Creating a Web App

with

Node   Weback   React

What you will need

Google Chrome

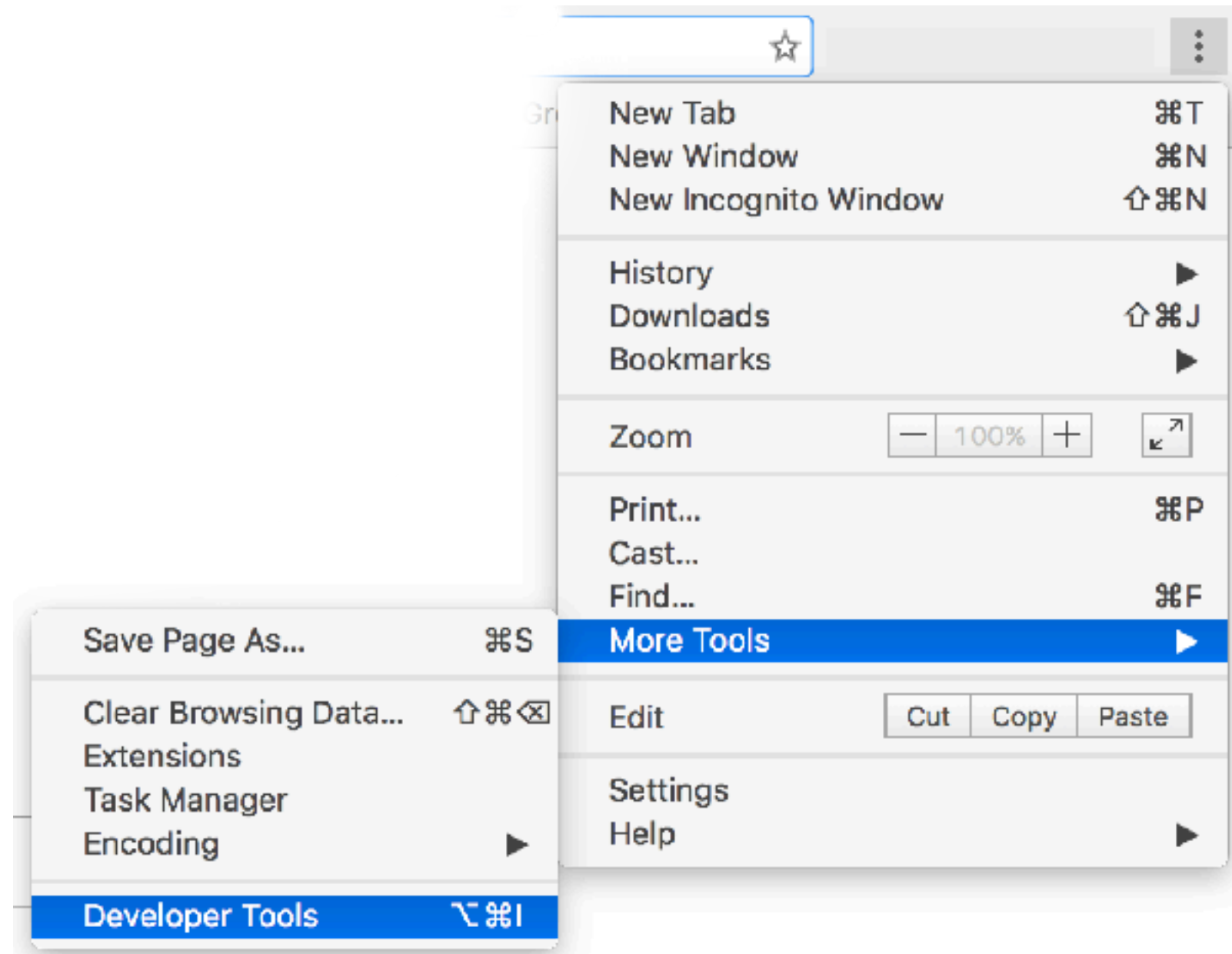google.com/chrome/

Chrome Dev Tools

Top right

Ctrl+Shift+I

or

Cmd+Opt+I

New Tab	⌘T
New Window	⌘N
New Incognito Window	⇧⌘N
History	▶
Downloads	⇧⌘J
Bookmarks	▶
Zoom	− 100% + ⤢
Print...	⌘P
Cast...	
Find...	⌘F
More Tools	▶
Edit	Cut Copy Paste
Settings	
Help	▶

Save Page As...	⌘S
Clear Browsing Data...	⇧⌘⌫
Extensions	
Task Manager	
Encoding	▶
Developer Tools	⌥⌘I

Node and NPM

Node and NPM

```
node -v
```
~6

```
npm -v
```
~3

nodejs.org/en/download/

Git

```
git --version
```

git-scm.com/book/en/v2/Getting-Started-Installing-Git

Who has used

git

node

node package manager (npm)

