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Comment from

[iPhone Dev Wiki Crack Prevention](http://iphonedevwiki.net/index.php/Crack_prevention): App Store binaries are signed by both their developer and Apple. This encrypts the binary so that decryption keys are needed in order to make the binary readable. When iOS executes the binary, the decryption keys are used to decrypt the binary into a readable state where it is then loaded into memory and executed. iOS can tell the encryption status of a binary via the cryptid structure member of LC\_ENCRYPTION\_INFO MachO load command. If cryptid is a non-zero value then the binary is encrypted.

'Cracking' works by letting the kernel decrypt the binary then siphoning the decrypted data into a new binary file, resigning, and repackaging. This will only work on jailbroken devices as codesignature validation has been removed. Resigning takes place because while the codesignature doesn't have to be valid thanks to the jailbreak, it does have to be in place unless you have AppSync or similar to disable codesignature checks.

More information at [Landon Fuller's blog](http://landonf.org/2009/02/index.html)

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# JavaScript

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[@jest/console@24.9.0](#)

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[@react-native-community/async-storage@1.7.1](#)

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[@react-native-community/cli-debugger-ui@3.0.0](#)

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[@react-navigation/core@3.5.2](#)

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[@react-navigation/native@3.7.3](#)

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[@sky-uk-ott/atlas-mobile-shared@3.0.1](#)

License type: Custom: <https://github.com/nvm-sh/nvm>

# atlas-mobile-shared

Shared JS Library for mobile apps NOWTV and Peacock.

## Requirements

- \* NodeJS >= v8.12.0
- \* npm >= v6.0.0

If you need to use different versions of node across different projects, use <https://github.com/nvm-sh/nvm> to install it.

## Development

1. Checkout a new branch based on `master`;
1. Run `npm install` to download all dependencies;
1. Make your code changes;
1. Run `npm run lint` to run the ES linter;
1. Run `npm test` to run all unit tests;
1. Run `npm run build` to transpile the source code and check for output errors;
1. Push branch to remote and create a Pull Request;



## ## Publishing

After a Pull Request is merged to `master` branch, you should run the `publish` job to update the `atlas-mobile-shared` package version and publish it in the NPM Registry.

To do so:

1. Go to jenkins job [atlas-mobile-shared-publish] (<http://ott-intl-mobile-ci.bskyb.com:8080/job/atlas-mobile-shared-publish/>)
1. Click `Build with Parameters`
1. Select which version to upgrade (see Versioning below)
1. Click `Build`

The job will update the `package.json` version using `npm version <SELECTED VERSION>`, build the project, run unit tests and then publish it, as a package, to the NPM registry.

## ### Versioning

In order to select the correct version (Major, minor, patch) when publishing your changes, adhere to [Semantic Versioning](<https://semver.org/>):

- \* MAJOR version when you make incompatible API changes,
- \* MINOR version when you add functionality in a backwards compatible manner, and
- \* PATCH version when you make backwards compatible bug fixes.

[@sky-uk-ott/client-lib-js-common-request@21.1.3](#)

License type: Custom: <http://code-gazer.developers.sky.com/badging/ownership/package/>

## ## client-lib-js-common-request

[![CodeGazer Ownership](<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-common-request>)](<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-common-request>)

## ### Purpose

- To wrap XMLHttpRequest in a promise API
- To create network requests that follow the [default resiliency policy](<https://developer.bskyb.com/wiki/display/OTTC/Default+HTTP+Resiliency+Policy>).

## ### Usage

Requests are wrapped in a promise, and all options apart from the URL are optional.

Basic GET request:

```
```javascript
import request from '@sky-uk-ott/client-lib-js-common-request';

request('http://example.com/example.json', {}).then(successCallback, failureCallback);
```
```

POST:

```
```javascript
request('http://example.com/create', { method: 'POST', body: '[ "body JSON"]' }).then(successCallback, failureCallback);
```
```

Specifying headers:

```
```javascript
request('http://example.com/create', {
  method: 'POST',
  body: '[ "body JSON"]',
  headers: { 'content-type': 'application/json' }
}).then(successCallback, failureCallback);
```

```

Using a different resiliency strategy (DEFAULT, CHEAP, or EXPENSIVE):

```
```javascript
request('http://example.com/example.json', { resiliencyStrategy:
'CHEAP' }).then(successCallback, failureCallback);
```
```

Overriding just the timeout:

```
```javascript
request('http://example.com/example.json', { timeout: 9000 }).then(successCallback,
failureCallback);
```
```

It's also possible to manually instantiate the class.

```
```javascript
import { Request } from '@sky-uk-ott/client-lib-js-common-request';

new Promise((resolve, reject) => {
  const options = {};
  options.resolve = resolve;
  options.reject = reject;

  const request = new Request(url, options, req);
  request.send();
});
```
```

[@sky-uk-ott/client-lib-js-common-skyid@23.2.2](#)

License type: Custom: <http://code-gazer.developers.sky.com/badging/ownership/package/>

# client-lib-js-common-skyid

[![CodeGazer Ownership](<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-common-skyid>)](<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-common-skyid>)

Common functionality and components for working with the Sky ID APIs.

## Usage

### Adding dependency

```

```
npm install --save --exact @sky-uk-ott/client-lib-js-common-skyid
```
```

For this to work your machine will need an npm token key that can access `sky-uk-ott` packages on npm. You'll also need to ensure you CI machines also have an npm token!

### Rango Hostnames

#### NowTV

- \* Integration: `<https://n05app.id.bskyb.com>` or `<https://uiapi.id.func.prod.nowtv.com>`
- \* Staging: `<https://uiapi.id.stage.nowtv.com>`
- \* Production: `<https://uiapi.id.nowtv.com>`

### Dealing with CORS

The integration and staging hostnames allow CORS requests from the `localhost` domain.

This makes using them in your local development environment simple.

The production hostname does not work with `localhost`, so it is difficult to test locally!

## Contributing

#### `npm run build`

This runs Babel over the files within the `src/` folder and compiles those files on each save to the `lib/`.

#### `npm test`

Runs the unit tests.

[@sky-uk-ott/client-lib-js-ott-bookmark@8.7.6](https://github.com/sky-uk/client-lib-js-ott-bookmark@8.7.6)

License type: Custom: <http://slwap01-v01.bookmarking-docs.i2.ovp.bskyb.com/swagger>

# client-lib-js-ott-bookmark

This library is responsible for providing an interface for Bookmark API. This library has no mocked data (only for unit tests) and no PCMS references.

## Bookmark swagger

<http://slwap01-v01.bookmarking-docs.i2.ovp.bskyb.com/swagger>

## Contributing

For information on the process of contributing to this library, please read the [Contributing to shared libraries guide] (<https://github.com/sky-uk/client-lib/wiki/Contributing-to-shared-libraries>)

## Setup

npm install

## Usage

### Unit tests

#### `npm run test:watch`

### Dependencies

ovpTokenService (e.g - <https://github.com/sky-uk/client-lib-js-ott/tree/master/packages/client-lib-js-ott-ovp>)

ottCmsService (e.g - <https://github.com/sky-uk/client-lib-js-ott/tree/master/packages/client-lib-js-ott-cms>)

### Example usage

...

```
import OttBookmarkService from 'client-lib-js-ott-bookmark/lib/services/ott-bookmark-service';
```

```
// Initialize service
```

```
const options = {
  endpoint: 'endpoint',
  provider: 'provide',
  device: 'device',
  platform: 'platform',
  territory: 'territory',
  proposition: 'proposition'
});
```

```
const request = ...; // Signed request
```

```
const bookmarkService = new OttBookmarkService(options, { request, ovpTokenService,
```

```
cache, bookmarkModifier }));
```

You can enhance / modify bookmarks returned by the service by providing bookmarkModifier function. It should return promise resolving enhanced / modified bookmarks.

```
// Get bookmarks
const shouldForceRefreshBookmarks = true;
bookmarkService.getBookmarks(shouldForceRefreshBookmarks).then( ... );
```

```
// Set a bookmark
bookmarkService.setBookmark('valid_uuid').then( ... );
```

```
...
```

```
### Enhancing bookmarks with PCMS data
```

```
...
```

```
import ottCmsService from 'ottCmsService';
import { ottCmsDataService } from './helpers/bookmark-helper';
```

```
const ottModifier = ottCmsDataService(ottCmsService, '/endpoint', 500);
const bookmarkService = new OttBookmarkService(options, { request, ovpTokenService,
cache, bookmarkModifier: ottModifier });
```

```
bookmarkService.getBookmarks(true).then( ... );
...
```

```
### Sample data
```

```
...
```

```
//Get bookmarks sample data
```

```
Status: 2xx
```

```
[
  {
    "links": {},
    "id": "id",
    "type": "ASSET/EPISODE",
    "attributes": {
      "title": "title",
      "year": 2040,
      "programmeUuid": "programmeUuid",
      "sectionNavigation": "ENTERTAINMENT",
      "seasonName": "seasonName",
      ....
      ....
    }
  },
  {
    "links": {},
    "id": "id",
    "type": "ASSET/MOVIE",
    "attributes": {
      "title": "title",
      "year": 2040,
      "programmeUuid": "programmeUuid",
      "sectionNavigation": "MOVIES",
      "rating": "5",
      ....
      ....
    }
  }
]
```

```
Status: 403
```

```
{
  "errorCode": "OVP_00306",
  "description": "Security failure."
}
```

```
}

//Set bookmark sample data
Status: 204
no content

Status: 403
{
  "errorCode": "OVP_00306",
  "description": "Security failure."
}

...
```

[@sky-uk-ott/client-lib-js-ott-cms@21.10.5](#)

License type: Custom: [http://code-gazer.developers.sky.com/badging/ownership/package/](http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-cms)

# client-lib-js-ott-cms

[![CodeGazer Ownership](<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-cms>)] (<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-cms>)

This library is responsible for providing catalogue data to consuming clients through the PCMS. This library does not adapt data, but it does provide resiliency patterns such as filtering out catalogue items that do not contain essential information.

## Slack channel  
`#client-lib`

## Contributing  
For information on the process of contributing to this library, please read the [Contributing to shared libraries guide](<https://github.com/sky-uk/client-lib/wiki/Contributing-to-shared-libraries>)

## Running the tests  
npm install  
npm test

## Examples

```
...

import { ottCmsService } from '@sky-uk-ott/client-lib-js-ott-cms';
import isomorphicRequest from 'atlas-client-sdk-js/lib/utils/isomorphic-request';

ottCmsService.createInstance({ request: isomorphicRequest });

ottCmsService().getNode({
  url: configuration.endpoints.pcms.page,
  id: slug
  params: {
    represent: '(items)'
  }
}, {
  device: 'LG',
  language: 'en',
  platform: 'TV'
  proposition: 'NOWTV'
  territory: 'IE'
}, {
  'X-SkyOTT-Bucket': 'bucketId'
})
...
```

You can also now pass a `Logger` interface to the CMS like

```
...  
ottCmsService.createInstance({ request: isomorphicRequest, logger: CustomLogger});  
...
```

The logger interface has a single accepted method `sendMessage` which takes a string, and an object containing additional tags.

[@sky-uk-ott/client-lib-js-ott-common@3.4.8](https://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-common@3.4.8)

License type: Custom: [http://code-gazer.developers.sky.com/badging/ownership/package/](http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-common)

# client-lib-js-ott-common

[[CodeGazer Ownership](<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-common>)](<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-common>)

## Purpose

This library contains some generic classes that help the rapid development of all OTT shared libraries.

Currently includes:

- \* Cache Manager
- \* JWT Request Decorator
- \* Proxy Request Decorator
- \* Simplified Request Decorator
- \* Default Logging Service
- \* Default Time Service
- \* OTT Request Utils
- \* OTT Response Utils
- \* OTT Request Builder

## Usage

### Cache Manager

The cache manager is used to execute requests in resilient way.

```
```javascript  
const MILLISECONDS_IN_HOUR = 3600000;  
const MILLISECONDS_IN_12HOURS = 43200000;  
  
const cache = inMemoryCache();  
const cacheKey = 'cache_key';  
  
const manager cacheManager({  
  cache,  
  durationUntilInvalidatedAsCache: MILLISECONDS_IN_HOUR,  
  durationUntilInvalidatedAsFallback: MILLISECONDS_IN_12HOURS  
});  
  
function myFancyFetchingFunction() {  
  ...  
}  
  
manager.executeRequest(myFancyFetchingFunction, cacheKey)  
  .then(doSomethingWithResult);  
```
```

### Request Decorators

These are reusable request decorators which can be used accross multiple propositions.

They are functions that can accept the same parameters as the normal request and can do some special logic dependent on the specific requirements.

#### #### JWT Request Decorator

The decorator decorates the request with a hardcoded JWT-CAST header used for non-production environments. Internally this JWT header contains the Chromecast deviceId for testing purposes (when obtaining a user token without sending a deviceId).

```
```javascript
const jwtRequestDecoratorBaked = jwtRequestDecorator({
  request: isomorphicRequest
});

const myFancyFetchingFunctionBaked = myFancyFetchingFunction({
  request: jwtRequestDecoratorBaked.jwtRequest
});
```
```

#### #### Proxy Request Decorator

The decorator creates a proxy request and proxies it to a signing proxy instead of calling the original endpoint. It is initialised with a proxy hostname and path.

```
```javascript
const proxyHostname = 'https://tv.int-trial.nowtv.com';
const proxyPath = '/ovp-request-proxy';

const proxyRequestDecoratorBaked = proxyRequestDecorator({
  request: isomorphicRequest,
  proxyHostname,
  proxyPath
});

const myFancyFetchingFunctionBaked = myFancyFetchingFunction({
  request: proxyRequestDecoratorBaked.proxyRequest
});
```
```

#### #### Simplified Request Decorator

The decorator unifies and adapts a regular request responses to a simplified object that is expected by the Cache Manager.

```
```javascript
const simplifiedRequestDecoratorBaked = simplifiedRequestDecorator({ request });

const myFancyFetchingFunctionBaked = myFancyFetchingFunction({
  request: simplifiedRequestDecoratorBaked.simplifiedRequest
});
```
```

#### ### Default Logging Service

A lightweight simple service that implements the logging service interface and provides a default logging implementation - logging to the console.

```
```javascript
const loggingServiceBaked = loggingService();

loggingServiceBaked.logError(e)
  .then(doSomethingElse);
```
```

#### ### Default Time Service

A lightweight simple service that implements the time service interface and provides it's default functionality.

```
```javascript
const timeServiceBaked = timeService();

timeServiceBaked.getUnixTime(e)
  .then(signTheRequestUsingTheUnixTime);
```
```

### ### OTT Request Utils

Some utils that can be used when you create a request to an OTT service. Avoid using the utility directly as there is an OTT Request Builder you can use instead.

```
```javascript
const headers = buildOttHeaders({
  provider: 'SKY',
  proposition: 'NOWTV',
  territory: 'IE',
  platform: 'CHROMECAST',
  device: 'IPSETTOPBOX',
  language: 'en',
  addOttAgentHeader: true,
  country: 'IE',
  parentalPinOverride: true,
  userToken: 'user-token',
  contentType: 'application/json',
  acceptContentType: 'application/json'
});

request(url, headers);
```
```

### ### OTT Request Builder

This is the core function to be used when you want to create a fetching function to any OTT service.

```
```javascript
const ottRequestBuilderBaked = ottRequestBuilder({
  request: isomorphicRequest,
  timeService: timeServiceBaked,
  hmacSignatureService: USE_SIGNING_PROXY ? undefined : hmacSignatureServiceBaked,
  loggingService: loggingServiceBaked
});

const requestBaked = ottRequestBuilderBaked.ottSignedRequest({
  hmacClientName: 'IE-NOWTV-TVDEVICES-v1',
  hmacAlgoVersion: '1.0',
  method: 'PUT',
  url: 'https://your.url.com',
  timeouts: [8000, 10000],
  provider: 'SKY',
  proposition: 'NOWTV',
  territory: 'IE',
  platform: 'CHROMECAST',
  device: 'IPSETTOPBOX',
  language: 'en',
  addOttAgentHeader: true,
  country: 'IE',
  parentalPinOverride: true,
  userToken: 'user-token',
  contentType: 'application/json',
  acceptContentType: 'application/json',
});
```



```

        payload: '{ yourPayload: \'123\' }'
    });

    requestBaked()
        .then(doSomethingWithResult);
    ...

```

[@sky-uk-ott/client-lib-js-ott-common@3.7.1](https://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-common@3.7.1)

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# client-lib-js-ott-common

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- \* OTT Request Builder

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### Cache Manager

The cache manager is used to execute requests in resilient way.

```

```javascript
const MILLISECONDS_IN_HOUR = 3600000;
const MILLISECONDS_IN_12HOURS = 43200000;

const cache = inMemoryCache();
const cacheKey = 'cache_key';

const manager cacheManager({
    cache,
    durationUntilInvalidatedAsCache: MILLISECONDS_IN_HOUR,
    durationUntilInvalidatedAsFallback: MILLISECONDS_IN_12HOURS
});

function myFancyFetchingFunction() {
    ...
}

manager.executeRequest(myFancyFetchingFunction, cacheKey)
    .then(doSomethingWithResult);
```

```

### Request Decorators

These are reusable request decorators which can be used accross multiple propositions. They are functions that can accepts the same parameters as the normal request and can

do some special logic dependent on the specific requirements.

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The decorator decorates the request with a hardcoded JWT-CAST header used for non-production environments. Internally this JWT header contains the Chromecast deviceId for testing purposes (when obtaining a user token without sending a deviceId).

```
```javascript
const jwtRequestDecoratorBaked = jwtRequestDecorator({
  request: isomorphicRequest
});

const myFancyFetchingFunctionBaked = myFancyFetchingFunction({
  request: jwtRequestDecoratorBaked.jwtRequest
});
```
```

#### #### Proxy Request Decorator

The decorator creates a proxy request and proxies it to a signing proxy instead of calling the original endpoint. It is initialised with a proxy hostname and path.

```
```javascript
const proxyHostname = 'https://tv.int-trial.nowtv.com';
const proxyPath = '/ovp-request-proxy';

const proxyRequestDecoratorBaked = proxyRequestDecorator({
  request: isomorphicRequest,
  proxyHostname,
  proxyPath
});

const myFancyFetchingFunctionBaked = myFancyFetchingFunction({
  request: proxyRequestDecoratorBaked.proxyRequest
});
```
```

#### #### Simplified Request Decorator

The decorator unifies and adapts a regular request responses to a simplified object that is expected by the Cache Manager.

```
```javascript
const simplifiedRequestDecoratorBaked = simplifiedRequestDecorator({ request });

const myFancyFetchingFunctionBaked = myFancyFetchingFunction({
  request: simplifiedRequestDecoratorBaked.simplifiedRequest
});
```
```

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A lightweight simple service that implements the logging service interface and provides a default logging implementation - logging to the console.

```
```javascript
const loggingServiceBaked = loggingService();

loggingServiceBaked.logError(e)
  .then(doSomethingElse);
```
```

#### ### Default Time Service

A lightweight simple service that implements the time service interface and provides it's default functionality.

```
```javascript
const timeServiceBaked = timeService();

timeServiceBaked.getUnixTime(e)
  .then(signTheRequestUsingTheUnixTime);
```
```

### ### OTT Request Utils

Some utils that can be used when you create a request to an OTT service. Avoid using the utility directly as there is an OTT Request Builder you can use instead.

```
```javascript
const headers = buildOttHeaders({
  provider: 'SKY',
  proposition: 'NOWTV',
  territory: 'IE',
  platform: 'CHROMECAST',
  device: 'IPSETTOPBOX',
  language: 'en',
  addOttAgentHeader: true,
  country: 'IE',
  parentalPinOverride: true,
  userToken: 'user-token',
  contentType: 'application/json',
  acceptContentType: 'application/json'
});

request(url, headers);
```
```

### ### OTT Request Builder

This is the core function to be used when you want to create a fetching function to any OTT service.

```
```javascript
const ottRequestBuilderBaked = ottRequestBuilder({
  request: isomorphicRequest,
  timeService: timeServiceBaked,
  hmacSignatureService: USE_SIGNING_PROXY ? undefined : hmacSignatureServiceBaked,
  loggingService: loggingServiceBaked
});

const requestBaked = ottRequestBuilderBaked.ottSignedRequest({
  hmacClientName: 'IE-NOWTV-TVDEVICES-v1',
  hmacAlgoVersion: '1.0',
  method: 'PUT',
  url: 'https://your.url.com',
  timeouts: [8000, 10000],
  provider: 'SKY',
  proposition: 'NOWTV',
  territory: 'IE',
  platform: 'CHROMECAST',
  device: 'IPSETTOPBOX',
  language: 'en',
  addOttAgentHeader: true,
  country: 'IE',
  parentalPinOverride: true,
  userToken: 'user-token',
  contentType: 'application/json',
  acceptContentType: 'application/json',
  payload: '{ yourPayload: \'123\' }'
});
```

```

    });

    requestBaked()
      .then(doSomethingWithResult);
    ...

@sky-uk-ott/client-lib-js-ott-common@3.8.1
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# client-lib-js-ott-common

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* Simplified Request Decorator
* Default Logging Service
* Default Time Service
* OTT Request Utils
* OTT Response Utils
* OTT Request Builder

## Usage

### Cache Manager

The cache manager is used to execute requests in resilient way.

```javascript
const MILLISECONDS_IN_HOUR = 3600000;
const MILLISECONDS_IN_12HOURS = 43200000;

const cache = inMemoryCache();
const cacheKey = 'cache_key';

const manager cacheManager({
  cache,
  durationUntilInvalidatedAsCache: MILLISECONDS_IN_HOUR,
  durationUntilInvalidatedAsFallback: MILLISECONDS_IN_12HOURS
});

function myFancyFetchingFunction() {
  ...
}

manager.executeRequest(myFancyFetchingFunction, cacheKey)
  .then(doSomethingWithResult);
```

### Request Decorators

These are reusable request decorators which can be used accross multiple propositions. They are functions that can accepts the same parameters as the normal request and can do some special logic dependent on the specific requirements.

```

#### #### JWT Request Decorator

The decorator decorates the request with a hardcoded JWT-CAST header used for non-production environments. Internally this JWT header contains the Chromecast deviceId for testing purposes (when obtaining a user token without sending a deviceId).

```
```javascript
const jwtRequestDecoratorBaked = jwtRequestDecorator({
  request: isomorphicRequest
});

const myFancyFetchingFunctionBaked = myFancyFetchingFunction({
  request: jwtRequestDecoratorBaked.jwtRequest
});
```
```

#### #### Proxy Request Decorator

The decorator creates a proxy request and proxies it to a signing proxy instead of calling the original endpoint. It is initialised with a proxy hostname and path.

```
```javascript
const proxyHostname = 'https://tv.int-trial.nowtv.com';
const proxyPath = '/ovp-request-proxy';

const proxyRequestDecoratorBaked = proxyRequestDecorator({
  request: isomorphicRequest,
  proxyHostname,
  proxyPath
});

const myFancyFetchingFunctionBaked = myFancyFetchingFunction({
  request: proxyRequestDecoratorBaked.proxyRequest
});
```
```

#### #### Simplified Request Decorator

The decorator unifies and adapts a regular request responses to a simplified object that is expected by the Cache Manager.

```
```javascript
const simplifiedRequestDecoratorBaked = simplifiedRequestDecorator({ request });

const myFancyFetchingFunctionBaked = myFancyFetchingFunction({
  request: simplifiedRequestDecoratorBaked.simplifiedRequest
});
```
```

#### ### Default Logging Service

A lightweight simple service that implements the logging service interface and provides a default logging implementation - logging to the console.

```
```javascript
const loggingServiceBaked = loggingService();

loggingServiceBaked.logError(e)
  .then(doSomethingElse);
```
```

#### ### Default Time Service

A lightweight simple service that implements the time service interface and provides

it's default functionality.

```
```javascript
const timeServiceBaked = timeService();

timeServiceBaked.getUnixTime(e)
  .then(signTheRequestUsingTheUnixTime);
```
```

### ### OTT Request Utils

Some utils that can be used when you create a request to an OTT service. Avoid using the utility directly as there is an OTT Request Builder you can use instead.

```
```javascript
const headers = buildOttHeaders({
  provider: 'SKY',
  proposition: 'NOWTV',
  territory: 'IE',
  platform: 'CHROMECAST',
  device: 'IPSETTOPBOX',
  language: 'en',
  addOttAgentHeader: true,
  country: 'IE',
  parentalPinOverride: true,
  userToken: 'user-token',
  contentType: 'application/json',
  acceptContentType: 'application/json'
});

request(url, headers);
```
```

### ### OTT Request Builder

This is the core function to be used when you want to create a fetching function to any OTT service.

```
```javascript
const ottRequestBuilderBaked = ottRequestBuilder({
  request: isomorphicRequest,
  timeService: timeServiceBaked,
  hmacSignatureService: USE_SIGNING_PROXY ? undefined : hmacSignatureServiceBaked,
  loggingService: loggingServiceBaked
});

const requestBaked = ottRequestBuilderBaked.ottSignedRequest({
  hmacClientName: 'IE-NOWTV-TVDEVICES-v1',
  hmacAlgoVersion: '1.0',
  method: 'PUT',
  url: 'https://your.url.com',
  timeouts: [8000, 10000],
  provider: 'SKY',
  proposition: 'NOWTV',
  territory: 'IE',
  platform: 'CHROMECAST',
  device: 'IPSETTOPBOX',
  language: 'en',
  addOttAgentHeader: true,
  country: 'IE',
  parentalPinOverride: true,
  userToken: 'user-token',
  contentType: 'application/json',
  acceptContentType: 'application/json',
  payload: '{ yourPayload: \'123\' }'
});
```
```

```
requestBaked()
    .then(doSomethingWithResult);
...
```

@sky-uk-ott/client-lib-js-ott-dap@1.9.0

License type: UNKNOWN

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@sky-uk-ott/client-lib-js-ott-in-product-notifications@1.1.1

License type: UNKNOWN

LICENSE FILE NOT PROVIDED

@sky-uk-ott/client-lib-js-ott-labelling@17.4.1

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# client-lib-js-ott-labelling

```
[[CodeGazer Ownership](http://code-gazer.developers.sky.com/badging/ownership/package/
@sky-uk-ott/client-lib-js-ott-labelling)](http://code-gazer.developers.sky.com/badging-
redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-labelling)
```

This library is responsible for retrieving labels for OTT clients from the labelling service (currently PCMS) for a given proposition/territory/device/language.

