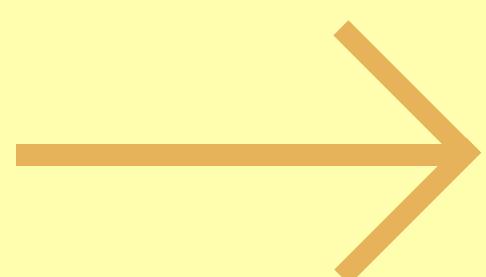


Browserify lets you require('modules') in the browser by bundling up all of your dependencies.

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# About Browserify

## Topics

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# Browserify Intro

Browsers don't have the `require` method defined, but Node.js does. With Browserify you can write code that uses `require` in the same way that you would use it in Node.

With browserify, we can use the thousands of modules on `npm` in our browser-side code.

Use a node-style `require()` to organize your browser code and load modules installed by `npm`.

Browserify will recursively analyze all the `require()` calls in your app in order to build a bundle you can serve up to the browser in a single `<script>` tag.



# Install

USE BROWSERIFY FROM THE COMMAND LINE

First install node, which ships with npm. Then do:

```
npm install -g browserify
```

## Hello World With Browserify

# Bundle Up Your First Module

### Step 1

Here is a tutorial on how to use Browserify on the command line to bundle up a simple file called `main.js` along with all of its dependencies:

```
var unique = require('uniq');

var data = [1, 2, 2, 3, 4, 5, 5, 5, 6];

console.log(unique(data));
```

### Step 2

Install the `uniq` module with `npm`:

```
npm install uniq
```

## Hello World With Browserify

# Bundle Up Your First Module

### Step 3

Now recursively bundle up all the required modules starting at `main.js` into a single file called `bundle.js` with the `browserify` command:

```
browserify main.js -o bundle.js
```

### Step 4

Browserify parses the `AST` for `require()` calls to traverse the entire dependency graph of your project.

Drop a single `<script>` tag into your html and you're done!

```
<script src="bundle.js"></script>
```

# Live Reload Development Environment

If you're in the middle of writing code, you'll find running `browserify` in the terminal to regenerate `bundle.js`, then refreshing the browser to be time-consuming and annoying.

Enter `budo`!

`budo` is a command-line tool for automatically generating and serving your `browserify` bundles as you develop. It's designed to be useful for quick prototyping. Each time you save your JavaScript file `budo` will regenerate the `bundle.js` file and refresh the browser automatically.

Live Reload

# Live Reload Development Environment

Install budo:

```
npm install -g budo
```

Run this:

```
budo index.js:bundle.js --live
```

The `--live` option enables the live reload functionality of beefy.

The `index.js:bundle.js` is telling budo to read the contents of index.js, bundle the code, and serve that bundle to the browser as bundle.js.

This will by default serve your index.html file at <http://localhost:9966>.

# Browserify Transforms

WHEN BROWSERIFY BUNDLES OUR CODE, WE HAVE THE OPTION TO TRANSFORM THE CODE AS WELL.

This is useful for a lot of purposes:  
using babel, reading files on the filesystem, bundling css, and more.

# Browserify Transforms

## SOME TRANSFORMATIONS



- ➊ **babelify** - turn ES6+ code into readable vanilla ES5 with source maps
- ➋ **cssify** - require .css files to add styles to the page
- ➌ **installify** - automatically installs your missing dependencies for you.

```
browserify yoursrjs.js -o bundle.js -t babelify
```

## Pros and Cons

# Browserify

## Pros and Cons

### Pros

- Simple to `set up` and `lightweight`
- Use `npm modules` in both `server` and `client`

### Cons

- No `asynchronous require`
- Relies on `CommonJS packages`
- Giant JS file / `bundles` with repeated code



browserify // thanks for watching