The translation of labels is using [Polyglot](<https://github.com/airbnb/polyglot.js>) created by Airbnb. All labels should adhere to Airbnb's format

## Example usage

### Labelling Service

```
```js
import { LabellingService } from '@sky-uk-ott/client-lib-js-ott-labelling';
import { request } from 'client-lib-js-common-request';
```

```
const onMissingLabel = (key) => {
  // do something, e.g. log error
};
```

```
const fallbackLabels = {
  'missing': 'Backup label'
};
```

```
const labellingService = new LabellingService({
  request,
  onMissingLabel,
  fallbackLabels
});
```

```
// load the labels
labellingService.loadLabels({ endpoint: '/labels' }, {
  device: 'device',
  language: 'en',
  proposition: 'proposition',
  platform: 'platform',
  territory: 'territory'
})
```

```

.catch(err => {
  // handle failed network request
});

// translate label
labellingService.translateLabel('greeting', { name: 'Bob' });
// e.g. when labels = { greeting: 'Hi %{name}' } returns 'Hi Bob'

// translate label which does not exist, but provide a fallback
labellingService.translateLabel('missing', { fallback: 'Oops' });
// calls onMissingLabel then returns 'Oops'

// translate label which does not exist, but exists in fallbackLabels
labellingService.translateLabel('missing');
// calls onMissingLabel then returns 'Backup label'
```

### Supported Languages Service

```js
import { SupportedLanguagesService } from '@sky-uk-ott/client-lib-js-ott-labelling';
import { request } from 'client-lib-js-common-request';

const supportedLanguagesService = new SupportedLanguagesService({
  device: 'device',
  endpoint: 'endpoint',
  proposition: 'proposition',
  platform: 'platform',
  territory: 'territory'
}, {
  request
});

// load the supported languages
supportedLanguagesService.loadSupportedLanguages()
  .then((supportedLanguages) => { /* ['es', 'en'] */ });
```

```

[@sky-uk-ott/client-lib-js-ott-mvdp@1.2.0](#)

License type: Custom: <http://code-gazer.developers.sky.com/badging/ownership/package/>

# client-lib-js-ott-mvdp

[[CodeGazer Ownership](<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-mvdp>)] (<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-mvdp>)

Common functionality for working with the MVPD APIs.

## Usage

### Adding dependency

```

```
npm install --save --exact @sky-uk-ott/client-lib-js-ott-mvdp
```

```

For this to work your machine will need an npm token key that can access `sky-uk-ott` packages on npm. You'll also need to ensure you CI machines also have an npm token!

### Hostnames

#### Adobe



```
* Staging: `https://api.auth-staging.adobe.com`
* Production: `https://api.auth.adobe.com`
```

## ## Contributing

### #### `npm run build`

This runs Babel over the files within the `src/` folder and compiles those files on each save to the `lib/`.

### #### `npm test`

Runs the unit tests.

[@sky-uk-ott/client-lib-js-ott-mvpd@1.5.1](#)

License type: Custom: <http://code-gazer.developers.sky.com/badging/ownership/package/>

# client-lib-js-ott-mvpd

[[CodeGazer Ownership] (<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-mvpd>)] (<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-mvpd>)

Common functionality for working with the MVPD APIs.

## ## Usage

### ### Adding dependency

```

```
npm install --save --exact @sky-uk-ott/client-lib-js-ott-mvpd
```

```

For this to work your machine will need an npm token key that can access `sky-uk-ott` packages on npm. You'll also need to ensure you CI machines also have an npm token!

### ### Hostnames

### #### Adobe

```
* Staging: `https://api.auth-staging.adobe.com`
* Production: `https://api.auth.adobe.com`
```

## ## Contributing

### #### `npm run build`

This runs Babel over the files within the `src/` folder and compiles those files on each save to the `lib/`.

### #### `npm test`

Runs the unit tests.

[@sky-uk-ott/client-lib-js-ott-mytv@5.4.5](#)

License type: Custom: <http://code-gazer.developers.sky.com/badging/ownership/package/>

# client-lib-js-ott-mytv

[[CodeGazer Ownership] (<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-mytv>)] (<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-mytv>)

## ## Contributing

For information on the process of contributing to this library, please read the [Contributing to shared libraries guide](https://github.com/sky-uk/client-lib/wiki/Contributing-to-shared-libraries)

Slack channel `#client-lib``

## ## Purpose

This library is responsible for providing an interface for the My TV Service API. It can be used to query `/continuewatching``, `/favourites/kids``, `/watchlist`` and `/recommendations`` endpoints, and return the results. It can also create, update and delete data for example on the user's watchlist.

This library also provides a client caching mechanism following the default resiliency policy.

## ### Development

``npm run dev`` to compile the code

``npm test`` to run the tests

## ## Consumption

```

```
import { request } from 'client-lib-js-common-request';
import { OVPTokenService } from '@sky-uk-ott/client-lib-js-ott-ovp';
import { AsyncStorage } from 'react-native';
import { ottMytvService } from '@sky-uk-ott/client-lib-js-ott-mytv';
```

```
//...SHMAC signed request
```

```
// Cache interface (e.g in memory cache, AsyncStorage or localStorage...) providing these methods.
```

```
const cache = {
  getValue: AsyncStorage.getItem,
  setValue: AsyncStorage.setItem,
  removeValue: AsyncStorage.removeItem
};
```

```
// This also returns a reference to the created service
```

```
ottMytvService.createInstance({
  request,
  ovpTokenService,
  cache
});
```

```
ottMytvService().getData({
  endpoint: 'http://mytv-e05.development.nowk8.bskyb.com/favourites/kids',
  device: 'COMPUTER',
  territory: 'IE',
  proposition: 'NOWTV',
  platform: 'PC',
  language: 'en',
  provider: 'NOWTV',
  timeouts: [20000, 30000],
  userId: '16610778'
});
```

```
ottMytvService().addData({
  endpoint: 'http://mytv-e05.development.nowk8.bskyb.com/watchlist',
  device: 'COMPUTER',
  territory: 'IE',
  proposition: 'NOWTV',
  platform: 'PC',
  language: 'en',
  provider: 'NOWTV',
```

```

    timeouts: [20000, 30000],
    path: 'optional_path_that_gets_appended_to_endpoint'
  });

ottMytvService().deleteData({
  endpoint: 'http://mytv-e05.development.nowk8.bskyb.com/watchlist',
  device: 'COMPUTER',
  territory: 'IE',
  proposition: 'NOWTV',
  platform: 'PC',
  language: 'en',
  provider: 'NOWTV',
  timeouts: [20000, 30000],
  path: 'optional_path_that_gets_appended_to_endpoint'
});
```

```

[@sky-uk-ott/client-lib-js-ott-ovp@54.5.1](#)

License type: Custom: <http://code-gazer.developers.sky.com/badging/ownership/package/>

# client-lib-js-ott-ovp

[![CodeGazer Ownership](<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-ovp>)](<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-ovp>)

Common functionality for working with OVP related services.

Currently includes:

- User Details Request Builder
- User Details Response Validator
- User Details Service
- ...etc

## Usage

### User Details Request Builder

The User Details Request Builder provides the consumer of this library with a request which can be used for fetching the User Details.

```

```javascript
const bakedTimeService = timeService();
const bakedLoggingService = loggingService();
const bakedHmacSignatureService = hmacSignatureService();
const userTokenCache = inMemoryCache();

// Create the OTT request builder
const bakedOttRequestBuilder = ottRequestBuilder({
  request: isomorphicRequest,
  timeService: bakedTimeService,
  hmacSignatureService: bakedHmacSignatureService,
  loggingService: bakedLoggingService
});

// Create the User Token request builder
const bakedUserTokenRequestBuilder = userTokenRequestBuilder({
  ottSignedRequest: bakedOttRequestBuilder.ottSignedRequest
});

// Create the User Token response validator
const bakedUserTokenResponseValidator = userTokenResponseValidator();

// Create the User Token service
const bakedUserTokenService = userTokenService({

```

```

    userTokenRequestBuilder: bakedUserTokenRequestBuilder,
    userTokenResponseValidator: bakedUserTokenResponseValidator,
    timeService: bakedTimeService,
    loggingService: bakedLoggingService
  });

// Create the User Details request builder
const bakedUserDetailsRequestBuilder = userDetailsRequestBuilder({
  ottSignedRequest: bakedOttRequestBuilder.ottSignedRequest,
  ottUserTokenRequest: bakedUserTokenService.ottUserTokenRequest
});

// Fetch the User Details
bakedUserDetailsRequestBuilder
  .getUserDetailsRequest(
    {
      hmacClientName: "IE-NOWTV-IOS-v1",
      hmacAlgoVersion: "1.0"
    },
    {
      getUserDetailsUrl: "https://p.sky.com/auth/users/me",
      getUserDetailsTimeouts: [8000, 10000],
      provider: "SKY",
      proposition: "NOWTV",
      territory: "IE",
      platform: "IOS",
      device: "MOBILE",
      language: "en"
    },
    {
      getUserTokenUrl: "https://p.sky.com/auth/tokens",
      getUserTokenTimeouts: [8000, 10000]
    },
    {
      deviceId: "PASS_THE_DEVICE_ID_FROM_DRM",
      authenticationToken: {
        scheme: "OAUTH",
        value: "PASS_THE_OAUTH_FOR_THE_USER"
      }
    },
    userTokenCache
  )
  .then(doSomethingAmazingWithTheGetUserDetailsResponse);
...

```

### ### User Details Response Validator

The User Details Response Validator can be used to validate the response after fetching the User Details in order to ensure that the data we get back is valid against the micro service specification.

```

```javascript
// Create the User Token response validator
const bakedUserTokenResponseValidator = userTokenResponseValidator();

// Create the User Details response validator
const bakedUserDetailsResponseValidator = userDetailsResponseValidator({
  userTokenResponseValidator: bakedUserTokenResponseValidator
});

const isValid =
bakedUserDetailsResponseValidator.isValidGetUserDetailsResponse(response);
...

```

### ### User Details Service

The User Details Service glues the fetching, validation and caching logic so the

consumer of this library will get the most out of the library directly using it. It handles logging of unexpected states and can be extended easily.

```
```javascript
const bakedTimeService = timeService();
const bakedLoggingService = loggingService();
const bakedHmacSignatureService = hmacSignatureService();
const userDetailsCache = inMemoryCache();
const userTokenCache = inMemoryCache();

// Create the OTT request builder
const bakedOttRequestBuilder = ottRequestBuilder({
  request: isomorphicRequest,
  timeService: bakedTimeService,
  hmacSignatureService: bakedHmacSignatureService,
  loggingService: bakedLoggingService
});

// Create the User Token request builder
const bakedUserTokenRequestBuilder = userTokenRequestBuilder({
  ottSignedRequest: bakedOttRequestBuilder.ottSignedRequest
});

// Create the User Token response validator
const bakedUserTokenResponseValidator = userTokenResponseValidator();
// Create the User Token service
const bakedUserTokenService = userTokenService({
  userTokenRequestBuilder: bakedUserTokenRequestBuilder,
  userTokenResponseValidator: bakedUserTokenResponseValidator,
  timeService: bakedTimeService,
  loggingService: bakedLoggingService
});

// Create the User Details request builder
const bakedUserDetailsRequestBuilder = userDetailsRequestBuilder({
  ottSignedRequest: bakedOttRequestBuilder.ottSignedRequest,
  ottUserTokenRequest: bakedUserTokenService.ottUserTokenRequest
});

// Create the User Details response validator
const bakedUserDetailsResponseValidator = userDetailsResponseValidator({
  userTokenResponseValidator: bakedUserTokenResponseValidator
});

// Create the User Details service
const bakedUserDetailsService = userDetailsService({
  userDetailsRequestBuilder: bakedUserDetailsRequestBuilder,
  userDetailsResponseValidator: bakedUserDetailsResponseValidator,
  timeService: bakedTimeService,
  loggingService: bakedLoggingService
});

// Get User Details
bakedUserService
  .getUserDetails(
    {
      hmacClientName: "IE-NOWTV-IOS-v1",
      hmacAlgoVersion: "1.0"
    },
    {
      getUserDetailsUrl: "https://p.sky.com/auth/users/me",
      getUserDetailsTimeouts: [8000, 10000],
      provider: "SKY",
      proposition: "NOWTV",
      territory: "IE",
      platform: "IOS",
      device: "MOBILE",
      language: "en"
    }
  ),
```

```

    {
      getUserTokenUrl: "https://p.sky.com/auth/tokens",
      getUserTokenTimeouts: [8000, 10000]
    },
    {
      deviceId: "PASS_THE_DEVICE_ID_FROM_DRM",
      authenticationToken: {
        scheme: "OAUTH",
        value: "PASS_THE_OAUTH_FOR_THE_USER"
      }
    },
    userDetailsCache,
    userTokenCache
  )
  .then(doSomethingAmazingWithTheGetUserDetailsResult);
...

```

### ### Playback Service

Methods for getting playout stream information. They return data that can be used with native device video playout APIs.

```

```js
import { PlaybackService } from "@sky-uk-ott/client-lib-js-ott-ovp";

const playbackService = PlaybackService.createInstance(
  {
    endpoints: {
      playback: {
        getShortformAsset: `${endpoints.playback.hostname}$
{endpoints.playback.shortform}`,
        getVODAsset: `${endpoints.playback.hostname}${endpoints.playback.vod}`,
        getLiveContent: `${endpoints.playback.hostname}${endpoints.playback.live}`
      }
    },
    territory,
    proposition,
    provider,
    thirdParties,
    ...deviceInfo
  },
  {
    request,
    ovpTokenService,
    parentalPinLockoutConfig: {
      // Client side PIN lockout
      duration: 600, // Duration of PIN lockout once incorrect max entries exceeded
      entries: 3, // Number of attempts allowed before PIN lockout
      localStorage // Devices localStorage
    }
  }
);

// For live content such as sports
playbackService.getLiveContent(serviceKey, parentalPin, passActivationObject);

// For video on demand such as movies and entertainment
playbackService.getVODAsset(contentId, parentalPin);

// For updating audio codec to be used
playbackService.setAudioCodec(audioCodec);

// For shortform content such as trailers
playbackService.getShortformAsset({ contentId, providerVariantId});
```

```

Wiki for playout request:

VOD <https://developer.bskyb.com/wiki/display/OVP/Play+VOD+Specification>

LIVE <https://developer.bskyb.com/wiki/display/OVP/Play+Live+--+NowTV>

### Credit Manager Service

...

```
CreditManagerService
  .getUserCredit()
  .then();
...
```

#### `API`

The library is to be used by the node-based as well as client-based services. The service takes:

- user's SSO or OAUTH token
- authentication type (SSO or OAUTH)
- proposition
- device platform
- device type

and returns a user OVP token used for media playback, user account authentication etc or an error.

The input parameters and potential errors are described here in detail: <https://developer.bskyb.com/wiki/pages/viewpage.action?pageId=42861483>

1. Calling via Node example. `ovpNodeService` below calls a node service ``atlas-web/server/middleware/ovp-token-node-service`` which in turn would call this library and return an OVP token back to the client. We do this on unsecure clients to obscure HMAC generation.

...

```
import { setCookie } from 'atlas-client-sdk-js/lib/services/cookie-service';
import cookieConstants from 'client-lib-js-common-skyid/lib/constants/cookie-constants';
import { default as ovpNodeService } from 'atlas-client-sdk-js/lib/services/ovp-service';
```

```
ovpNodeService(ssoToken).then((data) => {
  if (data.errorCode) {
    console.log('OVP service failed Error : ' + data.errorCode);
  } else if (data.userToken) {
    console.log('got an OVP user token: ' + data.userToken);
    setCookie(cookieConstants.OVT, data.userToken, {path: '/'});
  }
}, (error) => {
  console.log('Node service failed : ' + error);
});
...
```

2. Calling directly from the client example. Because `ovpTokenService()` below is shared and can be used in both node and browser-based environments, clients need to give it a suitable request module to use ``atlas-redux-utils/request``.

...

```
import { setCookie } from 'atlas-client-sdk-js/lib/services/cookie-service';
import authConstants from 'client-lib-js-ott-ovp/lib/constants/auth-constants';
import propositionConstants from 'client-lib-js-ott-ovp/lib/constants/proposition-constants';
import devicePlatformConstants from 'client-lib-js-ott-ovp/lib/constants/device-platform-constants';
import deviceTypeConstants from 'client-lib-js-ott-ovp/lib/constants/device-type-constants';
import { default as ovpTokenService } from 'client-lib-js-ott-ovp/lib/services/ovp-
```

```

token-service';
import { request } from 'atlas-redux-utils';

ovpTokenService(request, ssoToken, authConstants.SSO, propositionConstants.SKYPLUS,
devicePlatformConstants.MAC, deviceTypeConstants.COMPUTER).then((response) => {
  console.log('got an OVP user token: ' + response);
});
```

## Developing

### `npm install`

Install repo dependencies

#### `npm run build`

Build the ES5 lib version

#### `npm test`

Runs the unit tests

@sky-uk-ott/client-lib-js-ott-persona@6.4.8
License type: Custom: http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-persona)

# client-lib-js-ott-persona

[![CodeGazer Ownership](http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-persona)](http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-persona)

## Purpose

Client library for interacting with the Sky iD persona store. Useful for creating, updating and reading individual personas or a user's whole store with all their personas.

## Functions

### Get persona store
* `getPersonaStore()`

### Get individual persona
* `getPersona(personaId)`

### Create new persona
* `createPersona(newPersonaPayload)`

### Update individual persona
* `updatePersona(personaId, updatedPersonaPayload)`

## Usage

### Service Initialisation

```
/**
 * make sure to create a new instance of the service first
 */
const endpoints = {
  personaStore: {
    hostname: 'https://persona-store.sky.com',
    path: '/persona-store/personas',

```



```

    }
  };
  personaStore.createInstance(
  {
    endpoints,                // An object defining the hostname and endpoints to use
    territory: 'GB',          // X-SkyOTT-Territory value
    device: 'COMPUTER',       // X-SkyOTT-Device value
    platform: 'MAC',          // X-SkyOTT-Platform value
    proposition: 'SKYGO',     // X-SkyOTT-Proposition value
    provider: 'SKY',          // X-SkyOTT-Provider value
  },
  {
    timeouts                  // specify timeouts in the format [8000, 10000]
    request,                  // the request service to be used
    skyIdTokenService         // the skyId token service to be used
  })
  ...

```

### ### Service Usage

Once you have initialised the service you can retrieve the service as shown below:

```

personaStore().getPersona(...)

```

### ## Security note

Neither the persona store API or this library perform any validation or encoding on the contents of the `displayName` field. Clients using this library need to ensure that they will never send any potentially harmful strings in the `displayName` field, especially as this data could be shared amongst various systems.

### ## Developing

#### #### `npm install`

Install repo dependencies

#### #### `npm run clean`

Recursive delete of the `lib` folder

#### #### `npm run build`

Build the ES5 lib version

#### #### `npm run dev`

Same as `npm run build` but with a watch task associated with it

#### #### `npm test`

Runs the unit tests

#### #### `npm run test:watch`

Same as `npm test` but with a watch task associated with it

#### #### `npm run lint`

Runs the linter to detect any issues with code format

#### #### `npm run format`

Runs the linter and attempts to fix any issues with code format

[@sky-uk-ott/client-lib-js-ott-search@12.8.0](https://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-search@12.8.0)

License type: Custom: <http://code-gazer.developers.sky.com/badging/ownership/package/>

# client-lib-js-ott-search

[[[CodeGazer Ownership](<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-search>)]([http://code-gazer.developers.sky.com/badging-](http://code-gazer.developers.sky.com/badging/)

```
redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-search)
```

## ## Contributing

Slack channel `#client-lib``

## ## Purpose

This library is intended to handle search results for clients. It will query the provided search endpoint, and return the results, filtering out invalid UUIDs.

This library can also take in a `cmsClient`, and then use the UUIDs provided from search, to check for asset information, and filter out any expired assets in the process.

## ### Development

``npm run dev`` to compile the code

``npm test`` to run the tests

## ## Consumption

Without PCMS client:

```
...
import { ottSearchSuggestionsService } from '@sky-uk-ott/client-lib-js-ott-search';
import isomorphicRequest from 'atlas-client-sdk-js/lib/utils/isomorphic-request';

ottSearchSuggestionsService.createInstance({ request: isomorphicRequest });

ottSearchSuggestionsService().getSearchSuggestions({
  searchTerm,
  url: endpoints.search.hostname,
  timeouts: [1000,2000]
}, {
  territory,
  proposition,
  platform,
  device
})
...
```

### With PCMS client:

```
...
import { ottSearchSuggestionsService } from '@sky-uk-ott/client-lib-js-ott-search';
import isomorphicRequest from 'atlas-client-sdk-js/lib/utils/isomorphic-request';
import { ottCmsService } from 'client-lib-js-ott-cms';

ottCmsService.createInstance({ request: isomorphicRequest });
ottSearchSuggestionsService.createInstance({ request: isomorphicRequest , pcmsClient:
ottCmsService });

ottSearchSuggestionsService
  .getSearchSuggestionAssets(
    {
      searchTerm,
      url: 'searchHostname',
      cmsContentIdEndpoint: 'cmsContentIdEndpoint', // Endpoint to get nodes by
contentID
      cmsProviderSeriesIdEndpoint: 'cmsProviderSeriesIdEndpoint', // Endpoint to get
nodes by providerSeriesId
      cmsProviderVariantIdEndpoint: 'cmsProviderVariantIdEndpoint' // Endpoint to get
nodes by providerVariantId (advised to not use)
      retrievalLimit: 20, // How many to retrieve
      contentSegments: ['MOVIES', 'ENTERTAINMENT'], // content segments supported, used to
filter results from search directly
    }
  )
}
```

```

        exclusion: ['expired', 'future', 'shortform'] // asset types for ATOM to filter,
to remove expired content etc.
    },
    {
        territory: 'IE',
        proposition: 'NOWTV',
        platform: 'PC',
        device: 'COMPUTER',
        language: 'EN',
        pcmsNodeTimeouts: [1000, 2000],
        searchSuggestionsTimeouts: [1000, 2000]
    }
)
...

```

#### #### Filtering content:

Provide a parameter called `contentSegments` into the call, this is an array containing the content segments for the items you wish to query, you can use this to only return assets your client supports. `contentSegments: ['MOVIES', 'ENTERTAINMENT']` will only return assets from search that have a content segment of either `MOVIES` or `ENTERTAINMENT`

This will only return content matching those types. If omitted, all content will be provided!

#### #### Exclusions

You can provide an `exclusion` array, containing strings, into the `getSearchSuggestionAssets` call. This will be joined into a comma separated string, and appended on the requests to the CMS. This can be used to omit future episodes, expired content and short form content. `exclusion: ['expired', 'future']` will append omit expired and future content from the CMS results. You can also provide it in a comma separated string yourself such as `exclusion: 'expired, future'`

[@sky-uk-ott/client-lib-js-ott-time@6.6.8](https://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-time@6.6.8)

License type: Custom: <http://code-gazer.developers.sky.com/badging/ownership/package/>

```
# client-lib-js-ott-time
```

```

[![CodeGazer Ownership](http://code-gazer.developers.sky.com/badging/ownership/package/
@sky-uk-ott/client-lib-js-ott-time)](http://code-gazer.developers.sky.com/badging-
redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-time)

```

Shared library to manage Sky provided time information.

#### ### Time Service

```

```js
import ottTimeService from '@sky-uk-ott/client-lib-js-ott-time';
import request from 'client-lib-js-common-request';

const config = {
  endpoints: {
    timeService: 'https://init.sky.com'
  }
};

const timeService = ottTimeService.createInstance({
  request
});

// Get epoch time from the time service - e.g. 1470827746
timeService.getEpochTime(config).then(timestamp => {

```

```

    ...
  });

// Get local epoch time, offset by the stored value to match the time service's accurate
time
const timeStamp = timeService.getEpochTimeFromOffset();

// Get user's locale from the time service - e.g. GB
timeService.getLocale(config).then(countryCode => {
  ...
});
```

```

[@sky-uk-ott/client-lib-js-ott-utils@9.10.1](https://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-utils@9.10.1)

License type: Custom: <http://code-gazer.developers.sky.com/badging/ownership/package/>

# client-lib-js-ott-utils

[[[CodeGazer Ownership](<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-utils>)] (<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-utils>)

## Purpose

This library contains some utils used in our shared libraries. You should only add utils that are very generic and do not fit into any other client library, and should not be a client library in their own right.

Currently includes:

- \* Cookie manipulation functions
- \* URL parsing (for `document.location`)
- \* Browser mocking
- \* Merging PPT (provider proposition territory) based values

This library previously included some redux utils but these have been moved to <https://github.com/sky-uk/atlas-web-and-tv/tree/master/packages/atlas-redux-utils>

## Usage

### Error base class

You can use `OttError` as a base class for other errors. It accepts two arguments: an error message, or an object that contains options outside of the ECMAScript specification that we want to standardise. These additional options are currently `cause` (an error that you want to wrap), and `code` (an error code that you want to propagate).

#### Making a subclass of OttError

```

```javascript
import { OttError } from '@sky-uk-ott/client-lib-js-ott-utils';

export class PaymentError extends OttError {
  constructor(message, { cause, code }) {
    super(message, { cause, code });
    this.name = 'PaymentError';
  }
}
```

```

#### Using the subclass

```

```javascript

```

```

paymentApi
  .authoriseCard(options)
  .then(handleSuccessfulPayment)
  .catch(cause => {
    const paymentError = new PaymentError('Payment failed during authorisation',
{ cause, code: 'PAYMENT_AUTH_ERR_1' });
    console.error(paymentError);
    throw paymentError; // Throw or do whatever you need to with the error
  });
```

```

### ### Browser mocking

Everything that relies on the browser `window` object can be mocked because we use `getWindow` internally.

#### #### Example: Setting the hostname

Imagine you want to set the hostname in a test to fake the current browser URL. You can do this by getting the current `window` object and modifying the `document` property.

```

```javascript
import { Browser } from '@sky-uk-ott/client-lib-js-ott-utils';
const win = Browser.getWindow();
win.document.location.hostname = 'localhost';
```

```

#### #### Resetting the window object

Once your test has finished, you'll probably want to restore the mocked window to ensure consistency between tests. Use `resetFakeWindow` to do this.

```

```javascript
import { Browser } from '@sky-uk-ott/client-lib-js-ott-utils';
Browser.resetFakeWindow();
```

```

### ### Cookies

Some of our services need to set and delete cookies.

#### #### Set a cookie

Use `setCookie` to set a cookie based on a name and value. Include optional arguments for `expires`, `path`, and `domain`.

```

```javascript
import { Cookies } from '@sky-uk-ott/client-lib-js-ott-utils';

Cookies.set('chrisCookie', 12345, {
  domain: 'testDomain',
  expires: 'expiresNow'
});
```

```

#### #### Get a cookie

Use `Cookies.get` to get the value of a cookie.

```

```javascript
import { Cookies } from '@sky-uk-ott/client-lib-js-ott-utils';

Cookies.get('chrisCookie');
```

```

#### #### Delete a cookie

Use `remove` to remove a cookie. Include optional arguments for the path and domain. The domain will default to the current full hostname -- it's likely that you'll need to pass the partial "root domain" to successfully delete the cookies set by services like Sky ID.

```
```javascript
import { Cookies } from '@sky-uk-ott/client-lib-js-ott-utils';

Cookies.remove('chrisCookie');
Cookies.remove('anotherCookie', { domain: 'bskyb.com' });
```
```

### ### URL parsing

#### #### Get the current domain

This allows you to easily get the current hostname with the TLD included. For example, `localhost.id.bskyb.com` will be `bskyb.com`. This is because we set cookies based on the root domain rather than the subdomain where a given application may be running.

```
```javascript
import assert from 'assert';
import { Url } from '@sky-uk-ott/client-lib-js-ott-utils';

const currentDomain = Url.getDomain();
assert.equal(currentDomain, 'localhost');
```
```

### ### Composite Images

Some of our clients need to compose images so when requested only one image to travel through the wire. There is an Akamai Cloudlet and Pikel image service that can do the job.

#### #### Get Akamai Composite Image Url

This allows us to easily use the Akamai Image Cloudlet to compose images.

```
```javascript
import { CompositeImages } from '@sky-uk-ott/client-lib-js-ott-utils';

const compositeImageUrl = CompositeImages.getAkamaiImageCompositionUrl(
  'nowtv.com/rocks',
  { width: 100, height: 20, outputFormat: 'progressive-jpeg', outputQuality: 80 },
  [
    { imageUrl: 'imageWithoutDirection' },
    { imageUrl: 'imageWithNEDirection', direction: 'NE' },
    { imageUrl: 'imageWithSEDirection', direction: 'SE', x: 10, y: 10 },
    { imageUrl: 'imageWithNWDirection', direction: 'NW', x: 20, y: 30 },
    { imageUrl: 'imageWithSWDirection', direction: 'SW', y: 40, y: 50 }
  ]
);
```
```

### ### Merging PPT based values

Some of our clients need to define values based on the used PPT. One widely spread example are styles/colors, that can vary based on the app variant.

#### #### Get an object based on a PPT dependent one

This method receives an object and returns a new one with the corresponding values based on the current PPT.

```
```javascript
import { mergePPT } from '@sky-uk-ott/client-lib-js-ott-utils';

const provider = "CurrentProvider";
const proposition = "CurrentProposition";
```

```

const territory = "CurrentTerritory";

const originalValue = {
  WrongProvider: {
    value1: "wrongProviderValue1"
  },
  WrongProposition: {
    value1: "wrongPropositionValue1"
  },
  WrongProposition: {
    value1: "wrongTerritoryValue1"
  },
  CorrectProvider: {
    value1: "correctProviderValue1"
  }
  CorrectProposition: {
    CorrectTerritory: {
      value1: "correctPropositionTerritoryValue1"
    },
    default: {
      value2: "defaultPropositionValue2"
    }
  },
  default: {
    value2: "defaultValue2"
    value3: "defaultValue3"
  }
}

const parsedValue = mergePPT(provider, proposition, territory, struct);
...

```

In this case the parsed value will be

```

...
{
  value1: "correctPropositionTerritoryValue1",
  value2: "defaultPropositionValue2",
  value3: "defaultValue3"
}
...

```

This happens because the deeper the value is defined, the more relevant it is, so it overwrites any previously defined ones.

As seen in this very simple example, the method gives a lot of flexibility when defining values, allowing mix and match of different combinations and nesting of PPT's, as well as the possibility of defining defaults at any level.

Keep in mind that this method doesn't allow values to be Objects themselves.

[@sky-uk-ott/client-lib-js-ott-utils@9.11.1](https://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-utils@9.11.1)

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# client-lib-js-ott-utils

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## Purpose

This library contains some utils used in our shared libraries.  
You should only add utils that are very generic and do not fit into any other client

library, and should not be a client library in their own right.

Currently includes:

- \* Cookie manipulation functions
- \* URL parsing (for `document.location`)
- \* Browser mocking
- \* Merging PPT (provider proposition territory) based values

This library previously included some redux utils but these have been moved to <https://github.com/sky-uk/atlas-web-and-tv/tree/master/packages/atlas-redux-utils>

## Usage

### Error base class

You can use `OttError` as a base class for other errors. It accepts two arguments: an error message, or an object that contains options outside of the ECMAScript specification that we want to standardise. These additional options are currently `cause` (an error that you want to wrap), and `code` (an error code that you want to propagate).

#### Making a subclass of OttError

```
```javascript
import { OttError } from '@sky-uk-ott/client-lib-js-ott-utils';

export class PaymentError extends OttError {
  constructor(message, { cause, code }) {
    super(message, { cause, code });
    this.name = 'PaymentError';
  }
}
```
```

#### Using the subclass

```
```javascript
paymentApi
  .authoriseCard(options)
  .then(handleSuccessfulPayment)
  .catch(cause => {
    const paymentError = new PaymentError('Payment failed during authorisation',
{ cause, code: 'PAYMENT_AUTH_ERR_1' });
    console.error(paymentError);
    throw paymentError; // Throw or do whatever you need to with the error
  });
```
```

### Browser mocking

Everything that relies on the browser `window` object can be mocked because we use `getWindow` internally.

#### Example: Setting the hostname

Imagine you want to set the hostname in a test to fake the current browser URL. You can do this by getting the current `window` object and modifying the `document` property.

```
```javascript
import { Browser } from '@sky-uk-ott/client-lib-js-ott-utils';
const win = Browser.getWindow();
win.document.location.hostname = 'localhost';
```
```

#### Resetting the window object



Once your test has finished, you'll probably want to restore the mocked window to ensure consistency between tests. Use `resetFakeWindow` to do this.

```
```javascript
import { Browser } from '@sky-uk-ott/client-lib-js-ott-utils';
Browser.resetFakeWindow();
```
```

### ### Cookies

Some of our services need to set and delete cookies.

#### #### Set a cookie

Use `setCookie` to set a cookie based on a name and value. Include optional arguments for `expires`, `path`, and `domain`.

```
```javascript
import { Cookies } from '@sky-uk-ott/client-lib-js-ott-utils';

Cookies.set('chrisCookie', 12345, {
  domain: 'testDomain',
  expires: 'expiresNow'
});
```
```

#### #### Get a cookie

Use `Cookies.get` to get the value of a cookie.

```
```javascript
import { Cookies } from '@sky-uk-ott/client-lib-js-ott-utils';

Cookies.get('chrisCookie');
```

#### #### Delete a cookie

Use `remove` to remove a cookie. Include optional arguments for the path and domain. The domain will default to the current full hostname -- it's likely that you'll need to pass the partial "root domain" to successfully delete the cookies set by services like Sky ID.

```
```javascript
import { Cookies } from '@sky-uk-ott/client-lib-js-ott-utils';

Cookies.remove('chrisCookie');
Cookies.remove('anotherCookie', { domain: 'bskyb.com' });
```
```

### ### URL parsing

#### #### Get the current domain

This allows you to easily get the current hostname with the TLD included. For example, `localhost.id.bskyb.com` will be `bskyb.com`. This is because we set cookies based on the root domain rather than the subdomain where a given application may be running.

```
```javascript
import assert from 'assert';
import { Url } from '@sky-uk-ott/client-lib-js-ott-utils';

const currentDomain = Url.getDomain();
assert.equal(currentDomain, 'localhost');
```

### ### Composite Images

Some of our clients need to compose images so when requested only one image to travel through the wire. There is an Akamai Cloudlet and Pikel image service that can do the job.

#### #### Get Akamai Composite Image Url

This allows us to easily use the Akamai Image Cloudlet to compose images.

```
```javascript
import { CompositeImages } from '@sky-uk-ott/client-lib-js-ott-utils';

const compositeImageUrl = CompositeImages.getAkamaiImageCompositionUrl(
  'nowtv.com/rocks',
  { width: 100, height: 20, outputFormat: 'progressive-jpeg', outputQuality: 80 },
  [
    { imageUrl: 'imageWithoutDirection' },
    { imageUrl: 'imageWithNEDirection', direction: 'NE' },
    { imageUrl: 'imageWithSEDirection', direction: 'SE', x: 10, y: 10 },
    { imageUrl: 'imageWithNWDirection', direction: 'NW', x: 20, y: 30 },
    { imageUrl: 'imageWithSWDirection', direction: 'SW', y: 40, y: 50 }
  ]
);
```
```

#### ### Merging PPT based values

Some of our clients need to define values based on the used PPT. One widely spread example are styles/colors, that can vary based on the app variant.

#### #### Get an object based on a PPT dependent one

This method receives an object and returns a new one with the corresponding values based on the current PPT.

```
```javascript
import { mergePPT } from '@sky-uk-ott/client-lib-js-ott-utils';

const provider = "CurrentProvider";
const proposition = "CurrentProposition";
const territory = "CurrentTerritory";

const originalValue = {
  WrongProvider: {
    value1: "wrongProviderValue1"
  },
  WrongProposition: {
    value1: "wrongPropositionValue1"
  },
  WrongTerritory: {
    value1: "wrongTerritoryValue1"
  },
  CorrectProvider: {
    value1: "correctProviderValue1"
  },
  CorrectProposition: {
    CorrectTerritory: {
      value1: "correctPropositionTerritoryValue1"
    },
    default: {
      value2: "defaultPropositionValue2"
    }
  },
  default: {
    value2: "defaultValue2"
    value3: "defaultValue3"
  }
}
```
```

```
const parsedValue = mergePPT(provider, proposition, territory, struct);
```
```

In this case the parsed value will be

```
```
{
  value1: "correctPropositionTerritoryValue1",
  value2: "defaultPropositionValue2",
  value3: "defaultValue3"
}
```
```

This happens because the deeper the value is defined, the more relevant it is, so it overwrites any previously defined ones.

As seen in this very simple example, the method gives a lot of flexibility when defining values, allowing mix and match of different combinations and nesting of PPT's, as well as the possibility of defining defaults at any level.

Keep in mind that this method doesn't allow values to be Objects themselves.

[@sky-uk-ott/client-lib-js-ott-utils@9.6.4](#)

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# client-lib-js-ott-utils

[![CodeGazer Ownership](<http://code-gazer.developers.sky.com/badging/ownership/package/@sky-uk-ott/client-lib-js-ott-utils>)](<http://code-gazer.developers.sky.com/badging-redirect/ownership/package/@sky-uk-ott/client-lib-js-ott-utils>)

## Purpose

This library contains some utils used in our shared libraries. You should only add utils that are very generic and do not fit into any other client library, and should not be a client library in their own right.

Currently includes:

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- \* Browser mocking
- \* Merging PPT (provider proposition territory) based values

This library previously included some redux utils but these have been moved to <https://github.com/sky-uk/atlas-web-and-tv/tree/master/packages/atlas-redux-utils>

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### Error base class

You can use `OttError` as a base class for other errors. It accepts two arguments: an error message, or an object that contains options outside of the ECMAScript specification that we want to standardise. These additional options are currently `cause` (an error that you want to wrap), and `code` (an error code that you want to propagate).

#### Making a subclass of OttError

```
```javascript
import { OttError } from '@sky-uk-ott/client-lib-js-ott-utils';

export class PaymentError extends OttError {
  constructor(message, { cause, code }) {
```

```

    super(message, { cause, code });
    this.name = 'PaymentError';
  }
}
```

```

#### #### Using the subclass

```

```javascript
paymentApi
  .authoriseCard(options)
  .then(handleSuccessfulPayment)
  .catch(cause => {
    const paymentError = new PaymentError('Payment failed during authorisation',
{ cause, code: 'PAYMENT_AUTH_ERR_1' });
    console.error(paymentError);
    throw paymentError; // Throw or do whatever you need to with the error
  });
```

```

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Everything that relies on the browser `window` object can be mocked because we use `getWindow` internally.

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Imagine you want to set the hostname in a test to fake the current browser URL. You can do this by getting the current `window` object and modifying the `document` property.

```

```javascript
import { Browser } from '@sky-uk-ott/client-lib-js-ott-utils';
const win = Browser.getWindow();
win.document.location.hostname = 'localhost';
```

```

#### #### Resetting the window object

Once your test has finished, you'll probably want to restore the mocked window to ensure consistency between tests. Use `resetFakeWindow` to do this.

```

```javascript
import { Browser } from '@sky-uk-ott/client-lib-js-ott-utils';
Browser.resetFakeWindow();
```

```

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Some of our services need to set and delete cookies.

#### #### Set a cookie

Use `setCookie` to set a cookie based on a name and value. Include optional arguments for `expires`, `path`, and `domain`.

```

```javascript
import { Cookies } from '@sky-uk-ott/client-lib-js-ott-utils';

Cookies.set('chrisCookie', 12345, {
  domain: 'testDomain',
  expires: 'expiresNow'
});
```

```

#### #### Get a cookie

Use `Cookies.get` to get the value of a cookie.

```
```javascript
import { Cookies } from '@sky-uk-ott/client-lib-js-ott-utils';
```

```
Cookies.get('chrisCookie');
```
```

#### #### Delete a cookie

Use `remove` to remove a cookie. Include optional arguments for the path and domain. The domain will default to the current full hostname -- it's likely that you'll need to pass the partial "root domain" to successfully delete the cookies set by services like Sky ID.

```
```javascript
import { Cookies } from '@sky-uk-ott/client-lib-js-ott-utils';
```

```
Cookies.remove('chrisCookie');
Cookies.remove('anotherCookie', { domain: 'bskyb.com' });
```
```

#### ### URL parsing

##### #### Get the current domain

This allows you to easily get the current hostname with the TLD included. For example, `localhost.id.bskyb.com` will be `bskyb.com`. This is because we set cookies based on the root domain rather than the subdomain where a given application may be running.

```
```javascript
import assert from 'assert';
import { Url } from '@sky-uk-ott/client-lib-js-ott-utils';
```

```
const currentDomain = Url.getDomain();
assert.equal(currentDomain, 'localhost');
```
```

#### ### Composite Images

Some of our clients need to compose images so when requested only one image to travel through the wire. There is an Akamai Cloudlet and Pikel image service that can do the job.

##### #### Get Akamai Composite Image Url

This allows us to easily use the Akamai Image Cloudlet to compose images.

```
```javascript
import { CompositeImages } from '@sky-uk-ott/client-lib-js-ott-utils';

const compositeImageUrl = CompositeImages.getAkamaiImageCompositionUrl(
  'nowtv.com/rocks',
  { width: 100, height: 20, outputFormat: 'progressive-jpeg', outputQuality: 80 },
  [
    { imageUrl: 'imageWithoutDirection' },
    { imageUrl: 'imageWithNEDirection', direction: 'NE' },
    { imageUrl: 'imageWithSEDirection', direction: 'SE', x: 10, y: 10 },
    { imageUrl: 'imageWithNWDirection', direction: 'NW', x: 20, y: 30 },
    { imageUrl: 'imageWithSWDirection', direction: 'SW', y: 40, y: 50 }
  ]
);
```
```

#### ### Merging PPT based values

Some of our clients need to define values based on the used PPT. One widely spread example are styles/colors, that can vary based on the app variant.

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This method receives an object and returns a new one with the corresponding values based on the current PPT.

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```javascript
import { mergePPT } from '@sky-uk-ott/client-lib-js-ott-utils';

const provider = "CurrentProvider";
const proposition = "CurrentProposition";
const territory = "CurrentTerritory";

const originalValue = {
  WrongProvider: {
    value1: "wrongProviderValue1"
  },
  WrongProposition: {
    value1: "wrongPropositionValue1"
  },
  WrongTerritory: {
    value1: "wrongTerritoryValue1"
  },
  CorrectProvider: {
    value1: "correctProviderValue1"
  },
  CorrectProposition: {
    CorrectTerritory: {
      value1: "correctPropositionTerritoryValue1"
    },
    default: {
      value2: "defaultPropositionValue2"
    }
  },
  default: {
    value2: "defaultValue2"
    value3: "defaultValue3"
  }
}

const parsedValue = mergePPT(provider, proposition, territory, struct);
```
```

In this case the parsed value will be

```
```
{
  value1: "correctPropositionTerritoryValue1",
  value2: "defaultPropositionValue2",
  value3: "defaultValue3"
}
```
```

This happens because the deeper the value is defined, the more relevant it is, so it overwrites any previously defined ones.

As seen in this very simple example, the method gives a lot of flexibility when defining values, allowing mix and match of different combinations and nesting of PPT's, as well as the possibility of defining defaults at any level.

Keep in mind that this method doesn't allow values to be Objects themselves.

[@sky-uk-ott/ott-clients-redux@0.0.10](#)

License type: UNKNOWN

Clients Redux

=====

Shared Redux code for use in Clients Web, TV and You.i TV.  
Only code intended to be used across all of the above clients should be added to this package.

Usage  
-----

#### `yarn test`  
Runs the unit tests.

### `yarn test:watch`  
Runs unit test with file watch.

### `yarn test:debug`  
Runs unit test with debugger.

### `yarn lint`  
Runs eslint.

### `yarn format`  
Runs autofix for eslint.

[@sky-uk-ott/sky-store-kit@0.5.0](#)  
License type: MIT

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[@types/hammerjs@2.0.36](#)  
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[@types/istanbul-lib-coverage@2.0.1](#)  
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[@types/istanbul-lib-report@3.0.0](#)

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[@types/istanbul-reports@1.1.1](#)

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[@types/stack-utils@1.0.1](#)

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[@types/yargs-parser@15.0.0](#)

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[@types/yargs@13.0.8](#)

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[abbrev@1.1.1](#)

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[abort-controller@3.0.0](#)

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[absolute-path@0.0.0](#)

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[accepts@1.3.7](#)

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## agent-base@4.3.0

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agent-base

=====

```
### Turn a function into an [http.Agent][http.Agent] instance
[![Build Status](https://travis-ci.org/TooTallNate/node-agent-base.svg?branch=master)]
(https://travis-ci.org/TooTallNate/node-agent-base)
```

This module provides an `http.Agent` generator. That is, you pass it an async callback function, and it returns a new `http.Agent` instance that will invoke the given callback function when sending outbound HTTP requests.

#### Some subclasses:

Here's some more interesting uses of `agent-base`.  
Send a pull request to list yours!

- \* [`http-proxy-agent`][`http-proxy-agent`]: An HTTP(s) proxy `http.Agent` implementation for HTTP endpoints
- \* [`https-proxy-agent`][`https-proxy-agent`]: An HTTP(s) proxy `http.Agent` implementation for HTTPS endpoints
- \* [`pac-proxy-agent`][`pac-proxy-agent`]: A PAC file proxy `http.Agent` implementation for HTTP and HTTPS
- \* [`socks-proxy-agent`][`socks-proxy-agent`]: A SOCKS (v4a) proxy `http.Agent` implementation for HTTP and HTTPS

Installation

-----

Install with `npm`:

```
``` bash
$ npm install agent-base
```
```

## Example

-----

Here's a minimal example that creates a new `net.Socket` connection to the server for every HTTP request (i.e. the equivalent of `agent: false` option):

```
```js
var net = require('net');
var tls = require('tls');
var url = require('url');
var http = require('http');
var agent = require('agent-base');

var endpoint = 'http://nodejs.org/api/';
var parsed = url.parse(endpoint);

// This is the important part!
parsed.agent = agent(function (req, opts) {
  var socket;
  // `secureEndpoint` is true when using the https module
  if (opts.secureEndpoint) {
    socket = tls.connect(opts);
  } else {
    socket = net.connect(opts);
  }
  return socket;
});

// Everything else works just like normal...
http.get(parsed, function (res) {
  console.log('"response" event!', res.headers);
  res.pipe(process.stdout);
});
```
```

Returning a Promise or using an `async` function is also supported:

```
```js
agent(async function (req, opts) {
  await sleep(1000);
  // etc, etc
});
```
```

Return another `http.Agent` instance to "pass through" the responsibility for that HTTP request to that agent:

```
```js
agent(function (req, opts) {
  return opts.secureEndpoint ? https.globalAgent : http.globalAgent;
});
```
```

## API

---

`## Agent(Function callback[, Object options]) , Üí [http.Agent][[]`

Creates a base `http.Agent` that will execute the callback function `callback` for every HTTP request that it is used as the `agent` for. The callback function is responsible for creating a `stream.Duplex` instance of some kind that will be used as the underlying socket in the HTTP request.

The `options` object accepts the following properties:

- \* `timeout` - Number - Timeout for the `callback()` function in milliseconds. Defaults

to Infinity (optional).

The callback function should have the following signature:

```
### callback(http.ClientRequest req, Object options, Function cb) ,Üí undefined
```

The `ClientRequest` `req` can be accessed to read request headers and the path, etc. The `options` object contains the options passed to the `http.request()`/`https.request()` function call, and is formatted to be directly passed to `net.connect()`/`tls.connect()`, or however else you want a Socket to be created. Pass the created socket to the callback function `cb` once created, and the HTTP request will continue to proceed.

If the `https` module is used to invoke the HTTP request, then the `secureEndpoint` property on `options` will be set to `true`.

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```
[http-proxy-agent]: https://github.com/TooTallNate/node-http-proxy-agent
[https-proxy-agent]: https://github.com/TooTallNate/node-https-proxy-agent
[pac-proxy-agent]: https://github.com/TooTallNate/node-pac-proxy-agent
[socks-proxy-agent]: https://github.com/TooTallNate/node-socks-proxy-agent
[http.Agent]: https://nodejs.org/api/http.html#http_class_http_agent
```

[ajv@6.11.0](#)

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`ansi-colors@1.1.0`

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`ansi-cyan@0.1.1`

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## ansi-escapes@3.2.0

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## ansi-fragments@0.2.1

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# ansi-fragments

```
[![Version][version]][package]
```

```
[![PRs Welcome][prs-welcome-badge]][prs-welcome]
```

```
[![MIT License][license-badge]][license]
```

```
[![Chat][chat-badge]][chat]
```

```
[![Code of Conduct][coc-badge]][coc]
```

A tiny library with builders to help making logs/CLI pretty with a nice DX.

```
- [ansi-fragments] (#ansi-fragments)
- [Installation] (#installation)
- [Usage] (#usage)
- [API] (#api)
  - [`color`] (#color)
  - [`modifier`] (#modifier)
  - [`container`] (#container)
  - [`pad`] (#pad)
  - [`fixed`] (#fixed)
  - [`ifElse`] (#ifElse)
  - [`provide`] (#provide)
```

## Installation

```
```bash
yarn add ansi-fragments
```
```

## Usage

```
```js
import { color, modifier, pad, container } from 'ansi-fragments';

const prettyLog = (level, message) => container(
```



```

    color('green', modifier('italic', level)),
    pad(1),
    message
).build();

```

```

console.log(prettyLog('success', 'Yay!'));
```

```

## API

Each fragment implements `IFragment` interface:

```

```ts
interface IFragment {
    build(): string;
}
```

```

The `build` method is responsible for traversing the tree of fragments and create a string representation with ANSI escape codes.

#### `color`

```

```ts
color(
    ansiColor: AnsiColor,
    ...children: Array<string | IFragment>
): IFragment
```

```

Creates fragment for standard ANSI [colors](./src/fragments/Color.ts).

```

```js
color('red', 'Oh no');
color('bgBlue', color('brightBlue', 'Hey'));
color('green', modifier('bold', 'Sup!'));
```

```

#### `modifier`

```

```ts
modifier(
    ansiModifier: AnsiModifier,
    ...children: Array<string | IFragment>
): IFragment
```

```

Creates fragment for standard ANSI [modifiers](./src/fragments/Modifier.ts): `dim`, `bold`, `hidden`, `italic`, `underline`, `strikethrough`.

```

```js
modifier('underline', 'Hello', 'World');
modifier('italic', modifier('bold', 'Hey'));
modifier('bold', color('green', 'Sup!'));
```

```

#### `container`

```

```ts
container(...children: Array<string | IFragment>): IFragment
```

```

Creates fragment, which sole purpose is to hold and build nested fragments.

```

```js
container(

```

```

    color('gray', '[08/01/18 12:00]'),
    pad(1),
    color('green', 'success'),
    pad(1),
    'Some message'
)
```

```

#### `pad`

```

```ts
pad(count: number, separator?: string): IFragment
```

```

Creates fragment, which repeats given separator (default: ` `) given number of times.

```

```js
pad(1);
pad(2, '#')
pad(1, '\n')
```

```

#### `fixed`

```

```ts
fixed(
  value: number,
  bias: 'start' | 'end',
  ...children: Array<string | IFragment>
): IFragment
```

```

Creates fragment, which makes sure the children will always build to given number of non-ANSI characters. It will either trim the results or add necessary amount of spaces. The `bias` control if trimming/padding should be done at the start of the string representing built children or at the end.

```

```js
fixed(5, 'start', 'ERR'); // => '  ERR'
fixed(8, 'end', color('green', 'success')); // equals to color('green', 'success') + ' '
fixed(10, 'end', 'Hello', pad(2), 'World') // => 'Hello  Wor'
```

```

#### `ifElse`

```

```ts
ifElse(
  condition: Condition,
  ifTrueFragment: string | IFragment,
  elseFragment: string | IFragment
): IFragment

```

```

type ConditionValue = boolean | string | number | null | undefined;
type Condition = ConditionValue | (() => ConditionValue);
```

```

Change the output based on condition. Condition can be a primitive value, which can be casted to boolean or a function. If condition or return value of condition is evaluated to `true`, the first argument - `ifTrueFragment` will be used, otherwise `elseFragment`.

```

```js
let condition = getConditionValue()
ifElse(
  () => condition,
  color('red', 'ERROR'),
  color('yellow', 'WARNING')
)

```

```
```
```

```
#### `provide`
```

```
```ts
provide<T>(  
  value: T,  
  builder: (value: T) => string | IFragment  
): IFragment  
```
```

Provides given value to a builder function, which should return `string` or fragment. Useful in situations when the output is connected with some calculated value - using `provide` you only need to calculate final value once and forward it to custom styling logic.

```
```js
provide(getMessageFromSomewhere(), value => {  
  switch (value.level) {  
    case 'error':  
      return container(  
        color('red', modifier('bold', value.level.toUpperCase())),  
        pad(2),  
        value.log  
      );  
    case 'info':  
      return container(  
        color('blue', value.level.toUpperCase()),  
        pad(2),  
        value.log  
      );  
    default:  
      return container(value.level.toUpperCase(), pad(2), value.log);  
  }  
})  
```
```

```
<!-- badges (common) -->
```

```
[license-badge]: https://img.shields.io/npm/l/ansi-fragments.svg?style=flat-square  
[license]: https://opensource.org/licenses/MIT  
[prs-welcome-badge]: https://img.shields.io/badge/PRs-welcome-brightgreen.svg?  
style=flat-square  
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square&colorB=7289DA&logo=discord  
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[version]: https://img.shields.io/npm/v/ansi-fragments.svg?style=flat-square  
[package]: https://www.npmjs.com/package/ansi-fragments
```

```
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```

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[ansi-red@0.1.1](#)

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[ansi-wrap@0.1.0](#)

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[anymatch@2.0.0](#)

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[aproba@1.2.0](#)

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[are-we-there-yet@1.1.5](#)

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[argparse@1.0.10](#)

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arr-diff@4.0.0

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#### [array-back@1.0.4](#)

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#### [array-filter@0.0.1](#)

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# array-filter

``Array#filter`` for older browsers.

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## Usage

```
```js
var filter = require('array-filter');

var array = [1, 2, 3];
console.log(filter(array, function (el, i, arr) {
  return false; // I throw it on the ground!
}));
// => []
```
```

## Installation

With `[npm]` (<http://npmjs.org>) do

```
```bash
$ npm install array-filter
```
```

Then bundle for the browser with `[browserify]` (<https://github.com/substack/browserify>).

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[array-map@0.0.0](#)

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### `array-slice@0.2.3`

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## array-unique@0.3.2

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## art@0.10.3

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## asap@2.0.6

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[asn1@0.2.4](#)

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[assert-plus@1.0.0](#)

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# assert-plus

This library is a super small wrapper over node's assert module that has two things: (1) the ability to disable assertions with the environment variable `NODE_DEBUG`, and (2) some API wrappers for argument testing. Like ``assert.string(myArg, 'myArg')``. As a simple example, most of my code looks like this:

```
```javascript
var assert = require('assert-plus');

function fooAccount(options, callback) {
  assert.object(options, 'options');
  assert.number(options.id, 'options.id');
  assert.bool(options.isManager, 'options.isManager');
  assert.string(options.name, 'options.name');
  assert.arrayOfString(options.email, 'options.email');
  assert.func(callback, 'callback');

  // Do stuff
}
```

```
        callback(null, {});
    }
    ...

```

## # API

All methods that *aren't* part of node's core assert API are simply assumed to take an argument, and then a string 'name' that's not a message; `AssertionError` will be thrown if the assertion fails with a message like:

```
AssertionError: foo (string) is required
at test (/home/mark/work/foo/foo.js:3:9)
at Object.<anonymous> (/home/mark/work/foo/foo.js:15:1)
at Module._compile (module.js:446:26)
at Object..js (module.js:464:10)
at Module.load (module.js:353:31)
at Function._load (module.js:311:12)
at Array.0 (module.js:484:10)
at EventEmitter._tickCallback (node.js:190:38)

```

from:

```
```javascript
function test(foo) {
    assert.string(foo, 'foo');
}
...

```

There you go. You can check that arrays are of a homogeneous type with `ArrayOf$Type`:

```
```javascript
function test(foo) {
    assert.arrayOfString(foo, 'foo');
}
...

```

You can assert IFF an argument is not `undefined` (i.e., an optional arg):

```
```javascript
assert.optionalString(foo, 'foo');
...

```

Lastly, you can opt-out of assertion checking altogether by setting the environment variable `NODE_NDEBUG=1`. This is pseudo-useful if you have lots of assertions, and don't want to pay `typeof ()` taxes to v8 in production. Be advised: The standard functions re-exported from `assert` are also disabled in `assert-plus` if `NDEBUG` is specified. Using them directly from the `assert` module avoids this behavior.

The complete list of APIs is:

```
* assert.array
* assert.bool
* assert.buffer
* assert.func
* assert.number
* assert.finite
* assert.object
* assert.string
* assert.stream
* assert.date
* assert.regexp
* assert.uuid
* assert.arrayOfArray
* assert.arrayOfBool
* assert.arrayOfBuffer
* assert.arrayOfFunc

```

```
* assert.arrayOfNumber
* assert.arrayOfFinite
* assert.arrayOfObject
* assert.arrayOfString
* assert.arrayOfStream
* assert.arrayOfDate
* assert.arrayOfRegexp
* assert.arrayOfUuid
* assert.optionalArray
* assert.optionalBool
* assert.optionalBuffer
* assert.optionalFunc
* assert.optionalNumber
* assert.optionalFinite
* assert.optionalObject
* assert.optionalString
* assert.optionalStream
* assert.optionalDate
* assert.optionalRegexp
* assert.optionalUuid
* assert.optionalArrayOfArray
* assert.optionalArrayOfBool
* assert.optionalArrayOfBuffer
* assert.optionalArrayOfFunc
* assert.optionalArrayOfNumber
* assert.optionalArrayOfFinite
* assert.optionalArrayOfObject
* assert.optionalArrayOfString
* assert.optionalArrayOfStream
* assert.optionalArrayOfDate
* assert.optionalArrayOfRegexp
* assert.optionalArrayOfUuid
* assert.AssertionError
* assert.fail
* assert.ok
* assert.equal
* assert.notEqual
* assert.deepEqual
* assert.notDeepEqual
* assert.strictEqual
* assert.notStrictEqual
* assert.throws
* assert.doesNotThrow
* assert.ifError
```

```
# Installation
```

```
npm install assert-plus
```

```
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```

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## Bugs

See <<https://github.com/mcavage/node-assert-plus/issues>>.

[assign-symbols@1.0.0](#)

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[astral-regex@1.0.0](#)

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[async-limiter@1.0.1](#)

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[async@2.6.3](#)

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[async@0.4.0](#)

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atob@2.1.2

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[babel-plugin-syntax-trailing-function-commas@7.0.0-beta.0](#)

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# babel-plugin-syntax-trailing-function-commas

> Compile trailing function commas to ES5

```
```js
function clownPuppiesEverywhere(
  param1,
  param2,
```

```
) { /* ... */ }
```

```
clownPuppiesEverywhere(  
  'foo',  
  'bar',  
);  
```
```

## Example

### Basic

This is an example from the [Proposal](<https://github.com/jeffmo/es-trailing-function-commas>).

Let's say you have this function:

```
```js  
function clownPuppiesEverywhere(  
  param1,  
  param2  
) { /* ... */ }
```

```
clownPuppiesEverywhere(  
  'foo',  
  'bar'  
);  
```
```

If you want to have a new parameter called `param3`, the diff output would be like that:

```
```diff  
function clownPuppiesEverywhere(  
  param1,  
- param2  
+ param2, // Change this line to add a comma  
+ param3 // Add param3  
) { /* ... */ }
```

```
clownPuppiesEverywhere(  
  'foo',  
- 'bar'  
+ 'bar', // Change this line to add a comma  
+ 'baz' // Add param3  
);  
```
```

In total, you have to change 2 lines for the function declaration and 2 lines for each usage.

If you had your function defined with trailing commas:

```
```js  
function clownPuppiesEverywhere(  
  param1,  
  param2,  
) { /* ... */ }
```

```
clownPuppiesEverywhere(  
  'foo',  
  'bar',  
);  
```
```

Adding a new parameter would only change one line in the function declaration and one line for each usage:

```
```diff  
function clownPuppiesEverywhere(  
  param1,
```

```

    param2,
+   param3, // Add param3
) { /* ... */ }

```

```

clownPuppiesEverywhere(
  'foo',
  'bar',
+ 'baz', // Add param3
);
...

```

In the end, your diff output will be cleaner and easier to read, it would be much quicker to add a new parameter to your functions, it also makes it easier to copy paste elements and move code around.

## ## Installation

```

```sh
npm install --save-dev babel-plugin-syntax-trailing-function-commas
```

```

## ## Usage

### ### Via `.babelrc` (Recommended)

```

**.babelrc**

```json
{
  "plugins": ["syntax-trailing-function-commas"]
}
```

```

### ### Via CLI

```

```sh
babel --plugins syntax-trailing-function-commas script.js
```

```

### ### Via Node API

```

```javascript
require("babel-core").transform("code", {
  plugins: ["syntax-trailing-function-commas"]
});
```

```

## ## References

- \* [Proposal] (<https://github.com/jeffmo/es-trailing-function-commas>)
- \* [Spec] (<http://jeffmo.github.io/es-trailing-function-commas/>)
- \* [Why you should enforce Dangling Commas for Multiline Statements] (<https://medium.com/@nikgraf/why-you-should-enforce-dangling-commas-for-multiline-statements-d034c98e36f8>)

[babel-preset-fbjs@3.3.0](#)

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`bplist-parser@0.2.0`

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# bplist-parser

Binary Mac OS X Plist (property list) parser.

## Installation

```
```bash
$ npm install bplist-parser
```
```

## Quick Examples

```
```javascript
const bplist = require('bplist-parser');

(async () => {

  const obj = await bplist.parseFile('myPlist.bplist');

  console.log(JSON.stringify(obj));

})();
```
```

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[brace-expansion@1.1.11](#)

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[braces@2.3.2](#)

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[bser@2.1.1](#)

License type: Apache-2.0

# BSER Binary Serialization

BSER is a binary serialization scheme that can be used as an alternative to JSON. BSER uses a framed encoding that makes it simpler to use to stream a sequence of encoded values.

It is intended to be used for local-IPC only and strings are represented as binary with no specific encoding; this matches the convention employed by most operating system filename storage.

For more details about the serialization scheme see  
[Watchman's docs] (<https://facebook.github.io/watchman/docs/bser.html>).

## API

```
```js
var bser = require('bser');
```

### bser.loadFromBuffer

The is the synchronous decoder; given an input string or buffer, decodes a single value and returns it. Throws an error if the input is invalid.

```
```js
var obj = bser.loadFromBuffer(buf);
```

### bser.dumpToBuffer

Synchronously encodes a value as BSER.

```
```js
var encoded = bser.dumpToBuffer(['hello']);
console.log(bser.loadFromBuffer(encoded)); // ['hello']
```

### BunserBuf

The asynchronous decoder API is implemented in the BunserBuf object. You may incrementally append data to this object and it will emit the decoded values via its `value` event.

```
```js
var bunser = new bser.BunserBuf();

bunser.on('value', function(obj) {
  console.log(obj);
});
```

Then in your socket `data` event:

```
```js
bunser.append(buf);
```

## Example

Read BSER from socket:

```
```js
var bunser = new bser.BunserBuf();

bunser.on('value', function(obj) {
  console.log('data from socket', obj);
});
```

```
var socket = net.connect('/socket');
```

```
socket.on('data', function(buf) {  
    bunser.append(buf);  
});  
````
```

Write BSER to socket:

```
````js  
socket.write(bser.dumpToBuffer(obj));  
````
```

## btoa@1.1.2

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Version 2.0, January 2004

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## buffer-alloc-unsafe@1.1.0

License type: MIT

# Buffer Alloc Unsafe

A [ponyfill](https://ponyfill.com) for `Buffer.allocUnsafe`.

Works as Node.js: `v7.0.0` <br>

Works on Node.js: `v0.10.0`

## Installation

```
```sh
npm install --save buffer-alloc-unsafe
```
```

## Usage

```
```js
const allocUnsafe = require('buffer-alloc-unsafe')

console.log(allocUnsafe(10))
//=> <Buffer 78 0c 80 03 01 00 00 00 05 00>

console.log(allocUnsafe(10))
//=> <Buffer 58 ed bf 5f ff 7f 00 00 01 00>

console.log(allocUnsafe(10))
//=> <Buffer 50 0c 80 03 01 00 00 00 0a 00>

allocUnsafe(-10)
//=> RangeError: "size" argument must not be negative
```
```

## API

### allocUnsafe(size)

- `size` <Integer> The desired length of the new `Buffer`

Allocates a new \*non-zero-filled\* `Buffer` of `size` bytes. The `size` must be less than or equal to the value of `buffer.kMaxLength` and greater than or equal to zero. Otherwise, a `RangeError` is thrown.

## See also

- [buffer-alloc](https://github.com/LinusU/buffer-alloc) A ponyfill for `Buffer.alloc`
- [buffer-fill](https://github.com/LinusU/buffer-fill) A ponyfill for `Buffer.fill`
- [buffer-from](https://github.com/LinusU/buffer-from) A ponyfill for `Buffer.from`

## buffer-alloc@1.2.0

License type: MIT

## # Buffer Alloc

A [ponyfill](https://ponyfill.com) for `Buffer.alloc`.

Works as Node.js: `v7.0.0` <br>

Works on Node.js: `v0.10.0`

## ## Installation

```
```sh
npm install --save buffer-alloc
```
```

## ## Usage

```
```js
const alloc = require('buffer-alloc')

console.log(alloc(4))
//=> <Buffer 00 00 00 00>

console.log(alloc(6, 0x41))
//=> <Buffer 41 41 41 41 41 41>

console.log(alloc(10, 'linus', 'utf8'))
//=> <Buffer 6c 69 6e 75 73 6c 69 6e 75 73>
```
```

## ## API

### alloc(size[, fill[, encoding]])

- `size` <Integer> The desired length of the new `Buffer`
- `fill` <String> | <Buffer> | <Integer> A value to pre-fill the new `Buffer` with. **Default:** `0`
- `encoding` <String> If `fill` is a string, this is its encoding. **Default:** `utf8`

Allocates a new `Buffer` of `size` bytes. If `fill` is `undefined`, the `Buffer` will be zero-filled.

## ## See also

- [buffer-alloc-unsafe](https://github.com/LinusU/buffer-alloc-unsafe) A ponyfill for `Buffer.allocUnsafe`
- [buffer-fill](https://github.com/LinusU/buffer-fill) A ponyfill for `Buffer.fill`
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[buffer-crc32@0.2.13](#)

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buffer-fill@1.0.0

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# Buffer Fill

A [ponyfill](https://ponyfill.com) for `Buffer.fill`.

Works as Node.js: `v6.4.0` <br>

Works on Node.js: `v0.10.0`

## Installation

```
```sh
npm install --save buffer-fill
```
```

## Usage

```
```js
const fill = require('buffer-fill')
const buf = Buffer.allocUnsafe(5)

console.log(buf.fill(8))
//=> <Buffer 08 08 08 08 08>

console.log(buf.fill(9, 2, 4))
//=> <Buffer 08 08 09 09 08>

console.log(buf.fill('linus', 'latin1'))
//=> <Buffer 6c 69 6e 75 73>

console.log(buf.fill('\u0222'))
//=> <Buffer c8 a2 c8 a2 c8>
```
```

## API

### fill(buf, value[, offset[, end]][, encoding])

- `value` <String> | <Buffer> | <Integer> The value to fill `buf` with
- `offset` <Integer> Where to start filling `buf`. \*\*Default:\*\* `0`
- `end` <Integer> Where to stop filling `buf` (not inclusive). \*\*Default:\*\* `buf.length`
- `encoding` <String> If `value` is a string, this is its encoding. \*\*Default:\*\* `utf8`
- Return: <Buffer> A reference to `buf`

Fills `buf` with the specified `value`. If the `offset` and `end` are not given, the entire `buf` will be filled. This is meant to be a small simplification to allow the creation and filling of a `Buffer` to be done on a single line.

If the final write of a `fill()` operation falls on a multi-byte character, then only the first bytes of that character that fit into `buf` are written.

## See also

- [buffer-alloc-unsafe] (<https://github.com/LinusU/buffer-alloc-unsafe>) A ponyfill for `Buffer.allocUnsafe`
- [buffer-alloc] (<https://github.com/LinusU/buffer-alloc>) A ponyfill for `Buffer.alloc`
- [buffer-from] (<https://github.com/LinusU/buffer-from>) A ponyfill for `Buffer.from`

[buffer-from@1.1.1](#)

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[buffer@5.2.1](#)

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[build-url@1.0.10](#)

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[bytes@3.0.0](#)

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[cache-base@1.0.1](#)

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[caller-callsite@2.0.0](#)

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`camelcase@4.1.0`

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# capture-exit

```
[![Build status](https://ci.appveyor.com/api/projects/status/8044m918rwic8b9n/branch/master?svg=true)](https://ci.appveyor.com/project/embercli/capture-exit/branch/master)
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```

Allow cooperative async exit handlers, we unfortunately must hijack process.exit.

It allows a handler to ensure exit, without that exit handler impeding other similar handlers

for example, see: [sindresorhus/ora#27](https://github.com/sindresorhus/ora/issues/27)

Differences between `process.on('exit')` and `captureExit.onExit(...)` => <https://github.com/ember-cli/capture-exit/issues/12>

### Installation

```
```sh
yarn add capture-exit
// or
npm install --save capture-exit
```
```

### ### Usage

```
```js
// as early in startup as possible
require('capture-exit').captureExit();

// when you want to schedule some work on exit:
function onExit() {
  return something.processWillExit(); // you can return promises, which will pause exit
  until fulfilled
}

require('capture-exit').onExit(onExit); // add an exit handler
require('capture-exit').offExit(onExit); // allows one to remove an exit handle if it is
not longer required
```
```

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`command-exists@1.2.8`

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[command-line-args@4.0.7](#)

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[concat-stream@1.6.2](#)

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[connect@3.7.0](#)

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[core-js@1.2.7](#)

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[core-js@2.6.11](#)

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crypto-js@3.1.9-1

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css-mediaquery@0.1.2

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dashdash@1.14.1

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[dayjs@1.8.20](#)

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[debounce@1.2.0](#)

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# debounce

Useful for implementing behavior that should only happen after a repeated action has completed.

## Installation

\$ component install component/debounce

Or in node:

```
$ npm install debounce
```

## Example

```
```js
var debounce = require('debounce');
window.onresize = debounce(resize, 200);

function resize(e) {
  console.log('height', window.innerHeight);
  console.log('width', window.innerWidth);
}
```
```

To later clear the timer and cancel currently scheduled executions:

```
```
window.onresize.clear();
```
```

To execute any pending invocations and reset the timer:

```
```
window.onresize.flush();
```
```

Alternately, if using newer syntax:

```
```js
import { debounce } from "debounce";
```
```

## API

### `debounce(fn, wait, [ immediate || false ])`

Creates and returns a new debounced version of the passed function that will postpone its execution until after `wait` milliseconds have elapsed since the last time it was invoked.

Pass ``true`` for the ``immediate`` parameter to cause `debounce` to trigger the function on the leading edge instead of the trailing edge of the wait interval. Useful in circumstances like preventing accidental double-clicks on a "submit" button from firing a second time.

The debounced function returned has a property `'clear'` that is a function that will clear any scheduled future executions of your function.

The debounced function returned has a property `'flush'` that is a function that will immediately execute the function if and only if execution is scheduled, and reset the execution timer for subsequent invocations of the debounced function.

## License

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[debug@2.6.9](#)

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[delayed-stream@1.0.0](#)

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[delegates@1.0.0](#)

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## denodeify@1.2.1

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denodeify [ ![Codeship Status for matthew-andrews/denodeify](https://codeship.io/projects/02ac77d0-1a58-0132-bf86-4a07366ee29d/status)](https://codeship.io/projects/34622)

=====

Tool to turn functions with Node-style callback APIs into functions that return [Promises](https://github.com/jakearchibald/es6-promise).

Inspired by and adapted from Q's [`Q.denodeify`/`Q.nfcall`` function](https://github.com/kriskowal/q/wiki/API-Reference#qnfbindnodefunc-args).

Warning: This micro-library doesn't force you to use any particular Promise implementation by using whatever `Promise` has been defined as globally. This is so that you may use any ES6 standard Promise compliant library - or, of course, native ES6 Promises.

If you're running the code on a browser or node version that doesn't include native promises you will need to include a polyfill. The following polyfills are tested as part of this module's test suite:-

- [Jake Archibald](https://twitter.com/jaffathecake)'s [ES6 Promise library](https://github.com/jakearchibald/es6-promise) (which is actually adapted from [Stefan Penner](https://twitter.com/stefanpenner)'s [RSVP.js](https://github.com/tildeio/rsvp.js)). - `require('es6-promise').polyfill();``
- [Getify](https://twitter.com/getify)'s [Native Promise Only library](https://github.com/getify/native-promise-only) - `require('native-promise-only');``
- [ES6 Shim](https://github.com/es-shims/es6-shim) - `require('es6-shim');``
- [Calvin Metcalf](https://twitter.com/CWMma)'s [Lie](https://github.com/calvinmetcalf/lie) - `global.Promise = global.Promise || require('lie');``

Note: as of v1.2.0 you can use `**denodeify**` in the front end. Pull it in via CommonJS, AMD or simply add to your webpage and it'll be available on `window.denodeify``.

### ## Installation

...

```
npm install denodeify --save
```

...

Or:-

...

```
bower install denodeify --save
```

...

### ## Examples

Simple example with [`readFile``](https://www.npmjs.org/package/read-file):-

```
``js
require('es6-promise').polyfill();

var denodeify = require('denodeify');
var readFile = denodeify(require('fs').readFile);

readFile('my-file.txt', { encoding: 'UTF-8' })
  .then(function(text) {
    console.log("My file's contents is: " + text);
  });
``js
```

(Note: you will need to also install [es6-promise](https://github.com/jakearchibald/es6-promise) with ``npm install es6-promise`` for this code sample to work within node versions that don't have `Promise`` natively available)

More complex example with ``exec``:-

## Advanced usage

You can also pass in a function as a second argument of ``denodeify`` that allows you to manipulate the data returned by the wrapped function before it gets passed to the Promise's ``reject`` or ``resolve`` functions, for example:-

```
```js
require('es6-promise').polyfill();

var denodeify = require('denodeify');
var exec = denodeify(require('child_process').exec, function(err, stdout, stderr) {

  // Throw away stderr data
  return [err, stdout];
});

exec('hostname')
  .then(function(host) {
    console.log("My hostname is: " + host.replace('\n', ''));
  });
```
```

Or,

```
```js
require('es6-promise').polyfill();

var denodeify = require('denodeify');
var exec = denodeify(require('child_process').exec, function(err, stdout, stderr) {
  return [err, [stdout, stderr]];
});

exec('my-command')
  .then(function(results) {
    console.log("stdout is: " + results[0]);
    console.log("stderr is: " + results[1]);
  });
```
```

Useful for functions that return multiple arguments, for example [``child_process#exec``] ([http://nodejs.org/api/child\\_process.html#child\\_process\\_child\\_process\\_exec\\_command\\_options\\_callback](http://nodejs.org/api/child_process.html#child_process_child_process_exec_command_options_callback)).

## Credits and collaboration ##

The lead developer of **denodeify** is [Matt Andrews] (<http://twitter.com/andrewsmatt>) at FT Labs with much help and support from [Kornel Lesiński] (<https://twitter.com/pornelski>). All open source code released by FT Labs is licenced under the MIT licence. We welcome comments, feedback and suggestions. Please feel free to raise an issue or pull request.

[depd@1.1.2](#)

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### [detect-libc@1.0.3](#)

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[encodeurl@1.0.2](#)

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[encoding@0.1.12](#)

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[envinfo@7.5.0](#)

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[es-abstract@1.17.4](#)

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[es-to-primitive@1.2.1](#)

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[es6-promise@4.2.8](#)



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`es6-promisify@5.0.0`

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`# es6-promisify`

Converts callback-based functions to Promise-based functions.

`## Install`

Install with [npm](https://npmjs.org/package/es6-promisify)

```
```bash
npm install --save es6-promisify
```
```

`## Example`

```
```js
"use strict";

// Declare variables
const promisify = require("es6-promisify");
const fs = require("fs");

// Convert the stat function
const stat = promisify(fs.stat);

// Now usable as a promise!
stat("example.txt").then(function (stats) {
  console.log("Got stats", stats);
}).catch(function (err) {
  console.error("Yikes!", err);
});
```
```

`## Promisify methods`

```
```js
"use strict";
```

```
// Declare variables
const promisify = require("es6-promisify");
const redis = require("redis").createClient(6379, "localhost");

// Create a promise-based version of send_command
const client = promisify(redis.send_command, redis);

// Send commands to redis and get a promise back
client("ping").then(function (pong) {
  console.log("Got", pong);
}).catch(function (err) {
  console.error("Unexpected error", err);
}).then(function () {
  redis.quit();
});
```



```
## Handle callback multiple arguments
```js
"use strict";

// Declare functions
function test(cb) {
  return cb(undefined, 1, 2, 3);
}

// Declare variables
const promisify = require("es6-promisify");

// Create promise-based version of test
const single = promisify(test);
const multi = promisify(test, {multiArgs: true});

// Discards additional arguments
single().then(function (result) {
  console.log(result); // 1
});

// Returns all arguments as an array
multi().then(function (result) {
  console.log(result); // [1, 2, 3]
});
```

### Tests
Test with nodeunit
```bash
$ npm test
```

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```


```

[escape-html@1.0.3](#)

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[escape-string-regexp@1.0.5](#)

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### `etag@1.8.1`

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[event-target-shim@5.0.1](#)

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[eventemitter3@3.1.2](#)

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[faye-websocket@0.11.3](#)

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[fb-watchman@2.0.1](#)

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# fb-watchman

`fb-watchman` is a filesystem watcher that uses the [Watchman](https://facebook.github.io/watchman/) file watching service from Facebook.

Watchman provides file change notification services using very efficient recursive watches and also allows more advanced change matching and filesystem tree querying operations using [a powerful expression syntax](https://facebook.github.io/watchman/docs/file-query.html#expressions).

## Install

You should [install Watchman](https://facebook.github.io/watchman/docs/install.html) to make the most of this module.

Then simply:

...

\$ npm install fb-watchman

...

## ## Key Concepts

- Watchman recursively watches directories.
- Each watched directory is called a `root`.
- You must initiate a `watch` on a `root` using the `watch-project` command prior to subscribing to changes
- Rather than separately watching many sibling directories, `watch-project` consolidates and re-uses existing watches relative to a project root (the location of your `.watchmanconfig` or source control repository root)
- change notifications are relative to the project root

## ## How do I use it?

[Read the NodeJS watchman documentation](<https://facebook.github.io/watchman/docs/nodejs.html>)

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[fd-slicer@1.1.0](#)

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[figures@2.0.0](#)

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[fill-range@4.0.0](#)

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[finalhandler@1.1.2](#)

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[fresh@0.5.2](#)

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[fs-minipass@1.2.7](#)

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[function-bind@1.1.1](#)

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[growly@1.3.0](#)

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# Growly #

Simple zero-dependency Growl notifications using GNTTP.

## Installation ##

Install growly using `npm`:

```

npm install growly

```

And then require it:

```javascript

var growly = require('growly');

```

This module uses the Growl Network Transport Protocol (GNTTP) which was implemented in Growl since version 1.3, so you **must** have an appropriate version of Growl installed



for Growly to work.

## ## Example ##

Sending a minimal Growl notification:

```
```javascript
var growly = require('growly');

growly.notify('This is as easy as it gets', { title: 'Hello, World!' });
```
```

More examples can be found in the `*example/*` directory.

## ## Usage ##

The growly module exposes only three methods: ``Growly.register()``, ``Growly.notify()``, and ``Growly.setHost()``.

### `Growly.register(appname, [appicon], [notifications], [callback])` ###

Registers a new application with Growl. Registration is completely optional since it will be performed automatically for you with sensible defaults. Useful if you want your application, with its own icon and types of notifications, to show up in Growl's preference panel.

- ``appname`` the name of the application (required.)
- ``appicon`` url, file path, or Buffer instance for an application icon image.
- ``notifications`` a list of defined notification types with the following properties:
  - ``.label`` name used to identify the type of notification being used (required.)
  - ``.dispname`` name users will see in Growl's preference panel (defaults to ``.label``.)
  - ``.enabled`` whether or not notifications of this type are enabled (defaults to true.)
- ``callback`` called when the registration completes; if registration fails, the first argument will be an Error object.

An example:

```
```javascript
growly.register('My Application', 'path/to/icon.png', [
  { label: 'success', dispname: 'Success' },
  { label: 'warning', dispname: 'Warning', enabled: false }
], function(err) {
  console.log(err || 'Registration successful!');
});
```
```

### `Growly.notify(text, [opts], [callback])` ###

Sends a Growl notification. If an application wasn't registered beforehand with ``growly.register()``, a default application will automatically be registered before sending the notification.

- ``text`` the body of the notification.
- ``opts`` an object with the following properties:
  - ``.title`` title of the notification.
  - ``.icon`` url, file path, or Buffer instance for the notification's icon.
  - ``.sticky`` whether or not to sticky the notification (defaults to false.)
  - ``.label`` type of notification to use (defaults to the first registered notification type.)
  - ``.priority`` the priority of the notification from lowest (-2) to highest (2).
  - ``.coalescingId`` replace/update the matching previous notification. May be ignored.
- ``callback`` called when the user has closed/clicked the notification. The callback is passed an Error object ``err`` as the first argument when the notification fails; otherwise, the second argument ``action`` is a string that'll describe which action has been taken by the user (either `'closed'` or `'clicked'`.)

An example:

```
```javascript
/* Assuming an application was registered with a notification type labeled 'warning'. */
growly.notify('Stuffs broken!', { label: 'warning' }, function(err, action) {
  console.log('Action:', action);
});
```
```

```
### Growly.setHost(host, port) ###
```

Set the host and port that Growl (GNTTP) requests will be sent to. Using this method is optional since GNTTP defaults to using host 'localhost' and port 23053.

```
## License ##
```

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[hammerjs@2.0.17-snapshot](#)

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[hermes-engine@0.2.1](#)

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## Hermes

Hermes is a small and lightweight JavaScript VM optimized for running React Native apps on Android.

See [hermesengine.dev] (<https://hermesengine.dev>) for more information.

### hoist-non-react-statics@2.5.5

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### [http-errors@1.7.3](#)

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[http-parser-js@0.4.10](#)

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Some files from the tests folder are from joyent/node and mscedex/io.js, a fork of nodejs/io.js:

- tests/iojs/test-http-parser-durability.js

This file is from <https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js> with modifications by Jan Schvör (jscissr).

"""

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"""

```
- tests/fixtures/*
  tests/parallel/*
  tests/testpy/*
  tests/common.js
  tests/test.py
  tests/utils.py
```

These files are from <https://github.com/nodejs/node> with changes by Jan Schv̇sr (jscissr).

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"""

## [http-response-object@1.1.0](#)

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## [http-signature@1.2.0](#)

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## [https-proxy-agent@2.2.4](#)

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https-proxy-agent

=====

```
### An HTTP(s) proxy `http.Agent` implementation for HTTPS
[![Build Status](https://travis-ci.org/TooTallNate/node-https-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-https-proxy-agent)
```

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets).

See the "Examples" section below for more.

## Installation

-----

Install with `npm`:

```
``` bash
$ npm install https-proxy-agent
```
```

## Examples

-----

#### `https` module example

```
``` js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'https://graph.facebook.com/tootallnate';
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
  console.log("response" event!, res.headers);
  res.pipe(process.stdout);
});
```
```

#### `ws` WebSocket connection example

```
``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
```

```

    console.log('"open" event!');
    socket.send('hello world');
  });

socket.on('message', function (data, flags) {
  console.log('"message" event! %j %j', data, flags);
  socket.close();
});
```

```

API

---

### new `HttpsProxyAgent`(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the `[HTTP `CONNECT` method][CONNECT]`.

The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

- \* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
- \* `port` - Number - Proxy port to connect to. Required.
- \* `protocol` - String - If `https:`, then use TLS to connect to the proxy.
- \* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
- \* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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[CONNECT]: [http://en.wikipedia.org/wiki/HTTP\\_tunnel#HTTP\\_CONNECT\\_Tunneling](http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling)

[iconv-lite@0.4.24](#)

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[ieee754@1.1.13](#)

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[ignore-walk@3.0.3](#)

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`import-fresh@2.0.0`

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`imurmurhash@0.1.4`

License type: MIT

`iMurmurHash.js`  
=====

An incremental implementation of the MurmurHash3 (32-bit) hashing algorithm for JavaScript based on [Gary Court's implementation](https://github.com/garycourt/murmurhash-js) with [kazuyukitanimura's modifications](https://github.com/kazuyukitanimura/murmurhash-js).

This version works significantly faster than the non-incremental version if you need to hash many small strings into a single hash, since string concatenation (to build the single string to pass the non-incremental version) is fairly costly. In one case tested, using the incremental version was about 50% faster than concatenating 5-10 strings and then hashing.

## Installation

To use iMurmurHash in the browser, [download the latest version](https://raw.githubusercontent.com/jensyt/imurmurhash-js/master/imurmurhash.min.js) and include it as a script on your site.

```
```html
<script type="text/javascript" src="/scripts/imurmurhash.min.js"></script>
<script>
// Your code here, access iMurmurHash using the global object MurmurHash3
</script>
```
```

---

To use iMurmurHash in Node.js, install the module using NPM:

```
```bash
npm install imurmurhash
```
```

Then simply include it in your scripts:

```
```javascript
MurmurHash3 = require('imurmurhash');
```
```

## Quick Example

```
```javascript
// Create the initial hash
var hashState = MurmurHash3('string');

// Incrementally add text
hashState.hash('more strings');
hashState.hash('even more strings');

// All calls can be chained if desired
hashState.hash('and').hash('some').hash('more');

// Get a result
hashState.result();
// returns 0xe4ccfe6b
```
```

## Functions

```
### MurmurHash3 ([string], [seed])
Get a hash state object, optionally initialized with the given _string_ and _seed_.
_Seed_ must be a positive integer if provided. Calling this function without the `new`
keyword will return a cached state object that has been reset. This is safe to use as
long as the object is only used from a single thread and no other hashes are created
while operating on this one. If this constraint cannot be met, you can use `new` to
```



create a new state object. For example:

```
```javascript
// Use the cached object, calling the function again will return the same
// object (but reset, so the current state would be lost)
hashState = MurmurHash3();
...

// Create a new object that can be safely used however you wish. Calling the
// function again will simply return a new state object, and no state loss
// will occur, at the cost of creating more objects.
hashState = new MurmurHash3();
```
```

Both methods can be mixed however you like if you have different use cases.

---

```
### MurmurHash3.prototype.hash (string)
Incrementally add _string_ to the hash. This can be called as many times as you want for
the hash state object, including after a call to result(). Returns this so calls can
be chained.
```

---

```
### MurmurHash3.prototype.result ()
Get the result of the hash as a 32-bit positive integer. This performs the tail and
finalizer portions of the algorithm, but does not store the result in the state object.
This means that it is perfectly safe to get results and then continue adding strings via
hash.
```

```
```javascript
// Do the whole string at once
MurmurHash3('this is a test string').result();
// 0x70529328
```

```
// Do part of the string, get a result, then the other part
var m = MurmurHash3('this is a');
m.result();
// 0xbfc4f834
m.hash(' test string').result();
// 0x70529328 (same as above)
```
```

---

```
### MurmurHash3.prototype.reset ([seed])
Reset the state object for reuse, optionally using the given _seed_ (defaults to 0 like
the constructor). Returns this so calls can be chained.
```

---

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-----  
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### inquirer@3.3.0

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Inquirer.js

=====

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A collection of common interactive command line user interfaces.

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#### ## Goal and Philosophy

```

```

**Inquirer.js** strives to be an easily embeddable and beautiful command line interface for [Node.js](https://nodejs.org/) (and perhaps the "CLI [Xanadu](https://en.wikipedia.org/wiki/Citizen\_Kane)").

**Inquirer.js** should ease the process of

- providing *error feedback*
- *asking questions*
- *parsing* input
- *validating* answers
- managing *hierarchical prompts*

> **Note:** **Inquirer.js** provides the user interface and the inquiry session flow. If you're searching for a full blown command line program utility, then check out [commander](https://github.com/visionmedia/commander.js), [vorpal](https://github.com/dthree/vorpal) or [args](https://github.com/leo/args).

## [Documentation](#documentation)  
<a name="documentation"></a>

### Installation  
<a name="installation"></a>

```
``` shell
npm install inquirer
```
```

```
```javascript
var inquirer = require('inquirer');
inquirer.prompt([/* Pass your questions in here */]).then(function (answers) {
    // Use user feedback for... whatever!!
});
```
```

<a name="examples"></a>  
### Examples (Run it and see it)  
Check out the `examples/` folder for code and interface examples.

```
``` shell
node examples/pizza.js
node examples/checkbox.js
# etc...
```
```

### Methods  
<a name="methods"></a>  
#### `inquirer.prompt(questions) -> promise``

Launch the prompt interface (inquiry session)

- **questions** (Array) containing [Question Object](#question) (using the [reactive interface](#reactive-interface), you can also pass a `Rx.Observable`` instance)
- returns a **Promise**

#### `inquirer.registerPrompt(name, prompt)``

Register prompt plugins under `name``.

- **name** (string) name of the this new prompt. (used for question `type``)
- **prompt** (object) the prompt object itself (the plugin)

#### `inquirer.createPromptModule() -> prompt function``

Create a self contained inquirer module. If you don't want to affect other libraries that also rely on inquirer when you overwrite or add new prompt types.

```
```js
var prompt = inquirer.createPromptModule();

prompt(questions).then(/* ... */);
```

### Objects
<a name="objects"></a>

#### Question
<a name="questions"></a>
A question object is a `hash` containing question related values:

- **type**: (String) Type of the prompt. Defaults: `input` - Possible values: `input`, `confirm`, `list`, `rawlist`, `expand`, `checkbox`, `password`, `editor`
- **name**: (String) The name to use when storing the answer in the answers hash. If the name contains periods, it will define a path in the answers hash.
- **message**: (String|Function) The question to print. If defined as a function, the first parameter will be the current inquirer session answers.
- **default**: (String|Number|Array|Function) Default value(s) to use if nothing is entered, or a function that returns the default value(s). If defined as a function, the first parameter will be the current inquirer session answers.
- **choices**: (Array|Function) Choices array or a function returning a choices array. If defined as a function, the first parameter will be the current inquirer session answers.
Array values can be simple `strings`, or `objects` containing a `name` (to display in list), a `value` (to save in the answers hash) and a `short` (to display after selection) properties. The choices array can also contain [a `Separator`](#separator).
- **validate**: (Function) Receive the user input and answers hash. Should return `true` if the value is valid, and an error message (`String`) otherwise. If `false` is returned, a default error message is provided.
- **filter**: (Function) Receive the user input and return the filtered value to be used inside the program. The value returned will be added to the _Answers_ hash.
- **when**: (Function, Boolean) Receive the current user answers hash and should return `true` or `false` depending on whether or not this question should be asked. The value can also be a simple boolean.
- **pageSize**: (Number) Change the number of lines that will be rendered when using `list`, `rawList`, `expand` or `checkbox`.
- **prefix**: (String) Change the default _prefix_ message.
- **suffix**: (String) Change the default _suffix_ message.

`default`, `choices` (if defined as functions), `validate`, `filter` and `when` functions can be called asynchronous. Either return a promise or use `this.async()` to get a callback you'll call with the final value.

``` javascript
{
  /* Preferred way: with promise */
  filter: function () {
    return new Promise(/* etc... */);
  },

  /* Legacy way: with this.async */
  validate: function (input) {
    // Declare function as asynchronous, and save the done callback
    var done = this.async();

    // Do async stuff
    setTimeout(function () {
      if (typeof input !== 'number') {
        // Pass the return value in the done callback
        done('You need to provide a number');
      }
    });
  }
}
```

```

    }
    // Pass the return value in the done callback
    done(null, true);
  }, 3000);
}
}
...

```

### ### Answers

<a name="answers"></a>

A key/value hash containing the client answers in each prompt.

- **\*\*Key\*\*** The ``name`` property of the `_question_` object
- **\*\*Value\*\*** (Depends on the prompt)
  - ``confirm``: (Boolean)
  - ``input``: User input (filtered if ``filter`` is defined) (String)
  - ``rawlist``, ``list``: Selected choice value (or name if no value specified) (String)

### ### Separator

<a name="separator"></a>

A separator can be added to any ``choices`` array:

```

...
// In the question object
choices: [ "Choice A", new inquirer.Separator(), "choice B" ]

```

// Which'll be displayed this way

[?] What do you want to do?

> Order a pizza

Make a reservation

-----

Ask opening hours

Talk to the receptionist

...

The constructor takes a facultative ``String`` value that'll be use as the separator. If omitted, the separator will be ``-----``.

Separator instances have a property ``type`` equal to ``separator``. This should allow tools favouring Inquirer interface from detecting separator types in lists.

<a name="prompt"></a>

### ### Prompt types

-----

> **\*\*Note\*\***: `_` allowed options written inside square brackets (``[]``) are optional. Others are required.

#### #### List - ``{type: 'list'}``

Take ``type``, ``name``, ``message``, ``choices``[, ``default``, ``filter``] properties. (Note that default must be the choice ``index`` in the array or a choice ``value``)

![List prompt](assets/screenshots/list-prompt.png)

---

#### #### Raw List - ``{type: 'rawlist'}``

Take ``type``, ``name``, ``message``, ``choices``[, ``default``, ``filter``] properties. (Note that default must be the choice ``index`` in the array)

![Raw list prompt](assets/screenshots/rawlist-prompt.png)

---

#### #### Expand - ``{type: 'expand'}``

Take `type`, `name`, `message`, `choices`[, `default`] properties. (Note that default must be the choice `index` in the array. If `default` key not provided, then `help` will be used as default choice)

Note that the `choices` object will take an extra parameter called `key` for the `expand` prompt. This parameter must be a single (lowercased) character. The `h` option is added by the prompt and shouldn't be defined by the user.

See `examples/expand.js` for a running example.

![Expand prompt closed](assets/screenshots/expand-prompt-1.png)  
![Expand prompt expanded](assets/screenshots/expand-prompt-2.png)

---

#### Checkbox - `{type: 'checkbox'}`

Take `type`, `name`, `message`, `choices`[, `filter`, `validate`, `default`] properties. `default` is expected to be an Array of the checked choices value.

Choices marked as `{checked: true}` will be checked by default.

Choices whose property `disabled` is truthy will be unselectable. If `disabled` is a string, then the string will be outputted next to the disabled choice, otherwise it'll default to "Disabled". The `disabled` property can also be a synchronous function receiving the current answers as argument and returning a boolean or a string.

![Checkbox prompt](assets/screenshots/checkbox-prompt.png)

---

#### Confirm - `{type: 'confirm'}`

Take `type`, `name`, `message`[, `default`] properties. `default` is expected to be a boolean if used.

![Confirm prompt](assets/screenshots/confirm-prompt.png)

---

#### Input - `{type: 'input'}`

Take `type`, `name`, `message`[, `default`, `filter`, `validate`] properties.

![Input prompt](assets/screenshots/input-prompt.png)

---

#### Password - `{type: 'password'}`

Take `type`, `name`, `message`[, `default`, `filter`, `validate`] properties.

![Password prompt](assets/screenshots/password-prompt.png)

---

#### Editor - `{type: 'editor'}`

Take `type`, `name`, `message`[, `default`, `filter`, `validate`] properties

Launches an instance of the users preferred editor on a temporary file. Once the user exits their editor, the contents of the temporary file are read in as the result. The editor to use is determined by reading the \$VISUAL or \$EDITOR environment variables. If neither of those are present, notepad (on Windows) or vim (Linux or Mac) is used.

<a name="layouts"></a>

## ## User Interfaces and layouts

Along with the prompts, Inquirer offers some basic text UI.

```
#### Bottom Bar - `inquirer.ui.BottomBar`
```

This UI present a fixed text at the bottom of a free text zone. This is useful to keep a message to the bottom of the screen while outputting command outputs on the higher section.

```
```javascript
var ui = new inquirer.ui.BottomBar();

// pipe a Stream to the log zone
outputStream.pipe(ui.log);

// Or simply write output
ui.log.write('something just happened.');
```

ui.log.write('Almost over, standby!');

```

// During processing, update the bottom bar content to display a loader
// or output a progress bar, etc
ui.updateBottomBar('new bottom bar content');
```
```

```
<a name="reactive"></a>
## Reactive interface
```

Internally, Inquirer uses the [JS reactive extension](https://github.com/Reactive-Extensions/RxJS) to handle events and async flows.

This mean you can take advantage of this feature to provide more advanced flows. For example, you can dynamically add questions to be asked:

```
```js
var prompts = new Rx.Subject();
inquirer.prompt(prompts);

// At some point in the future, push new questions
prompts.onNext({ /* question... */ });
prompts.onNext({ /* question... */ });

// When you're done
prompts.onCompleted();
```
```

And using the return value `process` property, you can access more fine grained callbacks:

```
```js
inquirer.prompt(prompts).ui.process.subscribe(
  onEachAnswer,
  onError,
  onComplete
);
```
```

```
## Support (OS Terminals)
<a name="support"></a>
```

You should expect mostly good support for the CLI below. This does not mean we won't look at issues found on other command line - feel free to report any!

- \*\*Mac OS\*\*:
  - Terminal.app



- iTerm
- **\*\*Windows\*\***:
  - [ConEmu](https://conemu.github.io/)
  - cmd.exe
  - Powershell
  - Cygwin
- **\*\*Linux (Ubuntu, openSUSE, Arch Linux, etc)\*\***:
  - gnome-terminal (Terminal GNOME)
  - konsole

## News on the march (Release notes)  
<a name="news"></a>

Please refer to the [Github releases section for the changelog](https://github.com/SBoudrias/Inquirer.js/releases)

## Contributing  
<a name="contributing"></a>

**\*\*Unit test\*\***  
Unit test are written in [Mocha](https://mochajs.org/). Please add a unit test for every new feature or bug fix. `npm test` to run the test suite.

**\*\*Documentation\*\***  
Add documentation for every API change. Feel free to send typo fixes and better docs!

We're looking to offer good support for multiple prompts and environments. If you want to help, we'd like to keep a list of testers for each terminal/OS so we can contact you and get feedback before release. Let us know if you want to be added to the list (just tweet to [@vaxilart](https://twitter.com/Vaxilart)) or just add your name to [the wiki](https://github.com/SBoudrias/Inquirer.js/wiki/Testers)

## License  
<a name="license"></a>

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## Plugins  
<a name="plugins"></a>

### Prompts ###

[\_\_autocomplete\_\_](https://github.com/mokkabonna/inquirer-autocomplete-prompt)<br>Presents a list of options as the user types, compatible with other packages such as fuzzy (for search)<br><br>![autocomplete prompt](https://github.com/mokkabonna/inquirer-autocomplete-prompt/raw/master/inquirer.gif)

[\_\_datetime\_\_](https://github.com/DerekTBrown/inquirer-datepicker-prompt)<br>Customizable date/time selector using both number pad and arrow keys<br><br>![Datetime Prompt](https://github.com/DerekTBrown/inquirer-datepicker-prompt/raw/master/example/datetime-prompt.png)

[\_\_inquirer-select-line\_\_](https://github.com/adam-golab/inquirer-select-line)<br>Prompt for selecting index in array where add new element<br><br>![inquirer-select-line gif](https://media.giphy.com/media/xUA7b1MxpngddUvdHW/giphy.gif)

[\_\_command\_\_](https://github.com/sullof/inquirer-command-prompt)<br><br>

Simple prompt with command history and dynamic autocomplete

```
[__inquirer-chalk-pipe__](https://github.com/LitoMore/inquirer-chalk-pipe)<br>
Prompt for input chalk-pipe style strings<br>
<br>
![inquirer-chalk-pipe](https://github.com/LitoMore/inquirer-chalk-pipe/raw/master/screenshot.gif)
```

## invariant@2.2.4

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## invert-kv@1.0.0

License type: MIT

```
# invert-kv ![Build Status](https://travis-ci.org/sindresorhus/invert-kv.svg?branch=master)](https://travis-ci.org/sindresorhus/invert-kv)
```

```
> Invert the key/value of an object. Example: `{foo: 'bar'}` ,Üí `{bar: 'foo'}`
```

## Install

```
```sh
$ npm install --save invert-kv
```
```

## Usage

```
```js
var invertKv = require('invert-kv');

invertKv({foo: 'bar', unicorn: 'rainbow'});
//=> {bar: 'foo', rainbow: 'unicorn'}
```
```

## License

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[invert-kv@2.0.0](#)

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[ip-regex@1.0.3](#)

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[is-accessor-descriptor@0.1.6](#)

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[is-fullwidth-code-point@1.0.0](#)

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[is-plain-object@2.0.4](#)

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[is-regex@1.0.5](#)

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[is-symbol@1.0.3](#)

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isarray@0.0.1  
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```
# isarray

`Array#isArray` for older browsers.

## Usage

```js
var isArray = require('isarray');

console.log(isArray([])); // => true
console.log(isArray({})); // => false
```

## Installation

With [npm](http://npmjs.org) do

```bash
$ npm install isarray
```

Then bundle for the browser with
[browserify](https://github.com/substack/browserify).

With [component](http://component.io) do

```bash
$ component install juliangruber/isarray
```

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```

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`Array#isArray` for older browsers.

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With [component](http://component.io) do

```
```bash
$ component install juliangruber/isarray
```
```

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[isomorphic-fetch@2.2.1](#)

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[isstream@0.1.2](#)

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[jest-get-type@24.9.0](#)

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[jetifier@1.6.5](#)

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[js-tokens@4.0.0](#)

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[js-yaml@3.13.1](#)

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[jsbn@0.1.1](#)

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## json-parse-better-errors@1.0.2

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### [json-schema-traverse@0.4.1](#)

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### [json-schema@0.2.3](#)

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`json-stringify-safe@5.0.1`

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`json5@0.5.1`

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`jsonfile@2.4.0`

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`jsonfile@4.0.0`

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`jsonify@0.0.0`

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jsonify  
=====

This module provides Douglas Crockford's JSON implementation without modifying any globals.

`stringify` and `parse` are merely exported without respect to whether or not a global `JSON` object exists.

methods  
=====

```
var json = require('jsonify');
```

```
json.parse(source, reviver)
```

```
-----
```

Return a new javascript object from a parse of the `source` string.

If a `reviver` function is specified, walk the structure passing each name/value pair to `reviver.call(parent, key, value)` to transform the `value` before parsing it.

```
json.stringify(value, replacer, space)
```

```
-----
```

Return a string representation for `value`.

If `replacer` is specified, walk the structure passing each name/value pair to `replacer.call(parent, key, value)` to transform the `value` before stringifying it.

If `space` is a number, indent the result by that many spaces.

If `space` is a string, use `space` as the indentation.

### [jsprim@1.4.1](#)

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### [kind-of@1.1.0](#)

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```
# kind-of [![NPM version](https://badge.fury.io/js/kind-of.svg)](http://badge.fury.io/js/kind-of) [![Build Status](https://travis-ci.org/jonschlinkert/kind-of.svg)](https://travis-ci.org/jonschlinkert/kind-of)
```

```
> Get the native type of a value.
```

```
## Install with [npm](npmjs.org)
```

```
```bash
```

```
npm i kind-of --save
```

```
```
```

## Usage

```
```js
var kindOf = require('kind-of');

kindOf(undefined);
//=> 'undefined'

kindOf(null);
//=> 'null'

kindOf(true);
//=> 'boolean'

kindOf(false);
//=> 'boolean'

kindOf(new Boolean(true));
//=> 'boolean'

kindOf(new Buffer(''));
//=> 'buffer'

kindOf(42);
//=> 'number'

kindOf(new Number(42));
//=> 'number'

kindOf("string");
//=> 'string'

kindOf(arguments);
//=> 'arguments'

kindOf({});
//=> 'object'

kindOf(new Test());
//=> 'object'

kindOf(new Date());
//=> 'date'

kindOf([]);
//=> 'array'

kindOf([1, 2, 3]);
//=> 'array'

kindOf(new Array());
//=> 'array'

kindOf(/\s\S+/);
//=> 'regexp'

kindOf(new RegExp('^' + 'foo$'));
//=> 'regexp'

kindOf(function () {});
//=> 'function'

kindOf(new Function());
//=> 'function'
```
```

```
## Run tests
```

```
Install dev dependencies:
```

```
```bash
npm i -d && npm test
```
```

```
## Benchmarks
```

```
Benchmarked against [typeof](http://github.com/CodingFu/typeof) and [type-of](https://github.com/ForbesLindesay/type-of).
```

```
```bash
#1: array.js
  kind-of x 21,578,944 ops/sec ±1.01% (97 runs sampled)
  (lib) type-of x 4,593,840 ops/sec ±0.76% (92 runs sampled)
  (lib) typeof x 5,786,776 ops/sec ±0.71% (97 runs sampled)

#2: boolean.js
  kind-of x 25,189,600 ops/sec ±0.60% (97 runs sampled)
  (lib) type-of x 2,751,076 ops/sec ±0.78% (100 runs sampled)
  (lib) typeof x 4,390,312 ops/sec ±0.61% (99 runs sampled)

#3: date.js
  kind-of x 8,862,303 ops/sec ±0.77% (99 runs sampled)
  (lib) type-of x 6,239,662 ops/sec ±0.67% (94 runs sampled)
  (lib) typeof x 6,180,922 ops/sec ±0.59% (97 runs sampled)

#4: function.js
  kind-of x 19,685,336 ops/sec ±1.67% (95 runs sampled)
  (lib) type-of x 6,648,551 ops/sec ±0.93% (95 runs sampled)
  (lib) typeof x 6,631,967 ops/sec ±1.05% (92 runs sampled)

#5: null.js
  kind-of x 24,155,010 ops/sec ±0.95% (91 runs sampled)
  (lib) type-of x 12,854,583 ops/sec ±0.69% (94 runs sampled)
  (lib) typeof x 8,182,952 ops/sec ±0.48% (99 runs sampled)

#6: number.js
  kind-of x 20,993,521 ops/sec ±0.37% (98 runs sampled)
  (lib) type-of x 2,112,716 ops/sec ±0.73% (96 runs sampled)
  (lib) typeof x 4,492,943 ops/sec ±0.68% (96 runs sampled)

#7: object.js
  kind-of x 3,686,169 ops/sec ±0.85% (96 runs sampled)
  (lib) type-of x 3,661,833 ops/sec ±0.73% (98 runs sampled)
  (lib) typeof x 6,159,847 ops/sec ±0.72% (98 runs sampled)

#8: regex.js
  kind-of x 10,780,535 ops/sec ±0.75% (95 runs sampled)
  (lib) type-of x 5,380,781 ops/sec ±0.83% (92 runs sampled)
  (lib) typeof x 5,852,558 ops/sec ±0.67% (95 runs sampled)

#9: string.js
  kind-of x 19,713,570 ops/sec ±0.69% (91 runs sampled)
  (lib) type-of x 4,017,753 ops/sec ±0.85% (98 runs sampled)
  (lib) typeof x 4,370,984 ops/sec ±0.62% (100 runs sampled)

#10: undef.js
  kind-of x 23,250,387 ops/sec ±0.88% (91 runs sampled)
  (lib) type-of x 13,725,183 ops/sec ±0.62% (91 runs sampled)
  (lib) typeof x 20,549,334 ops/sec ±0.74% (97 runs sampled)
```
```

```
## Author
```

**\*\*Jon Schlinkert\*\***

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[lightstreamer-client-web@8.0.2](#)

License type: Apache-2.0

# Lightstreamer Client Web SDK #

The Lightstreamer Client Web SDK enables any JavaScript application running in a web browser to communicate bidirectionally with a Lightstreamer server. The API allows to subscribe to real-time data pushed by a server, to display such data, and to send any message to the server.

## Use ##

Install the package using npm

```

npm install lightstreamer-client-web

```

### Available builds ###

The package contains a variety of library formats to suit the needs of the major development flavors. For [TypeScript](https://www.typescriptlang.org) users, the file `types.d.ts` declares the API types exported by the library.

|               | **UMD**   | **CommonJS**   |
|---------------|---|--|
| **ES Module** |   |  |
| ----- -----   |   |  |
|               |   |  |
| **Full**      | lightstreamer.js<br>lightstreamer.min.js<br>lightstreamer.common.js<br>lightstreamer.esm.js                     |  |
| **Core**      | lightstreamer-core.js<br>lightstreamer-core.min.js<br>lightstreamer-core.common.js<br>lightstreamer-core.esm.js | lightstreamer-<br>lightstreamer-<br>lightstreamer-<br>lightstreamer- |

- **Full**: builds with all the modules in the SDK

- **Core**: builds with only core modules (Widgets and Mobile Push Notifications are excluded)

- **UMD**: UMD builds can be used directly in the browser via a `

```

<head>
  <script src="node_modules/lightstreamer-client-web/lightstreamer.min.js" data-
lightstreamer-ns="Ls"></script>
  <script>
    var sub = new Ls.Subscription("MERGE",["item1","item2","item3"],
["stock_name","last_price"]);
    sub.setDataAdapter("QUOTE_ADAPTER");
    sub.setRequestedSnapshot("yes");
    sub.addListener({
      onItemUpdate: function(obj) {
        console.log(obj.getValue("stock_name") + ": " + obj.getValue("last_price"));
      }
    });
    var client = new Ls.LightstreamerClient("http://push.lightstreamer.com","DEMO");
    client.connect();
    client.subscribe(sub);
  </script>
</head>
</html>
```

```

### Require.js ###

To use the API objects as AMD-compliant modules, import [Require.js](http://requirejs.org) loader before importing the client library (you can also use the plain version \*lightstreamer.js\*).

```

```
----- index.html -----

<html>
<head>
  <script src="https://requirejs.org/docs/release/2.3.6/minified/require.js"></script>
  <script src="node_modules/lightstreamer-client-web/lightstreamer.min.js"></script>
  <script>
    require(["LightstreamerClient","Subscription"],
      function(LightstreamerClient,Subscription) {
        var sub = new Subscription("MERGE",["item1","item2","item3"],
["stock_name","last_price"]);
        sub.setDataAdapter("QUOTE_ADAPTER");
        sub.setRequestedSnapshot("yes");
        sub.addListener({
          onItemUpdate: function(obj) {
            console.log(obj.getValue("stock_name") + ": " +
obj.getValue("last_price"));
          }
        });
        var client = new LightstreamerClient("http://push.lightstreamer.com","DEMO");
        client.connect();
        client.subscribe(sub);
      });
  </script>
</head>
</html>
```

```

To set a namespace prefix for the module names, configure the property `ns` of the special module `lightstreamer`.

```

```
----- index.html -----

<html>
<head>
  <script src="https://requirejs.org/docs/release/2.3.6/minified/require.js"></script>
  <script src="node_modules/lightstreamer-client-web/lightstreamer.min.js"></script>

```

```

<script>
require.config({
  config : {
    "lightstreamer" : {
      "ns" : "Ls"
    }
  }
});
require(["Ls/LightstreamerClient","Ls/Subscription"],
  function(LightstreamerClient,Subscription) {
    var sub = new Subscription("MERGE",["item1","item2","item3"],
["stock_name","last_price"]);
    sub.setDataAdapter("QUOTE_ADAPTER");
    sub.setRequestedSnapshot("yes");
    sub.addListener({
      onItemUpdate: function(obj) {
        console.log(obj.getValue("stock_name") + ": " +
obj.getValue("last_price"));
      }
    });
    var client = new LightstreamerClient("http://push.lightstreamer.com","DEMO");
    client.connect();
    client.subscribe(sub);
  });
</script>
</head>
</html>
```

```

### ### ES6 module ###

In modern browsers, you can import the library as an ES6 module.

```

```
<html>
<head>
  <script type="module">
    import {Subscription,LightstreamerClient} from '../node_modules/lightstreamer-
client-web/lightstreamer.esm.js';
    var sub = new Subscription("MERGE",["item1","item2","item3"],
["stock_name","last_price"]);
    sub.setDataAdapter("QUOTE_ADAPTER");
    sub.setRequestedSnapshot("yes");
    sub.addListener({
      onItemUpdate: function(obj) {
        console.log(obj.getValue("stock_name") + ": " + obj.getValue("last_price"));
      }
    });
    var client = new LightstreamerClient("http://push.lightstreamer.com","DEMO");
    client.connect();
    client.subscribe(sub);
  </script>
</head>
</html>
```

```

### ### Webpack ###

A basic usage of [Webpack](https://webpack.js.org) bundler requires the installation of `webpack` and `webpack-cli` packages.

To create the application bundle imported by `index.html`, run the command `webpack` in the directory where `webpack.config.js` resides.

```

```

```

```

----- webpack.config.js -----

```

```

const path = require('path');

```

```

module.exports = {
  mode: 'production',
  entry: './main.js',
  output: {
    filename: 'bundle.js',
    path: path.resolve(__dirname, 'dist')
  }
};

```

----- main.js -----

```

import {Subscription, LightstreamerClient} from 'lightstreamer-client-web';

var sub = new Subscription("MERGE",["item1","item2","item3"],
["stock_name","last_price"]);
sub.setDataAdapter("QUOTE_ADAPTER");
sub.setRequestedSnapshot("yes");
sub.addListener({
  onItemUpdate: function(obj) {
    console.log(obj.getValue("stock_name") + ": " + obj.getValue("last_price"));
  }
});
var client = new LightstreamerClient("http://push.lightstreamer.com","DEMO");
client.connect();
client.subscribe(sub);

```

----- index.html -----

```

<html>
<head>
  <script src="dist/bundle.js"></script>
</head>
</html>
` ``

```

### Rollup.js ###

A basic usage of [Rollup.js](<https://rollupjs.org>) bundler requires the installation of `rollup` and `rollup-plugin-node-resolve` packages. To create the application bundle imported by `index.html`, run the command `rollup -c` in the directory where `rollup.config.js` resides.

` ``

----- rollup.config.js -----

```

import resolve from 'rollup-plugin-node-resolve';

export default {
  input: './main.js',
  output: {
    file: 'dist/bundle.js',
    format: 'iife'
  },
  plugins: [ resolve() ]
};

```

----- main.js -----

```

import {Subscription, LightstreamerClient} from 'lightstreamer-client-web';

var sub = new Subscription("MERGE",["item1","item2","item3"],
["stock_name","last_price"]);
sub.setDataAdapter("QUOTE_ADAPTER");
sub.setRequestedSnapshot("yes");
sub.addListener({
  onItemUpdate: function(obj) {

```

```

        console.log(obj.getValue("stock_name") + ": " + obj.getValue("last_price"));
    }
});
var client = new LightstreamerClient("http://push.lightstreamer.com","DEMO");
client.connect();
client.subscribe(sub);

----- index.html -----

<html>
<head>
    <script src="dist/bundle.js"></script>
</head>
</html>
```

### Browserify ###

A basic usage of [Browserify](http://browserify.org) bundler requires the installation of `browserify` package.
To create the application bundle imported by `index.html`, run the command `browserify main.js -o dist/bundle.js`.

```
----- main.js -----

var Ls = require('lightstreamer-client-web');

var sub = new Ls.Subscription("MERGE",["item1","item2","item3"],
["stock_name","last_price"]);
sub.setDataAdapter("QUOTE_ADAPTER");
sub.setRequestedSnapshot("yes");
sub.addListener({
    onItemUpdate: function(obj) {
        console.log(obj.getValue("stock_name") + ": " + obj.getValue("last_price"));
    }
});
var client = new Ls.LightstreamerClient("http://push.lightstreamer.com","DEMO");
client.connect();
client.subscribe(sub);

----- index.html -----

<html>
<head>
    <script src="dist/bundle.js"></script>
</head>
</html>
```

## Compatibility ##

The library requires Server 7.1 and breaks the compatibility with Server version 7.0.
*However, if Web Push Notifications are not used, compatibility with Server version 7.0 is still ensured.*

## Documentation ##

- [API Reference](https://lightstreamer.com/api/ls-web-client/8.0.2)
- [Demos](https://demos.lightstreamer.com)

## FAQ ##

**Q: The library is too big. Is there a way to make it smaller?**

You can build a custom library comprising only the modules you need. Refer to the [Github project](https://github.com/Lightstreamer/Lightstreamer-lib-client-javascript)

```

for further information.

### [load-json-file@2.0.0](#)

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[lru-cache@4.1.5](#)

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[makeerror@1.0.11](#)

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[map-age-cleaner@0.1.3](#)

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# Metro Config

Config resolver and transformer for [Metro] (<https://facebook.github.io/metro/>).

metro-core@0.56.4

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# Metro

This package contains core files for [Metro] (<https://facebook.github.io/metro/>).

(TODO)

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metro-react-native-babel-preset@0.56.4

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# metro-react-native-babel-preset

Babel presets for React Native applications. React Native itself uses this Babel preset by default when transforming your app's source code.

If you wish to use a custom Babel configuration by writing a `.babelrc` file in your project's root directory, you must specify all the plugins necessary to transform your code. React Native does not apply its default Babel configuration in this case. So, to make your life easier, you can use this preset to get the default configuration and then specify more plugins that run before it.

## Usage

As mentioned above, you only need to use this preset if you are writing a custom `.babelrc` file.

### Installation

Install `metro-react-native-babel-preset` in your app:

```
``sh
```

```
npm i metro-react-native-babel-preset --save-dev
```

```
````
```

### ### Configuring Babel

Then, create a file called ``.babelrc`` in your project's root directory. The existence of this ``.babelrc`` file will tell React Native to use your custom Babel configuration instead of its own. Then load this preset:

```
...  
{  
  "presets": ["module:metro-react-native-babel-preset"]  
}  
...
```

You can further customize your Babel configuration by specifying plugins and other options. See [Babel's ``.babelrc`` documentation](<https://babeljs.io/docs/usage/babelrc/>) to learn more.

### ## Help and Support

If you get stuck configuring Babel, please ask a question on Stack Overflow or find a consultant for help. If you discover a bug, please open up an issue.

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# metro-resolver

🍏 [Metro] (<https://facebook.github.io/metro/>) resolution logic

[metro-source-map@0.56.4](#)

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# Metro

🍏 The source map generator for [Metro] (<https://facebook.github.io/metro/>).

(TODO)

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# Metro

🍏 The JavaScript bundler for React Native.

- \*\*🍏 Fast\*\*: We aim for sub-second reload cycles, fast startup and quick bundling speeds.

- **\*\*Scalable\*\***: Works with thousands of modules in a single application.
- **\*\*Integrated\*\***: Supports every React Native project out of the box.

This project was previously part of the [react-native](https://github.com/facebook/react-native) repository. In this smaller repository it is easier for the team working on Metro Bundler to respond to both issues and pull requests. See [react-native#13976](https://github.com/facebook/react-native/issues/13976) for the initial announcement.

[micromatch@3.1.10](#)

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number-is-nan@1.0.1

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[options@0.0.6](#)

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# options.js #

A very light-weight in-code option parsers for node.js.

## Usage ##

```
``` js
var Options = require("options");

// Create an Options object
function foo(options) {
    var default_options = {
        foo : "bar"
    };

    // Create an option object with default value
    var opts = new Options(default_options);

    // Merge options
    opts = opts.merge(options);

    // Reset to default value
    opts.reset();

    // Copy selected attributes out
    var seled_att = opts.copy("foo");

    // Read json options from a file.
    opts.read("options.file"); // Sync
    opts.read("options.file", function(err){ // Async
        if(err){ // If error occurs
            console.log("File error.");
        }else{
            // No error
        }
    });

    // Attributes defined or not
    opts.isDefinedAndNonNull("foobar");
    opts.isDefined("foobar");
}
```
```

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`react-clone-referenced-element@1.1.0`

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`react-devtools-core@3.6.3`

License type: BSD-3-Clause

# `react-devtools-core`

A standalone React DevTools implementation.

This is a low-level package.

\*\*If you're looking for the Electron app you can run, use `react-devtools` package instead.\*\*

## Exports

## `require('react-devtools-core').connectToDevTools(options)`

This is similar to `require('react-devtools')` in another package but providing more control.

Unlike `require('react-devtools')`, it doesn't connect immediately, but exports a function.

Run `connectToDevTools()` in the same context as React to set up a connection to DevTools.

Make sure this runs *before* any `react`, `react-dom`, or `react-native` imports.

The `options` object may contain:

- \* `host` (string), defaults to `'localhost'`.
- \* `port` (number), defaults to `8097`.
- \* `resolveRNStyle` (function), used by RN and `null` by default.

None of the options are required.

## `require('react-devtools-core/standalone')`

Lets you render DevTools into a DOM node and have it listen to connections.

For example:

```
```js
require('react-devtools-core/standalone')
  .setContentDOMNode(document.getElementById('container'))
  .startServer(port);
```
```

You can check the Electron shell in `react-devtools` package for a complete integration example.

[react-is@16.12.0](#)

License type: MIT

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### react-native-animatable@1.3.3

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### react-native-extended-stylesheet@0.8.0

License type: MIT

# React Native Extended StyleSheet

[![Build Status](https://travis-ci.org/vitalets/react-native-extended-stylesheet.svg?branch=master)](https://travis-ci.org/vitalets/react-native-extended-stylesheet)  
[![Coverage Status](https://coveralls.io/repos/github/vitalets/react-native-extended-stylesheet/badge.svg?branch=master)](https://coveralls.io/github/vitalets/react-native-extended-stylesheet?branch=master)  
[![npm version](https://badge.fury.io/js/react-native-extended-stylesheet.svg)](https://badge.fury.io/js/react-native-extended-stylesheet)

[![license](https://img.shields.io/npm/l/react-native-extended-stylesheet.svg)](https://www.npmjs.com/package/react-native-extended-stylesheet)

Drop-in replacement of [React Native StyleSheet](https://facebook.github.io/react-native/docs/stylesheet.html) with media-queries, variables, dynamic themes, relative units, percents, math operations, scaling and other styling stuff.



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## ## Installation

```
npm i react-native-extended-stylesheet --save
```

## ## Usage

1. Define styles using `EStyleSheet.create()` instead of `StyleSheet.create()`:

```
```js
/* component.js */
import EStyleSheet from 'react-native-extended-stylesheet';

// define extended styles
const styles = EStyleSheet.create({
  column: {
    width: '80%' // 80% of screen width
  },
  text: {
    color: '$textColor', // global variable $textColor
    fontSize: '1.5rem' // relative REM unit
  },
  '@media (min-width: 350) and (max-width: 500)': { // media queries
    text: {
      fontSize: '2rem',
    }
  }
});

// use styles as usual
```



```

class MyComponent extends React.Component {
  render() {
    return (
      <View style={styles.column}>
        <Text style={styles.text}>Hello</Text>
      </View>
    );
  }
}
...

```

2. In app entry point call `EStyleSheet.build()` to actually calculate styles:

```

```js
/* app.js */
import EStyleSheet from 'react-native-extended-stylesheet';

EStyleSheet.build({ // always call EStyleSheet.build() even if you don't use global
variables!
  $textColor: '#0275d8'
});
```

```

```

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```

## Features

### Global variables

Global variables are passed to `EStyleSheet.build()` and available in all stylesheets.

```

```js
// app entry: set global variables and calc styles
EStyleSheet.build({
  $textColor: '#0275d8'
});

```

```

// component: use global variables
const styles = EStyleSheet.create({
  text: {
    color: '$textColor'
  }
});
```

```

```

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```

### Local variables

Local variables can be defined directly in stylesheets and have priority over global variables.

To define local variable just start it with `\$`:

```

```js
const styles = EStyleSheet.create({
  $textColor: '#0275d8',
  text: {
    color: '$textColor'
  },
  icon: {
    color: '$textColor'
  },
});
```

```

Local variables are also available in result style: `styles.\$textColor`.

```

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```

### Theming

Changing app theme contains two steps:

1. re-build app styles
2. re-render components tree with new styles

To re-build app styles you can call `EStyleSheet.build()` with new set of global

```

variables:
  ``js
EStyleSheet.build({
  $theme: 'light', // required variable for caching!
  $bgColor: 'white',
});
  ...

```

> Please note that special variable `**`$theme`` is required\*\* for proper caching of calculated styles.

Re-rendering whole component tree is currently a bit tricky in React.

One option is to wrap app into component and re-mount it on theme change:

```

  ``js
  toggleTheme() {
    const theme = EStyleSheet.value('$theme') === 'light' ? darkTheme : lightTheme;
    EStyleSheet.build(theme);
    this.setState({render: false}, () => this.setState({render: true}));
  }
  render() {
    return this.state.render ? <App/> : null;
  }
  ...

```

The caveat is that all components loss their state.

In the future it may be possible with ``forceDeepUpdate()`` method (see [facebook/react#7759](https://github.com/facebook/react/issues/7759)).

The approach is open for discusison, feel free to share your ideas in [#22](https://github.com/vitalets/react-native-extended-stylesheet/issues/22), [#47](https://github.com/vitalets/react-native-extended-stylesheet/issues/47).

Full theming example is [here](examples/theming).

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### ### Media queries

Media queries allows to have different styles for different screens, platform and orienation.

They are supported as properties with ``@media`` prefix (thanks for idea to [@grabbou](https://github.com/grabbou), [#5](https://github.com/vitalets/react-native-extended-stylesheet/issues/5)).

Media queries can operate with the following values:

```

* media type: `ios|android`
* `width`, `min-width`, `max-width`
* `height`, `min-height`, `max-height`
* `orientation` (`landscape|portrait`)
* `aspect-ratio`

```

You can use media queries on:

```

* global level
* sheet level
* style level

```

Examples:

```

  ``js
  // global level
  EStyleSheet.build({
    '@media ios': {
      $fontSize: 12,
    },
    '@media android': {
      $fontSize: 16,
    },
  });

  // sheet level
  const styles = EStyleSheet.create({
    column: {

```

```

    width: '80%',
  },
  '@media (min-width: 350) and (max-width: 500)': {
    column: {
      width: '90%',
    }
  }
});

```

```

// style level
const styles = EStyleSheet.create({
  header: {
    '@media ios': {
      color: 'green',
    },
    '@media android': {
      color: 'blue',
    },
  }
});

```

See full example [here](examples/media-queries).  
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### Math operations

Any value can contain **one** of following math operations: ``*``, ``/``, ``+``, ``-``. Operands can be numbers, variables and percents.

For example, to render circle you may create style:

```

```js
const styles = EStyleSheet.create({
  $size: 20,
  circle: {
    width: '$size',
    height: '$size',
    borderRadius: '0.5 * $size'
  }
});

```

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### REM units

Similar to [CSS3 rem unit](http://snook.ca/archives/html\_and\_css/font-size-with-rem) it allows to define any integer value as relative to the root element. In our case root value is special ``rem`` global variable that can be set in `EStyleSheet.build()`. It makes easy to scale app depending on screen size and other conditions. Default rem is ``16``.

```

```js
// component
const styles = EStyleSheet.create({
  text: {
    fontSize: '1.5rem',
    marginHorizontal: '2rem'
  }
});
// app entry
let {height, width} = Dimensions.get('window');
EStyleSheet.build({
  rem: width > 340 ? 18 : 16
});

```

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### Percents

Percent values are supported natively since React Native 0.43.

EStyleSheet passes them through to original StyleSheet except cases, when you use calculations with percents, e.g. ``"100% - 20%"``. Percents are calculated relative to **screen width/height** on

application launch.

```
```js
const styles = EStyleSheet.create({
  column: {
    width: '100% - 20'
  }
});
```
```

**\*\*Percents in nested components\*\***

If you need sub-component with percent operations relative to parent component - you can achieve that with variables.

For example, to render 2 sub-columns with 30%/70% width of parent column:

```
```js
render() {
  return (
    <View style={styles.column}>
      <View style={styles.subColumnLeft}></View>
      <View style={styles.subColumnRight}></View>
    </View>
  );
}
```

...

```
const styles = EStyleSheet.create({
  $columnWidth: '80%',
  column: {
    width: '$columnWidth',
    flexDirection: 'row'
  },
  subColumnLeft: {
    width: '0.3 * $columnWidth'
  },
  subColumnRight: {
    width: '0.7 * $columnWidth'
  }
});
```
```

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### Scaling

You can apply scale to components by setting special ``$scale`` variable.

```
```js
const styles = EStyleSheet.create({
  $scale: 1.5,
  button: {
    width: 100,
    height: 20,
    marginLeft: 10
  }
});
```
```

This helps to create reusable components that could be scaled depending on prop:

```
```js
class Button extends React.Component {
  static propTypes = {
    scale: React.PropTypes.number
  };
  render() {
    let style = getStyle(this.props.scale)
    return (
      <View style={style.button}>
        </View>
    );
  }
}
```

```

let getStyle = function (scale = 1) {
  return EStyleSheet.create({
    $scale: scale,
    button: {
      width: 100,
      height: 20,
      marginLeft: 10
    }
  });
}
...

```

To cache calculated styles please have a look on [caching](#caching) section.  
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### ### Underscored styles

Original react-native stylesheets are calculated to integer numbers and original values are unavailable.

But sometimes they are needed. Let's take an example:

You want to render text and icon with the same size and color.

You can take this [awesome icon library](https://github.com/oblador/react-native-vector-icons)

and see that `` component has `size` and `color` props.

It would be convenient to define style for text and keep icon's size/color in sync.

```

```js
const styles = EStyleSheet.create({
  text: {
    fontSize: '1rem',
    color: 'gray'
  }
});
...

```

In runtime `styles` created with original react's `StyleSheet` will look like:

```

```js
styles = {
  text: 0
}
...

```

But extended stylesheet saves calculated values under `\_text` property:

```

```js
styles = {
  text: 0,
  _text: {
    fontSize: 16,
    color: 'gray'
  }
}
...

```

To render icon we just take styles from `\_text`:

```

```js
return (
  <View>
    <Icon name="rocket" size={styles._text.fontSize} color={styles._text.color} />
    <Text style={styles.text}>Hello</Text>
  </View>
);
...

```

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### ### Pseudo classes (:nth-child)

Extended stylesheet supports 4 pseudo classes: `:first-child`, `:nth-child-even`, `:nth-child-odd`, `:last-child`. As well as in traditional CSS it allows to apply special styling for first/last items or render stripped rows.

To get style for appropriate index you should use `EStyleSheet.child()` method.

It's signature: `EStyleSheet.child(stylesObj, styleName, index, count)`.

```

```js
const styles = EStyleSheet.create({

```

```

    row: {
      fontSize: '1.5rem',
      borderTopWidth: 1
    },
    'row:nth-child-even': {
      backgroundColor: 'gray' // make stripped
    },
    'row:last-child': {
      borderBottomWidth: 1 // render bottom edge for last row
    }
  });
  ...
  render() {
    return (
      <View>
        {items.map((item, index) => {
          return (
            <View key={index} style={EStyleSheet.child(styles, 'row', index,
items.length)}></View>
          );
        })}
      </View>
    );
  }
  ...

```

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### ### Value as a function

For the deepest customization you can specify any value as a function that will be executed on EStyleSheet build.

For example, you may *\*darken\** or *\*lighten\** color of variable via [npm color package] (<https://www.npmjs.com/package/color>):

```

```js
import Color from 'color';
import EStyleSheet from 'react-native-extended-stylesheet';

EStyleSheet.build({
  $buttonColor: 'green'
});
...
const styles = EStyleSheet.create({
  button: {
    backgroundColor: () =>
Color(EStyleSheet.value('$buttonColor')).darken(0.1).hexString()
  }
});
...
render() {
  return (
    <TouchableHighlight style={styles.button}>
      ...
    </TouchableHighlight>
  );
}
```

```

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### ### Caching

If you use dynamic styles depending on runtime prop or you are making reusable component with dynamic styling

you may need stylesheet creation in every ``render()`` call. Let's take example from [scaling](#scaling) section:

```

```js
class Button extends React.Component {
  static propTypes = {
    scale: React.PropTypes.number
  };

```

```

render() {
  let style = getStyle(this.props.scale)
  return (
    <View style={style.button}>
    </View>
  );
}
}

```

```

let getStyle = function (scale = 1) {
  return EStyleSheet.create({
    $scale: scale,
    button: {
      width: 100,
      height: 20,
      marginLeft: 10
    }
  });
}

```

To avoid creating styles on every render you can use [lodash.memoize](<https://www.npmjs.com/package/lodash.memoize>): store result for particular parameters and returns it from cache when called with the same parameters.

Updated example:

```

```js
import memoize from 'lodash.memoize';

let getStyle = memoize(function (scale = 1) {
  return EStyleSheet.create({
    $scale: scale,
    button: {
      width: 100,
      height: 20,
      marginLeft: 10
    }
  });
});

```

Now if you call `getStyle(1.5)` 3 times actually style will be created on the first call and two other calls will get it from cache.

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### Outline for debug

It is possible to outline all components that are using EStyleSheet. For that set global `\$outline` variable:

```

```js
EStyleSheet.build({$outline: 1});

```

> Note that components without styles will not be outlined, because RN [does not support](<https://github.com/facebook/react-native/issues/1768>) default component styling yet.

To outline particular component set local `\$outline` variable:

```

```js
const styles = EStyleSheet.create({
  $outline: 1,
  column: {
    width: '80%',
    flexDirection: 'row'
  },
  ...
});

```

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### Hot module reload

[Hot module reload (HMR)](<https://facebook.github.io/react-native/blog/2016/03/24/introducing-hot-reloading.html>) allows you to change code and see live updates without losing app state. It is very handy for tuning styles. EStyleSheet supports HMR with the following options:

1. When you change style of component - the component is updated by HMR automatically without any effort from your side.
2. When you change global variable or theme - you should use [HMR API](<https://facebook.github.io/react-native/releases/next/#hmr-api>)

to force style re-calculation:

```
```js
// app.js
EStyleSheet.build({
  $fontColor: 'black'
});

...

module.hot.accept(() => {
  EStyleSheet.clearCache();
  EStyleSheet.build(); // force style re-calculation
});
```
```

See full example of HMR [here]([examples/hmr](#)).

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## EStyleSheet API

### .create()

```
```js
/**
 * Creates extended stylesheet object
 *
 * @param {Object} source style
 * @returns {Object} extended stylesheet object
 */
create (source) {...}
```
```

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### .build()

```
```js
/**
 * Calculates all stylesheets
 *
 * @param {Object} [globalVars] global variables for all stylesheets
 */
build (globalVars) {...}
```
```

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### .value()

```
```js
/**
 * Calculates particular value
 *
 * @param {*} value
 * @param {String} [prop] property for which value is calculated. Needed for example for
percent values.
 * @returns {*} calculated result
 */
value (value, prop) {...}
```
```

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### .child()

```
```js
```



```
/**
 * Returns styles with pseudo classes :first-child, :nth-child-even, :last-child
 * according to index and count
 *
 * @param {Object} stylesheet
 * @param {String} styleName
 * @param {Number} index index of item for style
 * @param {Number} count total count of items
 * @returns {Object|Array} styles
 */
child (styles, styleName, index, count) {...}
...

```

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```
### .subscribe()
```js
/**
 * Subscribe to events. Currently only 'build' event is supported
 *
 * @param {String} event
 * @param {Function} listener
 */
subscribe (event, listener) {...}
...

```

This method is useful when you want to pre-render some component on init. As extended style is calculated after call of `EStyleSheet.build()`, it is not available instantly after creation so you should wrap pre-render info listener to `build` event:

```
```js
const styles = EStyleSheet.create({
  button: {
    width: '80%',
  }
});

// this will NOT work as styles.button is not calculated yet
let Button = <View style={styles.button}></View>;

// but this will work
let Button;
EStyleSheet.subscribe('build', () => {
  Button = <View style={styles.button}></View>;
});
...

```

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## ## Caveats

1. *\*Hot module reload is not supported yet\**  
Hot module reload requires all components to be re-rendered and keep local state. Please follow [#16] for updates.
2. *\*Dynamic theme change is possible only with loosing components local state\**  
When theme styles are re-calculated - all components should be re-rendered. Currently it can be done via re-mounting components tree, please see [#47].  
> Note: it is not issue if you are using state container like [Redux] (<https://github.com/reactjs/redux>)
3. *\*Dynamic orientation change is not processed\**  
Please see [#9] for more details.

## ## Changelog

Please see [CHANGELOG.md] (CHANGELOG.md)

## ## Feedback

If you have any ideas or something goes wrong feel free to [open new issue] (<https://github.com/vitalets/react-native-extended-stylesheet/issues/>)

```
new).

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[#9]: https://github.com/vitalets/react-native-extended-stylesheet/issues/8
[#16]: https://github.com/vitalets/react-native-extended-stylesheet/issues/16
[#47]: https://github.com/vitalets/react-native-extended-stylesheet/issues/47
```

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[react-native-ssdp@2.8.2](#)

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# SSDP fork for React Native from node

This is a fork of `node-ssdp` that uses `react-native-udp` instead of `dgram` to enable react multicast messaging and plain socket control. The API is the same as in the forked version.

<a href="https://getyeti.co" target="\_blank">  
   
</a>

>-†This package powers [Yeti Smart Home](https://getyeti.co) and is used in production. It is maintained with our developers's free time, PRs and issues are more than welcome.

## Installation

Unless React Native Version is > 0.29 use rnpm else use react-native link.

```
```javascript
npm install react-native-ssdp
rnpm link
```
```

Make sure you set `Buffer` as global in `react-native-udp`'s UdpSockets.js (noted filename end with letter s)

```
```javascript
global.Buffer = global.Buffer || require('buffer').Buffer
```
```

## Things to take note

Make sure you close all the sockets you open and never try to reopen one already open, mobile OSs and React Native are very aggressive both with security and performance, so a misuse could kill your process.

## Usage (Android)

### android/settings.gradle

```
```gradle
...
include ':react-native-udp'
project(':react-native-udp').projectDir = new File(settingsDir, '../node_modules/react-native-udp/android')
include ':react-native-network-info'
project(':react-native-network-info').projectDir = new File(settingsDir, '../node_modules/react-native-network-info/android')
```
```

### android/app/build.gradle

```
```gradle
...
dependencies {
    ...
    compile project(':react-native-udp')
    compile project(':react-native-network-info')
}
```
```

### register module in MainActivity.java

#### For RN 0.19.0 and higher

```
```java
import com.tradle.react.UdpSocketsModule; // <--- import
import com.pusherman.networkinfo.RNNetworkInfoPackage; // <--- import

public class MainActivity extends ReactActivity {
    // ...
    @Override
    protected List<ReactPackage> getPackages() {
        return Arrays.<ReactPackage>asList(
            new MainReactPackage(), // <---- add comma
            new UdpSocketsModule(), // <---- add package
            new RNNetworkInfoPackage() // <----- add package
        );
    }
}
```
```

#### For react-native 0.29.0 and higher ( in MainApplication.java )

```
```java
import com.tradle.react.UdpSocketsModule; // <--- import
import com.pusherman.networkinfo.RNNetworkInfoPackage; // <--- import
```

```

public class MainApplication extends Application implements ReactApplication {
    // ...
    @Override
    protected List<ReactPackage> getPackages() {
        return Arrays.<ReactPackage>asList(
            new MainReactPackage(), // <---- add comma
            new UdpSocketsModule(), // <---- add package
            new RNNetworkInfoPackage() <---- add package
        );
    }
}

```

## Usage (iOS)

### Adding with CocoaPods

Add the RNFS pod to your list of applications pods in your podfile, using the path from the Podfile to the installed module.

```

...
pod 'RNUdp', :path => './node_modules/react-native-udp'
pod 'RNNetworkInfo', :path => './node_modules/react-native-network-info'
...

```

Install pods as usual:

```

...
pod install
...

```

### Adding manually in Xcode

In Xcode, in the project navigator, right click Libraries ,û Add Files to [your project's name] Go to node\_modules ,û react-native-fs and add the .xcodproj file

In Xcode, in the project navigator, select your project. Add the `lib\*.a` from the RNFS project to your project's Build Phases ,û Link Binary With Libraries. Click the .xcodproj file you added before in the project navigator and go the Build Settings tab. Make sure 'All' is toggled on (instead of 'Basic'). Look for Header Search Paths and make sure it contains both `\$(SRCROOT)/../react-native/React` and `\$(SRCROOT)/../../React` - mark both as recursive.

Run your project (Cmd+R)

**\*\*Note:\*\*** Library uses these installed native\_modules internally for sockets communication.

## Usage - Client

```

```javascript
var Client = require('react-native-ssdp').Client
, client = new Client();

client.on('response', function (headers, statusCode, rinfo) {
    console.log('Got a response to an m-search.');
```

## Usage - Server



```

```javascript
var Server = require('react-native-ssdp').Server
  , server = new Server()
  ;

server.addUSN('upnp:rootdevice');
server.addUSN('urn:schemas-upnp-org:device:MediaServer:1');
server.addUSN('urn:schemas-upnp-org:service:ContentDirectory:1');
server.addUSN('urn:schemas-upnp-org:service:ConnectionManager:1');

server.on('advertise-alive', function (headers) {
  // Expire old devices from your cache.
  // Register advertising device somewhere (as designated in http headers heads)
});

server.on('advertise-bye', function (headers) {
  // Remove specified device from cache.
});

// start the server
server.start();

process.on('exit', function(){
  server.stop() // advertise shutting down and stop listening
})
...

```

# Legacy docs from the forked repo

Take a look at `example` directory as well to see examples of client and server.

##Configuration

`new SSDP([options, [socket]])`

SSDP constructor accepts an optional configuration object and an optional initialized socket. At the moment, the following is supported:

- `ssdpSig` \_String\_ SSDP signature. Default: `node.js/NODE\_VERSION UPnP/1.1 node-ssdp/PACKAGE\_VERSION`
- `ssdpIp` \_String\_ SSDP multicast group. Default: `239.255.255.250`.
- `ssdpPort` \_Number\_ SSDP port. Default: `1900`
- `ssdpTtl` \_Number\_ Multicast TTL. Default: `1`
- `adInterval` \_Number\_ `advertise` event frequency (ms). Default: 10 sec.
- `unicastHost` \_String\_ IP address or hostname of server where SSDP service is running. This is used in `HOST` header. Default: `0.0.0.0`.
- `location` \_String\_ URL pointing to description of your service, or a function which returns that URL
- `udn` \_String\_ Unique Device Name. Default: `uuid:f40c2981-7329-40b7-8b04-27f187aecfb5`.
- `description` \_String\_ Path to description file. Default: `upnp/desc.php`.
- `ttl` \_Number\_ Packet TTL. Default: `1800`.
- `allowWildcards` \_Boolean\_ Accept wildcards (`\*`) in `serviceTypes` of `M-SEARCH` packets, e.g. `usn:Belkin:device:\*`. Default: `false`

###Logging

You can enable logging via an environment variable `DEBUG`. Set `DEBUG=node-ssdp\*` to enable all logs. To enable only client or server logs, use `DEBUG=node-ssdp:client` or `DEBUG=node-ssdp:server` respectively.

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### [realm@3.6.3](#)

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## regjsparser@0.6.2

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[require-directory@2.1.1](#)

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[require-main-filename@1.0.1](#)

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[requires-port@1.0.0](#)



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[reselect@4.0.0](#)

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[resolve-from@3.0.0](#)

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[resolve@1.15.1](#)

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[restore-cursor@2.0.0](#)

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[rimraf@2.7.1](#)

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[rsvp@4.8.5](#)

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## run-async@2.3.0

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## rx-lite-aggregates@4.0.8

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# RxJS Aggregates Module #

The Reactive Extensions for JavaScript has a number of aggregation operators including those you might already know from the Array#extras and the upcoming ES6 standard such as `reduce`, `find` and `findIndex`. This module is used exclusively for aggregation operations used on finite observable sequences. In addition to the aforementioned operators, there are many useful operators such as `count`, `sum`, `average` and determining whether two sequences are equal via the `sequenceEqual` method. This requires `rx.lite.js` from the [`rx-lite`](https://www.npmjs.com/package/rx-lite) NPM module.

## Getting Started

There are a number of ways to get started with RxJS.

### Installing with [NPM](https://npmjs.org/)

```
```bash
$ npm install rx-lite-aggregates
$ npm install -g rx-lite-aggregates
```
```

### Using with Node.js and Ringo.js

```
```js
var Rx = require('rx-lite-aggregates');
```

### In a Browser:

```
```html
<!-- Just the core RxJS -->
<script src="path/to/rx.lite.js"></script>
<script src="path/to/rx.lite.aggregates.js"></script>
```
```

## Included Observable Operators ##

### `Observable Instance Methods`

- [``aggregate``](../../doc/api/core/operators/reduce.md)
- [``all``](../../doc/api/core/operators/every.md)
- [``any``](../../doc/api/core/operators/some.md)
- [``average``](../../doc/api/core/operators/average.md)
- [``includes``](../../doc/api/core/operators/includes.md)
- [``count``](../../doc/api/core/operators/count.md)
- [``elementAt``](../../doc/api/core/operators/elementat.md)
- [``elementAtOrDefault``](../../doc/api/core/operators/elementatordefault.md)
- [``every``](../../doc/api/core/operators/every.md)
- [``find``](../../doc/api/core/operators/find.md)
- [``findIndex``](../../doc/api/core/operators/findindex.md)
- [``first``](../../doc/api/core/operators/first.md)
- [``firstOrDefault``](../../doc/api/core/operators/firstordefault.md)
- [``indexOf``](../../doc/api/core/operators/indexof.md)
- [``isEmpty``](../../doc/api/core/operators/isempty.md)
- [``last``](../../doc/api/core/operators/last.md)
- [``lastOrDefault``](../../doc/api/core/operators/lastordefault.md)
- [``max``](../../doc/api/core/operators/max.md)
- [``maxBy``](../../doc/api/core/operators/maxby.md)
- [``min``](../../doc/api/core/operators/min.md)
- [``minBy``](../../doc/api/core/operators/minby.md)
- [``reduce``](../../doc/api/core/operators/reduce.md)
- [``sequenceEqual``](../../doc/api/core/operators/sequenceequal.md)
- [``single``](../../doc/api/core/operators/single.md)
- [``singleOrDefault``](../../doc/api/core/operators/singleordefault.md)
- [``some``](../../doc/api/core/operators/some.md)
- [``sum``](../../doc/api/core/operators/sum.md)
- [``toMap``](../../doc/api/core/operators/tomap.md)
- [``toSet``](../../doc/api/core/operators/toset.md)

## Contributing ##

There are lots of ways to contribute to the project, and we appreciate our [contributors](https://github.com/Reactive-Extensions/RxJS/wiki/Contributors). If you wish to contribute, check out our [style guide](https://github.com/Reactive-Extensions/RxJS/tree/master/doc/contributing).

You can contribute by reviewing and sending feedback on code checkins, suggesting and trying out new features as they are implemented, submit bugs and help us verify fixes as they are checked in, as well as submit code fixes or code contributions of your own. Note that all code submissions will be rigorously reviewed and tested by the Rx Team, and only those that meet an extremely high bar for both quality and design/roadmap appropriateness will be merged into the source.

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rx-lite@4.0.8

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# RxJS Lite Module #

The Reactive Extensions for JavaScript Lite version is a lightweight version of the Reactive Extensions for JavaScript which covers most of the day to day operators you might use all in a single library. Functionality such as bridging to events, promises, callbacks, Node.js-style callbacks, time-based operations and more are built right in. This comes with `rx.lite.js` which is for use in modern development environments such as > IE9 and server-side environments such as Node.js.

## Getting Started

There are a number of ways to get started with RxJS.

### Installing with [NPM] (<https://npmjs.org/>)

```
```bash`  
$ npm install rx-lite  
$ npm install -g rx-lite  
```
```

### Using with Node.js and Ringo.js

```
```js  
var Rx = require('rx-lite');  
```
```

### In a Browser:

```
```html  
<!-- Just the core RxJS -->  
<script src="path/to/rx.lite.js"></script>  
```
```

## Included Observable Operators ##

### `Observable Methods`

- [ `catch` | `catchException` ](../../doc/api/core/operators/catch.md)`
- [ `concat` ](../../doc/api/core/operators/concat.md)
- [ `create` | `createWithDisposable` ](../../doc/api/core/operators/create.md)`
- [ `defer` ](../../doc/api/core/operators/defer.md)
- [ `empty` ](../../doc/api/core/operators/empty.md)
- [ `from` ](../../doc/api/core/operators/from.md)
- [ `fromArray` ](../../doc/api/core/operators/fromarray.md)
- [ `fromCallback` ](../../doc/api/core/operators/fromcallback.md)
- [ `fromEvent` ](../../doc/api/core/operators/fromevent.md)
- [ `fromEventPattern` ](../../doc/api/core/operators/fromeventpattern.md)
- [ `fromNodeCallback` ](../../doc/api/core/operators/fromnodecallback.md)
- [ `fromPromise` ](../../doc/api/core/operators/frompromise.md)
- [ `interval` ](../../doc/api/core/operators/interval.md)
- [ `just` ](../../doc/api/core/operators/return.md)
- [ `merge` ](../../doc/api/core/operators/merge.md)
- [ `mergeDelayError` ](../../doc/api/core/operators/mergedelayerror.md)
- [ `never` ](../../doc/api/core/operators/never.md)
- [ `of` ](../../doc/api/core/operators/of.md)
- [ `ofWithScheduler` ](../../doc/api/core/operators/ofwithscheduler.md)
- [ `range` ](../../doc/api/core/operators/range.md)
- [ `repeat` ](../../doc/api/core/operators/repeat.md)
- [ `return` | `returnValue` ](../../doc/api/core/operators/return.md)`
- [ `throw` | `throwError` | throwException` ](../../doc/api/core/operators/throw.md)`
- [ `timer` ](../../doc/api/core/operators/timer.md)
- [ `zip` ](../../doc/api/core/operators/zip.md)
- [ `zipArray` ](../../doc/api/core/operators/ziparray.md)

### ### `Observable Instance Methods`

- [`asObservable``](../../doc/api/core/operators/asobservable.md)
- [`catch | catchException``](../../doc/api/core/operators/catchproto.md)
- [`combineLatest``](../../doc/api/core/operators/combineatest.md)
- [`concat``](../../doc/api/core/operators/concatproto.md)
- [`concatMap``](../../doc/api/core/operators/concatmap.md)
- [`connect``](../../doc/api/core/operators/connect.md)
- [`debounce``](../../doc/api/core/operators/debounce.md)
- [`defaultIfEmpty``](../../doc/api/core/operators/defaultifempty.md)
- [`delay``](../../doc/api/core/operators/delay.md)
- [`dematerialize``](../../doc/api/core/operators/dematerialize.md)
- [`distinctUntilChanged``](../../doc/api/core/operators/distinctuntilchanged.md)
- [`do | doAction``](../../doc/api/core/operators/do.md)
- [`doOnNext``](../../doc/api/core/operators/doonnext.md)
- [`doOnError``](../../doc/api/core/operators/doonerror.md)
- [`doOnCompleted``](../../doc/api/core/operators/dooncompleted.md)
- [`filter``](../../doc/api/core/operators/where.md)
- [`finally | finallyAction``](../../doc/api/core/operators/finally.md)
- [`flatMap``](../../doc/api/core/operators/selectmany.md)
- [`flatMapLatest``](../../doc/api/core/operators/flatmaplatest.md)
- [`ignoreElements``](../../doc/api/core/operators/ignoreelements.md)
- [`map``](../../doc/api/core/operators/select.md)
- [`merge``](../../doc/api/core/operators/mergeproto.md)
- [`mergeObservable | mergeAll``](../../doc/api/core/operators/mergeall.md)
- [`multicast``](../../doc/api/core/operators/multicast.md)
- [`publish``](../../doc/api/core/operators/publish.md)
- [`publishLast``](../../doc/api/core/operators/publishlast.md)
- [`publishValue``](../../doc/api/core/operators/publishvalue.md)
- [`refCount``](../../doc/api/core/operators/refcount.md)
- [`repeat``](../../doc/api/core/operators/repeat.md)
- [`replay``](../../doc/api/core/operators/replay.md)
- [`retry``](../../doc/api/core/operators/retry.md)
- [`retryWhen``](../../doc/api/core/operators/retrywhen.md)
- [`sample``](../../doc/api/core/operators/sample.md)
- [`scan``](../../doc/api/core/operators/scan.md)
- [`select``](../../doc/api/core/operators/select.md)
- [`selectConcat``](../../doc/api/core/operators/concatmap.md)
- [`selectMany``](../../doc/api/core/operators/selectmany.md)
- [`selectSwitch``](../../doc/api/core/operators/flatmaplatest.md)
- [`singleInstance``](../../doc/api/core/operators/singleinstance.md)
- [`skip``](../../doc/api/core/operators/skip.md)
- [`skipLast``](../../doc/api/core/operators/skiplast.md)
- [`skipUntil``](../../doc/api/core/operators/skipuntil.md)
- [`skipWhile``](../../doc/api/core/operators/skipwhile.md)
- [`startWith``](../../doc/api/core/operators/startwith.md)
- [`subscribe | forEach``](../../doc/api/core/operators/subscribe.md)
- [`subscribeOnNext``](../../doc/api/core/operators/subscribeonnext.md)
- [`subscribeOnError``](../../doc/api/core/operators/subscribeonerror.md)
- [`subscribeOnCompleted``](../../doc/api/core/operators/subscribeoncompleted.md)
- [`switch | switchLatest``](../../doc/api/core/operators/switch.md)
- [`take``](../../doc/api/core/operators/take.md)
- [`takeLast``](../../doc/api/core/operators/takelast.md)
- [`takeUntil``](../../doc/api/core/operators/takeuntil.md)
- [`takeWhile``](../../doc/api/core/operators/takewhile.md)
- [`tap``](../../doc/api/core/operators/do.md)
- [`tapOnNext``](../../doc/api/core/operators/doonnext.md)
- [`tapOnError``](../../doc/api/core/operators/doonerror.md)
- [`tapOnCompleted``](../../doc/api/core/operators/dooncompleted.md)
- [`throttle``](../../doc/api/core/operators/throttle.md)
- [`timeout``](../../doc/api/core/operators/timeout.md)
- [`timestamp``](../../doc/api/core/operators/timestamp.md)
- [`toArray``](../../doc/api/core/operators/toarray.md)
- [`transduce``](../../doc/api/core/operators/transduce.md)
- [`where``](../../doc/api/core/operators/where.md)
- [`withLatestFrom``](../../doc/api/core/operators/withlatestfrom.md)
- [`zip``](../../doc/api/core/operators/zipproto.md)



## ## Included Classes ##

### ### Core Objects

- [`Rx.Observer``](../../doc/api/core/observer.md)
- [`Rx.Notification``](../../doc/api/core/notification.md)

### ### Subjects

- [`Rx.AsyncSubject``](../../doc/api/subjects/asyncsubject.md)
- [`Rx.BehaviorSubject``](../../doc/api/subjects/behaviorsubject.md)
- [`Rx.ReplaySubject``](../../doc/api/subjects/replaysubject.md)
- [`Rx.Subject``](../../doc/api/subjects/subject.md)

### ### Schedulers

- [`Rx.Scheduler``](../../doc/api/schedulers/scheduler.md)

### ### Disposables

- [`Rx.CompositeDisposable``](../../doc/api/disposables/compositedisposable.md)
- [`Rx.Disposable``](../../doc/api/disposables/disposable.md)
- [`Rx.RefCountDisposable``](../../doc/api/disposables/refcountdisposable.md)
- [`Rx.SerialDisposable``](../../doc/api/disposables/serialdisposable.md)
- [`Rx.SingleAssignmentDisposable``](../../doc/api/disposables/singleassignmentdisposable.md)

## ## Contributing ##

There are lots of ways to contribute to the project, and we appreciate our [contributors](https://github.com/Reactive-Extensions/RxJS/wiki/Contributors). If you wish to contribute, check out our [style guide](https://github.com/Reactive-Extensions/RxJS/tree/master/doc/contributing)).

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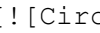
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[sane@4.1.0](#)

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sane  
----

I've been driven to insanity by node filesystem watcher wrappers.  
Sane aims to be fast, small, and reliable file system watcher. It does that by:

- \* By default stays away from fs polling because it's very slow and cpu intensive
- \* Uses `fs.watch` by default and sensibly works around the various issues
- \* Maintains a consistent API across different platforms
- \* Where `fs.watch` is not reliable you have the choice of using the following alternatives:
  - \* [the facebook watchman library] (<https://facebook.github.io/watchman/>)
  - \* [the watchexec library] (<https://github.com/watchexec/watchexec>)
  - \* polling

## Install

...

\$ npm install sane

...

## ## How to choose a mode

Don't worry too much about choosing the correct mode upfront because sane maintains the same API across all modes and will be easy to switch.

- \* If you're only supporting Linux and OS X, `watchman` would be the most reliable mode
- \* If you're using node > v0.10.0 use the default mode
- \* If you're running OS X and you're watching a lot of directories and you're running into <https://github.com/joyent/node/issues/5463>, use `watchman`
- \* If you're in an environment where native file system events aren't available (like Vagrant), you should use polling
- \* Otherwise, the default mode should work well for you

## ## API

### ### sane(dir, options)

Watches a directory and all its descendant directories for changes, deletions, and additions on files and directories.

```
```js
var watcher = sane('path/to/dir', {glob: ['**/*.js', '**/*.css']});
watcher.on('ready', function () { console.log('ready') });
watcher.on('change', function (filepath, root, stat) { console.log('file changed',
filepath); });
watcher.on('add', function (filepath, root, stat) { console.log('file added',
filepath); });
watcher.on('delete', function (filepath, root) { console.log('file deleted',
filepath); });
// close
watcher.close();
```
```

### options:

- \* `glob`: a single string glob pattern or an array of them.
- \* `poll`: puts the watcher in polling mode. Under the hood that means `fs.watchFile`.
- \* `watchman`: makes the watcher use [watchman](<https://facebook.github.io/watchman/>).
- \* `watchmanPath`: sets a custom path for `watchman` binary.
- \* `watchexec`: makes the watcher use [watchexec](<https://github.com/watchexec/watchexec>).
- \* `dot`: enables watching files/directories that start with a dot.
- \* `ignored`: a glob, regex, function, or array of any combination.

For the glob pattern documentation, see [micromatch](<https://github.com/micromatch/micromatch>).

If you choose to use `watchman` you'll have to [install watchman yourself](<https://facebook.github.io/watchman/docs/install.html>).

If you choose to use `watchexec` you'll have to [install watchexec yourself](<https://github.com/watchexec/watchexec>).

For the ignored options, see [anymatch](<https://github.com/es128/anymatch>).

### ### sane.NodeWatcher(dir, options)

The default watcher class. Uses `fs.watch` under the hood, and takes the same options as `sane(dir, options)`.

### ### sane.WatchmanWatcher(dir, options)

The watchman watcher class. Takes the same options as `sane(dir, options)`.

### ### sane.Watchexec(dir, options)

The watchexec watcher class. Takes the same options as `sane(dir, options)`.

```
### sane.PollWatcher(dir, options)
```

The polling watcher class. Takes the same options as `sane(dir, options)` with the addition of:

- \* `interval`: indicates how often the files should be polled. (passed to `fs.watchFile`)

```
### sane.{Node|Watchman|Watchexec|Poll}Watcher#close
```

Stops watching.

```
### sane.{Node|Watchman|Watchexec|Poll}Watcher events
```

Emits the following events:

All events are passed the file/dir path relative to the root directory

- \* ``ready`` when the program is ready to detect events in the directory

- \* ``change`` when a file changes

- \* ``add`` when a file or directory has been added

- \* ``delete`` when a file or directory has been deleted

```
## CLI
```

This module includes a simple command line interface, which you can install with `npm install sane -g`.

```
...
```

Usage: sane <command> [...directory] [--glob=<filePattern>] [--poll] [--watchman] [--watchman-path=<watchmanBinaryPath>] [--dot] [--wait=<seconds>]

OPTIONS:

- glob=<filePattern>

- A single string glob pattern or an array of them.

- ignored=<filePattern>

- A glob, regex, function, or array of any combination.

- poll, -p

- Use polling mode.

- watchman, -w

- Use watchman (if available).

- watchman-path=<watchmanBinaryPath>

- Sets a custom path for watchman binary (if using this mode).

- dot, -d

- Enables watching files/directories that start with a dot.

- wait=<seconds>

- Duration, in seconds, that watching will be disabled after running <command>. Setting this option will throttle calls to <command> for the specified duration.

- quiet, -q

- Disables sane's console output

- changes-only, -o

- Runs <command> only when a change occur. Skips running <command> at startup

```
...
```

It will watch the given `directory` and run the given <command> every time a file changes.

```
### CLI example usage
```

- `sane 'echo "A command ran"'`

- `sane 'echo "A command ran"' --glob='\*\*/\*.css'`

- `sane 'echo "A command ran"' site/assets/css --glob='\*\*/\*.css'`



```
- `sane 'echo "A command ran"' --glob='**/*.css' --ignored='**/ignore.css'`  
- `sane 'echo "A command ran"' --wait=3`  
- `sane 'echo "A command ran"' -p`
```

## License

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## Credits

The CLI was originally based on the [watch CLI](<https://github.com/mikeal/watch>). Watch is licensed under the Apache License Version 2.0.

[sax@1.2.4](#)

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`seek-bzip@1.0.5`

License type: MIT

# seek-bzip

[![Build Status][1]][2] [![dependency status][3]][4] [![dev dependency status][5]][6]

`seek-bzip` is a pure-javascript Node.JS module adapted from [node-bzip](https://github.com/skeggse/node-bzip) and before that [antimatter15's pure-javascript bzip2 decoder](https://github.com/antimatter15/bzip2.js). Like these projects, `seek-bzip` only does decompression (see [compressjs](https://github.com/cscott/compressjs) if you need compression code). Unlike those other projects, `seek-bzip` can seek to and decode single blocks from the bzip2 file.

`seek-bzip` primarily decodes buffers into other buffers, synchronously. With the help of the [fibers](https://github.com/laverdet/node-fibers) package, it can operate on node streams; see `test/stream.js` for an example.

## How to Install

```
```\n\nnpm install seek-bzip\n```\n
```

This package uses

[Typed Arrays](https://developer.mozilla.org/en-US/docs/JavaScript/Typed\_arrays), which are present in node.js >= 0.5.5.

## Usage

After compressing some example data into `example.bz2`, the following will recreate that original data and save it to `example`:

```
```\n\nvar Bunzip = require('seek-bzip');\nvar fs = require('fs');\n\nvar compressedData = fs.readFileSync('example.bz2');\nvar data = Bunzip.decode(compressedData);\n\nfs.writeFileSync('example', data);\n```\n
```

See the tests in the ``tests/`` directory for further usage examples.

For uncompressing single blocks of bzip2-compressed data, you will need an out-of-band index listing the start of each bzip2 block. (Presumably you generate this at the same time as you index the start of the information you wish to seek to inside the compressed file.) The ``seek-bzip`` module has been designed to be compatible with the C implementation ``seek-bzip2`` available from [https://bitbucket.org/james\\_taylor/seek-bzip2](https://bitbucket.org/james_taylor/seek-bzip2). That codebase contains a ``bzip-table`` tool which will generate bzip2 block start indices. There is also a pure-JavaScript ``seek-bzip-table`` tool in this package's ``bin`` directory.

## Documentation

``require('seek-bzip')`` returns a ``Bunzip`` object. It contains three static methods. The first is a function accepting one or two parameters:

```
`Bunzip.decode = function(input, [Number expectedSize] or [output], [boolean multistream])`
```

The ``input`` argument can be a "stream" object (which must implement the ``readByte`` method), or a ``Buffer``.

If ``expectedSize`` is not present, ``decodeBzip`` simply decodes ``input`` and returns the resulting ``Buffer``.

If ``expectedSize`` is present (and numeric), ``decodeBzip`` will store the results in a ``Buffer`` of length ``expectedSize``, and throw an error in the case that the size of the decoded data does not match ``expectedSize``.

If you pass a non-numeric second parameter, it can either be a ``Buffer`` object (which must be of the correct length; an error will be thrown if the size of the decoded data does not match the buffer length) or a "stream" object (which must implement a ``writeByte`` method).

The optional third ``multistream`` parameter, if true, attempts to continue reading past the end of the bzip2 file. This supports "multistream" bzip2 files, which are simply multiple bzip2 files concatenated together. If this argument is true, the input stream must have an ``eof`` method which returns true when the end of the input has been reached.

The second exported method is a function accepting two or three parameters:

```
`Bunzip.decodeBlock = function(input, Number blockStartBits, [Number expectedSize] or [output])`
```

The ``input`` and ``expectedSize`/`output`` parameters are as above.

The ``blockStartBits`` parameter gives the start of the desired block, in bits.

If passing a stream as the ``input`` parameter, it must implement the ``seek`` method.

The final exported method is a function accepting two or three parameters:

```
`Bunzip.table = function(input, Function callback, [boolean multistream])`
```

The ``input`` and ``multistream`` parameters are identical to those for the ``decode`` method.

This function will invoke ``callback(position, size)`` once per bzip2 block, where ``position`` gives the starting position of the block (in \*bits\*), and ``size`` gives the uncompressed size of the block (in bytes).

This can be used to construct an index allowing direct access to a particular block inside a bzip2 file, using the ``decodeBlock`` method.

## Command-line

There are binaries available in bin. The first generates an index of all the blocks in a bzip2-compressed file:

```

```
$ bin/seek-bzip-table test/sample4.bz2
```

```
32      99981
320555    99981
606348    99981
847568    99981
1089094   99981
1343625   99981
1596228   99981
1843336   99981
2090919   99981
2342106   39019
```

```
$
```
```

The first field is the starting position of the block, in bits, and the second field is the length of the block, in bytes.

The second binary decodes an arbitrary block of a bzip2 file:

```

```
$ bin/seek-bunzip -d -b 2342106 test/sample4.bz2 | tail
```

```
√@lan's
√@migr√@
√@migr√@'s
√@migr√@s
√@p√@e
√@p√@e's
√@p√@es
√@tude
√@tude's
√@tudes
```

```
$
```
```

Use `--help` to see other options.

## Help wanted

Improvements to this module would be generally useful.  
Feel free to fork on github and submit pull requests!

## Related projects

- \* <https://github.com/skeggse/node-bzip> node-bzip (original upstream source)
- \* <https://github.com/cscott/compressjs>  
Lots of compression/decompression algorithms from the same author as this module, including bzip2 compression code.
- \* <https://github.com/cscott/lzjb> fast LZJB compression/decompression

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[6]: <https://david-dm.org/cscott/seek-bzip#info=devDependencies>

[semver@5.7.1](#)

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[send@0.17.1](#)

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[serialize-error@2.1.0](#)

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[serve-static@1.14.1](#)

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### `set-blocking@2.0.0`

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## setimmediate@1.0.5

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[signal-exit@3.0.2](#)

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[slice-ansi@2.1.0](#)

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[snapdragon@0.8.2](#)

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[spdx-correct@3.1.0](#)

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## spdx-exceptions@2.2.0

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## spdx-expression-parse@3.0.0

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`spdx-license-ids@3.0.5`

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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```

`npm install spdx-license-ids`

```

## [Node.js](https://nodejs.org/) API

### `require('spdx-license-ids')`

Type: ``string[]``

All license IDs except for the currently deprecated ones.

```javascript

```
const ids = require('spdx-license-ids');  
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0',  
'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
```

```
ids.includes('CC-BY-1.0'); //=> true
```

```
ids.includes('GPL-3.0'); //=> false
```

```

### `require('spdx-license-ids/deprecated')`

Type: ``string[]``

Deprecated license IDs.

```javascript

```
const deprecatedIds = require('spdx-license-ids/deprecated');  
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0',  
'GPL-2.0', ...]
```

```
deprecatedIds.includes('BSD-3-Clause'); //=> false
```

```
deprecatedIds.includes('CC-BY-1.0'); //=> false
```

```
deprecatedIds.includes('GPL-3.0'); //=> true
```

```

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`split-on-first@1.1.0`

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`split-string@3.1.0`

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`sprintf-js@1.0.3`

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[sshp@1.16.1](#)

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[stack-utls@1.0.2](#)

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[stacktrace-parser@0.1.8](#)

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[static-extend@0.1.2](#)

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## statuses@1.5.0

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## stream-buffers@2.2.0

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# Node Stream Buffers

```
[![Build Status][badge-travis-img]][badge-travis-url]
[![Code Climate][badge-climate-img]][badge-climate-url]
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```

Simple Readable and Writable Streams that use a [Buffer][node-buffer-docs] to store received data, or for data to send out. Useful for test code, debugging, and a wide range of other utilities.

## Installation

```
[![NPM][badge-npm-img]][badge-npm-url]
```

## Usage

To use the stream buffers in your module, simply import it and away you go.

```
```js
var streamBuffers = require("stream-buffers");
```
```

### Writable StreamBuffer

Writable Stream Buffers implement the standardized writable stream interface. All write()'s to this object will accumulate in an internal Buffer. If the Buffer overflows it will be resized larger automatically. The initial size of the Buffer and the amount in which it grows can be configured in the constructor.

```
```js
var myWritableStreamBuffer = new streamBuffers.WritableStreamBuffer({
  initialSize: (100 * 1024),          // start as 100 kilobytes.
  incrementAmount: (10 * 1024) // grow by 10 kilobytes each time buffer overflows.
});
```

```
});  
```
```

The default initial size and increment amount are stored in the following constants:

```
```js  
streamBuffers.DEFAULT_INITIAL_SIZE           // (8 * 1024)  
streamBuffers.DEFAULT_INCREMENT_AMOUNT      // (8 * 1024)  
```
```

Writing is standard Stream stuff:

```
```js  
myWritableStreamBuffer.write(myBuffer);  
// - or -  
myWritableStreamBuffer.write("\u00bd + \u00bc = \u00be", "utf8");  
```
```

You can query the size of the data being held in the Buffer, and also how big the Buffer's max capacity currently is:

```
```js  
myWritableStreamBuffer.write("ASDF");  
streamBuffers.size();           // 4.  
streamBuffers.maxSize();        // Whatever was configured as initial size. In our  
example: (100 * 1024).  
```
```

Retrieving the contents of the Buffer is simple:

```
```js  
myWritableStreamBuffer.getContents();           // Gets all held data as  
a Buffer.  
myWritableStreamBuffer.getContentsAsString("utf8"); // Gets all held data as a utf8  
string.  
myWritableStreamBuffer.getContents(5);          // Gets first 5 bytes as  
a Buffer.  
myWritableStreamBuffer.getContentsAsString("utf8", 5); // Gets first 5 bytes as a utf8  
string.  
```
```

Care should be taken when getting encoded strings from WritableStream, as it doesn't really care about the contents (multi-byte characters will not be respected).

Destroying or ending the WritableStream will not delete the contents of Buffer, but will disallow any further writes:

```
```js  
myWritableStreamBuffer.write("ASDF");  
myWritableStreamBuffer.destroy();  
  
myWritableStreamBuffer.getContents(); // Returns ASDF in Buffer.  
myWritableStreamBuffer.write("Yeah?"); // No effect.  
```
```

### ### Readable StreamBuffer

Readable Stream Buffers can have data inserted in them, which will then be pumped out via standard readable stream data events. The data to be sent out is held in a Buffer, which can grow in much the same way as a WritableStream Buffer does, if data is being put in Buffer faster than it's being pumped out.

The frequency in which chunks are pumped out, and the size of the chunks themselves can be configured in the constructor. The initial size and increment amount of internal Buffer can be configured too.

```
```js
```

```
var myReadableStreamBuffer = new streamBuffers.ReadableStreamBuffer({
  frequency: 10,          // in milliseconds.
  chunkSize: 2048         // in bytes.
});
```

```

Default frequency and chunk size:

```
```js
streamBuffers.DEFAULT_CHUNK_SIZE      // (1024)
streamBuffers.DEFAULT_FREQUENCY      // (1)
```

```

Putting data in Buffer to be pumped out is easy:

```
```js
myReadableStreamBuffer.put(aBuffer);
myReadableStreamBuffer.put("A String", "utf8");
```

```

Chunks are pumped out via standard readable stream spec:

```
```js
myReadableStreamBuffer.on("data", function(data) {
  // Yup.
  assert.isTrue(data instanceof Buffer);
});
```

```

Chunks are pumped out by the interval that you specified in frequency. Setting the frequency to 0 will immediately stream the data (also in chunks), even if the stream has not been piped to a destination. This is useful for unit testing.

setEncoding() for streams is respected too:

```
```js
myReadableStreamBuffer.setEncoding("utf8");
myReadableStreamBuffer.on("data", function(data) {
  assert.isTrue(data instanceof String);
});
```

```

Pause and resume are also implemented. pause()'ing stream will allow buffer to continue accumulating, but will not pump any of that data out until it is resume()'d again.

Destroying the stream will immediately purge the buffer, unless destroySoon() is called, in which case the rest of the buffer will be written out. Either way, any further attempts to put data in the Buffer will be silently ignored.

```
```js
myReadableStreamBuffer.destroySoon();
myReadableStreamBuffer.put("A String!");
myReadableStreamBuffer.size();           // will be 0.
```

```

## Disclaimer

Not supposed to be a speed demon, it's more for tests/debugging or weird edge cases. It works with an internal buffer that it copies contents to/from/around.

## Contributors

Thanks to the following people for taking some time to contribute to this project.

- \* Igor Dralyuk <idralyuk@ebay.com>
- \* Simon Koudijs <simon.koudijs@intellifi.nl>

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### [ts-object-utils@0.0.5](#)

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# ts-object-utils

Best way to check for null or undefined in typescript using a type guard. Other types also supported.

Can strip out null or undefine or complex types like T | null etc.

```
`npm install --save ts-object-utils`
```

To use:

```
```js
```

```
import ObjectUtil from "ts-object-utils";
```

```
let a: number | null = 0;
```

```
console.log(a*4); //Error: a might be null
```

```
if(!ObjectUtil.isNullOrUndefined(a)){  
    console.log(a*4); //Works  
}  
```
```

tunnel-agent@0.6.0

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Version 2.0, January 2004

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`typedarray@0.0.6`

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*/
```

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//   https://github.com/inexorabletash/polyfill  
  
// ES3/ES5 implementation of the Khronos Typed Array Specification  
//   Ref: http://www.khronos.org/registry/arraybuffer/specs/latest/  
//   Date: 2011-02-01  
//  
// Variations:  
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
```

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based on bzip2.js - a small bzip2 decompression implementation  
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`uri-js@4.2.2`

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# URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc).

It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It

weighs in at 6.2kb (gzipped, 16kb deflated).

## API

### Parsing

```
URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
//  scheme : "uri",
//  userinfo : "user:pass",
//  host : "example.com",
//  port : 123,
//  path : "/one/two.three",
//  query : "q1=a1&q2=a2",
//  fragment : "body"
//}
```

### Serializing

```
URI.serialize({scheme : "http", host : "example.com", fragment : "footer"}) ===
"http://example.com/#footer"
```

### Resolving

```
URI.resolve("uri://a/b/c/d?q", "../../../g") === "uri://a/g"
```

### Normalizing

```
URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/
home.html"
```

### Comparison

```
URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a/./b/../../b/%63/%7bfoo%7d") ===
true
```

### IP Support

```
//IPv4 normalization
URI.normalize("//192.068.001.000") === "//192.68.1.0"

//IPv6 normalization
URI.normalize("//[2001:0:0DB8::0:0001]") === "//[2001:0:db8::1]"

//IPv6 zone identifier support
URI.parse("//[2001:db8::7%25en1]");
//returns:
//{
//  host : "2001:db8::7%en1"
//}
```

### IRI Support

```
//convert IRI to URI
URI.serialize(URI.parse("http://exampl√©.org/ros√©")) === "http://xn--exampl-
gva.org/ros%C3%A9"
//convert URI to IRI
URI.serialize(URI.parse("http://xn--exampl-gva.org/ros%C3%A9"), {iri:true}) ===
"http://exampl√©.org/ros√©"
```

### Options

All of the above functions can accept an additional options argument that is an object that can contain one or more of the following properties:

\* `scheme` (string)



Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.

\* ``reference` (string)`

If set to ``"suffix"``, it indicates that the URI is in the suffix format, and the validator will use the option's ``scheme`` property to determine the URI's scheme.

\* ``tolerant` (boolean, false)`

If set to ``true``, the parser will relax URI resolving rules.

\* ``absolutePath` (boolean, false)`

If set to ``true``, the serializer will not resolve a relative ``path`` component.

\* ``iri` (boolean, false)`

If set to ``true``, the serializer will unescape non-ASCII characters as per [RFC 3987] (<http://www.ietf.org/rfc/rfc3987.txt>).

\* ``unicodeSupport` (boolean, false)`

If set to ``true``, the parser will unescape non-ASCII characters in the parsed output as per [RFC 3987] (<http://www.ietf.org/rfc/rfc3987.txt>).

\* ``domainHost` (boolean, false)`

If set to ``true``, the library will treat the ``host`` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891] (<http://www.ietf.org/rfc/rfc5891.txt>).

## ## Scheme Extendable

URI.js supports inserting custom [scheme] ([http://en.wikipedia.org/wiki/URI\\_scheme](http://en.wikipedia.org/wiki/URI_scheme)) dependent processing rules. Currently, URI.js has built in support for the following schemes:

```
* http \[[RFC 2616] (http://www.ietf.org/rfc/rfc2616.txt)\]
* https \[[RFC 2818] (http://www.ietf.org/rfc/rfc2818.txt)\]
* mailto \[[RFC 6068] (http://www.ietf.org/rfc/rfc6068.txt)\]
* urn \[[RFC 2141] (http://www.ietf.org/rfc/rfc2141.txt)\]
* urn:uuid \[[RFC 4122] (http://www.ietf.org/rfc/rfc4122.txt)\]
```

## ### HTTP Support

```
URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true
```

## ### Mailto Support

```
URI.parse("mailto:alpha@example.com,bravo@example.com?
subject=SUBSCRIBE&body=Sign%20me%20up!");
```

```
//returns:
```

```
//{
```

```
//  scheme : "mailto",
```

```
//  to : ["alpha@example.com", "bravo@example.com"],
```

```
//  subject : "SUBSCRIBE",
```

```
//  body : "Sign me up!"
```

```
//}
```

```
URI.serialize({
  scheme : "mailto",
  to : ["alpha@example.com"],
  subject : "REMOVE",
  body : "Please remove me",
  headers : {
```

```
        cc : "charlie@example.com"
    })
    }) === "mailto:alpha@example.com?
cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
```

### ### URN Support

```
URI.parse("urn:example:foo");
//returns:
//{
//  scheme : "urn",
//  nid : "example",
//  nss : "foo",
//}
```

### #### URN UUID Support

```
URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
//returns:
//{
//  scheme : "urn",
//  nid : "example",
//  uuid : "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}
```

## ## Usage

To load in a browser, use the following tag:

```
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
```

To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

```
npm install uri-js
```

Then, in your code, load it using:

```
const URI = require("uri-js");
```

If you are writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:

```
import * as URI from "uri-js";
```

Or you can load just what you need using named exports:

```
import { parse, serialize, resolve, resolveComponents, normalize, equal,
removeDotSegments, pctEncChar, pctDecChars, escapeComponent, unescapeComponent } from
"uri-js";
```

## ## Breaking changes

### ### Breaking changes from 3.x

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namespace Identifier, and `nss` which contains the Namespace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

The UUID of a URN can now be found in the `uuid` property.

### ### Breaking changes from 2.x

URI validation has been removed as it was slow, exposed a vulnerability, and was generally not useful.

### ### Breaking changes from 1.x

The `errors` array on parsed components is now an `error` string.

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`urix@0.1.0`

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[use-debounce@3.3.0](#)

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#### uuid@3.4.0

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[vlq@1.0.1](#)

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[wcwidth@1.0.1](#)

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation  
=====

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This package is a JavaScript porting of `wcwidth()` implementation  
[by Markus Kuhn] (<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

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[websocket-driver@0.7.3](#)

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[write-file-atomic@1.3.4](#)

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[ws@1.1.5](#)

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# ws: a node.js websocket library

[![Build Status](https://travis-ci.org/websockets/ws.svg?branch=master)](https://travis-ci.org/websockets/ws)

`ws` is a simple to use WebSocket implementation, up-to-date against RFC-6455, and [probably the fastest WebSocket library for node.js][archive].

Passes the quite extensive Autobahn test suite. See <http://websockets.github.com/ws> for the full reports.

## Protocol support

- \* **Hixie draft 76** (Old and deprecated, but still in use by Safari and Opera. Added to ws version 0.4.2, but server only. Can be disabled by setting the `disableHixie` option to true.)
- \* **HyBi drafts 07-12** (Use the option `protocolVersion: 8`)
- \* **HyBi drafts 13-17** (Current default, alternatively option `protocolVersion: 13`)

### Installing

```
```\n\nnpm install --save ws\n```\n
```

### Opt-in for performance

There are 2 optional modules that can be installed along side with the `ws` module. These modules are binary addons which improve certain operations, but as they are binary addons they require compilation which can fail if no c++ compiler is installed on the host system.

- `npm install --save bufferutil`: Improves internal buffer operations which allows for faster processing of masked WebSocket frames and general buffer operations.
- `npm install --save utf-8-validate`: The specification requires validation of invalid UTF-8 chars, some of these validations could not be done in JavaScript hence the need for a binary addon. In most cases you will already be validating the input that you receive for security purposes leading to double validation. But if you want to be 100% spec-conforming and have fast validation of UTF-8 then this module is a must.

### Sending and receiving text data

```
```\njs\nvar WebSocket = require('ws');\nvar ws = new WebSocket('ws://www.host.com/path');\n\nws.on('open', function open() {\n  ws.send('something');\n});\n
```



```
ws.on('message', function(data, flags) {
    // flags.binary will be set if a binary data is received.
    // flags.masked will be set if the data was masked.
});
```

```

### Sending binary data

```
```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');

ws.on('open', function open() {
    var array = new Float32Array(5);

    for (var i = 0; i < array.length; ++i) {
        array[i] = i / 2;
    }

    ws.send(array, { binary: true, mask: true });
});
```

```

Setting `mask`, as done for the send options above, will cause the data to be masked according to the WebSocket protocol. The same option applies for text data.

### Server example

```
```js
var WebSocketServer = require('ws').Server
    , wss = new WebSocketServer({ port: 8080 });

wss.on('connection', function connection(ws) {
    ws.on('message', function incoming(message) {
        console.log('received: %s', message);
    });

    ws.send('something');
});
```

```

### ExpressJS example

```
```js
var server = require('http').createServer()
    , url = require('url')
    , WebSocketServer = require('ws').Server
    , wss = new WebSocketServer({ server: server })
    , express = require('express')
    , app = express()
    , port = 4080;

app.use(function (req, res) {
    res.send({ msg: "hello" });
});

wss.on('connection', function connection(ws) {
    var location = url.parse(ws.upgradeReq.url, true);
    // you might use location.query.access_token to authenticate or share sessions
    // or ws.upgradeReq.headers.cookie (see http://stackoverflow.com/a/16395220/151312)

    ws.on('message', function incoming(message) {
        console.log('received: %s', message);
    });

    ws.send('something');
});
```

```

```

});

server.on('request', app);
server.listen(port, function () { console.log('Listening on ' +
server.address().port) });
```

### Server sending broadcast data

```js
var WebSocketServer = require('ws').Server
  , wss = new WebSocketServer({ port: 8080 });

wss.broadcast = function broadcast(data) {
  wss.clients.forEach(function each(client) {
    client.send(data);
  });
};
```

### Error handling best practices

```js
// If the WebSocket is closed before the following send is attempted
ws.send('something');

// Errors (both immediate and async write errors) can be detected in an optional
// callback. The callback is also the only way of being notified that data has
// actually been sent.
ws.send('something', function ack(error) {
  // if error is not defined, the send has been completed,
  // otherwise the error object will indicate what failed.
});

// Immediate errors can also be handled with try/catch-blocks, but **note** that
// since sends are inherently asynchronous, socket write failures will *not* be
// captured when this technique is used.
try { ws.send('something'); }
catch (e) { /* handle error */ }
```

### echo.websocket.org demo

```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://echo.websocket.org/', {
  protocolVersion: 8,
  origin: 'http://websocket.org'
});

ws.on('open', function open() {
  console.log('connected');
  ws.send(Date.now().toString(), {mask: true});
});

ws.on('close', function close() {
  console.log('disconnected');
});

ws.on('message', function message(data, flags) {
  console.log('Roundtrip time: ' + (Date.now() - parseInt(data)) + 'ms', flags);

  setTimeout(function timeout() {
    ws.send(Date.now().toString(), {mask: true});
  }, 500);
});
```

```

### ### Other examples

For a full example with a browser client communicating with a ws server, see the examples folder.

Note that the usage together with Express 3.0 is quite different from Express 2.x. The difference is expressed in the two different serverstats-examples.

Otherwise, see the test cases.

### ### Running the tests

```
```\nmake test\n```
```

### ## API Docs

See [`/doc/ws.md`] (<https://github.com/websockets/ws/blob/master/doc/ws.md>) for Node.js-like docs for the ws classes.

### ## Changelog

We're using the GitHub [`releases`] (<https://github.com/websockets/ws/releases>) for changelog entries.

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[archive]: <http://web.archive.org/web/20130314230536/http://hobbycoding.posterous.com/the-fastest-websocket-module-for-nodejs>

### ws@3.3.3

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Node XMLHttpRequest-Cookie

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Abstract

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This is a [Node.js](<http://nodejs.org/>) extension module for wrapping the [Node-XMLHttpRequest](<https://github.com/driverdan/node-XMLHttpRequest>) module to allow it to handle HTTP Cookies, similar to what a browser automatically does.

Installation

-----

Use the Node Package Manager (NPM) to install this module locally (default) or globally (with option `-g`):

```
$ npm install [-g] xmlhttprequest-cookie
```

API

---

The API is fully compatible to the API provided by the underlying [Node-XMLHttpRequest Extension Module](<https://github.com/driverdan/node-XMLHttpRequest>),



module (which in turn is compatible to the API defined by the [W3C XMLHttpRequest API Specification](<http://www.w3.org/TR/XMLHttpRequest/>)). In addition, the exposed `XMLHttpRequest` object also has a `debug` flag for controlling debug messages and there is a `CookieJar` object exposed by the module which grants access to the cookie jar:

```
var fs = require("fs");
var xhrc = require("./xmlhttprequest-cookie");
var XMLHttpRequest = xhrc.XMLHttpRequest;
var CookieJar = xhrc.CookieJar;

if (fs.existsSync("./sample.db"))
    CookieJar.load(fs.readFileSync("./sample.db", { encoding: "utf8" }));

var get = function (url, complete) {
    var xhr = new XMLHttpRequest();
    xhr.debug = true;
    xhr.onreadystatechange = function() {
        if (xhr.readyState === 4) {
            console.log("body length: " + this.responseText.length);
            complete(xhr);
        }
    };
    xhr.open("GET", "https://github.com/rse/");
    xhr.send();
};

get("https://github.com/rse/", function (xhr) {
    console.log("body: " + xhr.responseText.substr(0, 100));
    get("https://github.com/rse/", function (xhr) {
        console.log("body: " + xhr.responseText.substr(0, 100));
        fs.writeFileSync("./sample.db", CookieJar.save(), { encoding: "utf8" });
    });
});
```

See Also

-----

- [Node-XMLHttpRequest Extension Module](<https://github.com/driverdan/node-XMLHttpRequest>)
- [XMLHttpRequest Wikipedia Information](<http://en.wikipedia.org/wiki/XMLHttpRequest>)
- [XMLHttpRequest API Specification](<http://www.w3.org/TR/XMLHttpRequest/>)

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