chrome developer tools

es6 / es2015

babel

webpack

react

Checking out repo
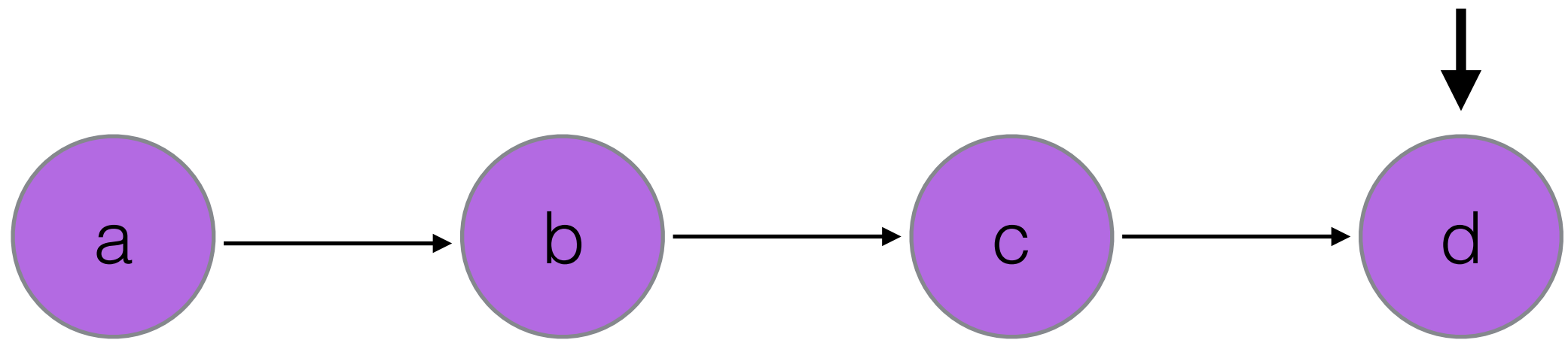
`git clone`

`http://github.com/danield9tqh/node-demo.git`
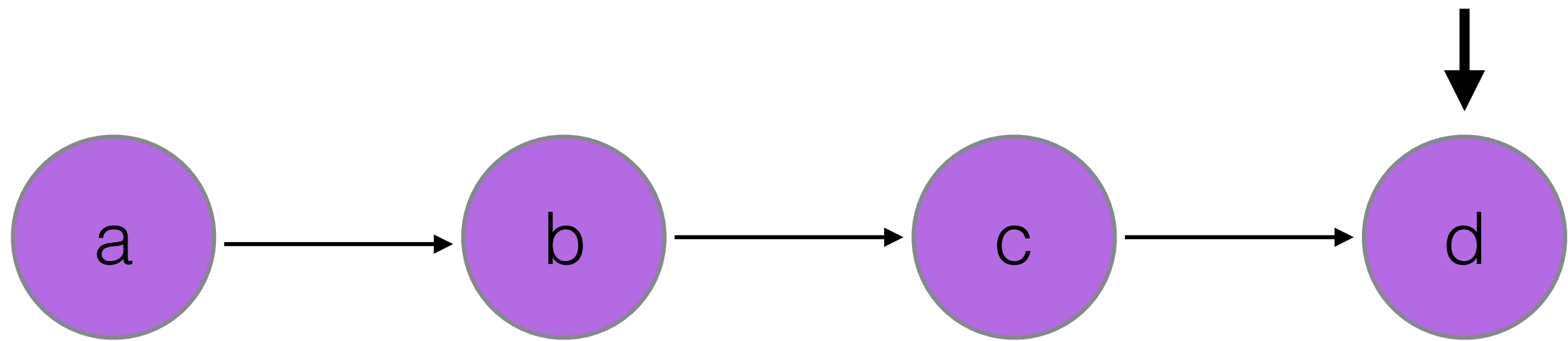
Running App

```
cd node-demo
```
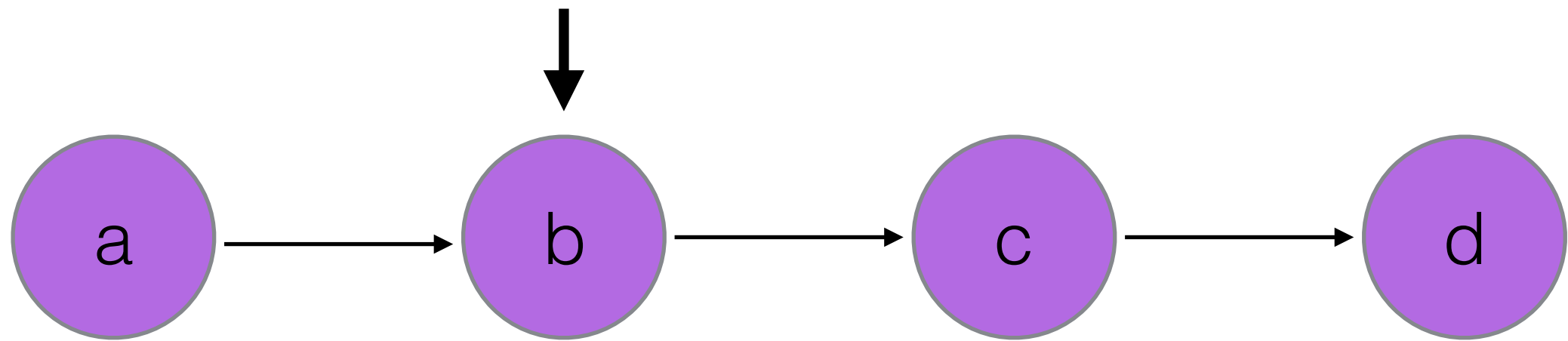
```
npm start
```

localhost:8080

Git commits

Git commits


```
git reset --hard <commit_id>
```

Git commits

a → b → c → d

`git reset --hard b`

```
git reset --hard 95b0a414
```

Creating node project

```
cd node-demo
```

```
npm init
```

Go through the setup

Directory Structure

/node-demo
package.json

Directory Structure

/node-demo
    package.json
    /src
        /static
            index.html
            /js
                bundle.js

`git reset --hard 79a11bd6`

node-demo/src/static/index.html

```html
<html>
  <head></head>
    <body>
      <div id="root"></div>

      <script type="text/javascript"
              src="js/bundle.js">
      </script>

    </body>
</html>
```

node-demo/src/static/js/bundle.js

```javascript
console.log("Hello, World!");
```

Installing Dependencies

```
npm install http-server
            --save
```

```
npm install http-server --save
```

Directory Structure

/node-demo

package.json

/node_modules
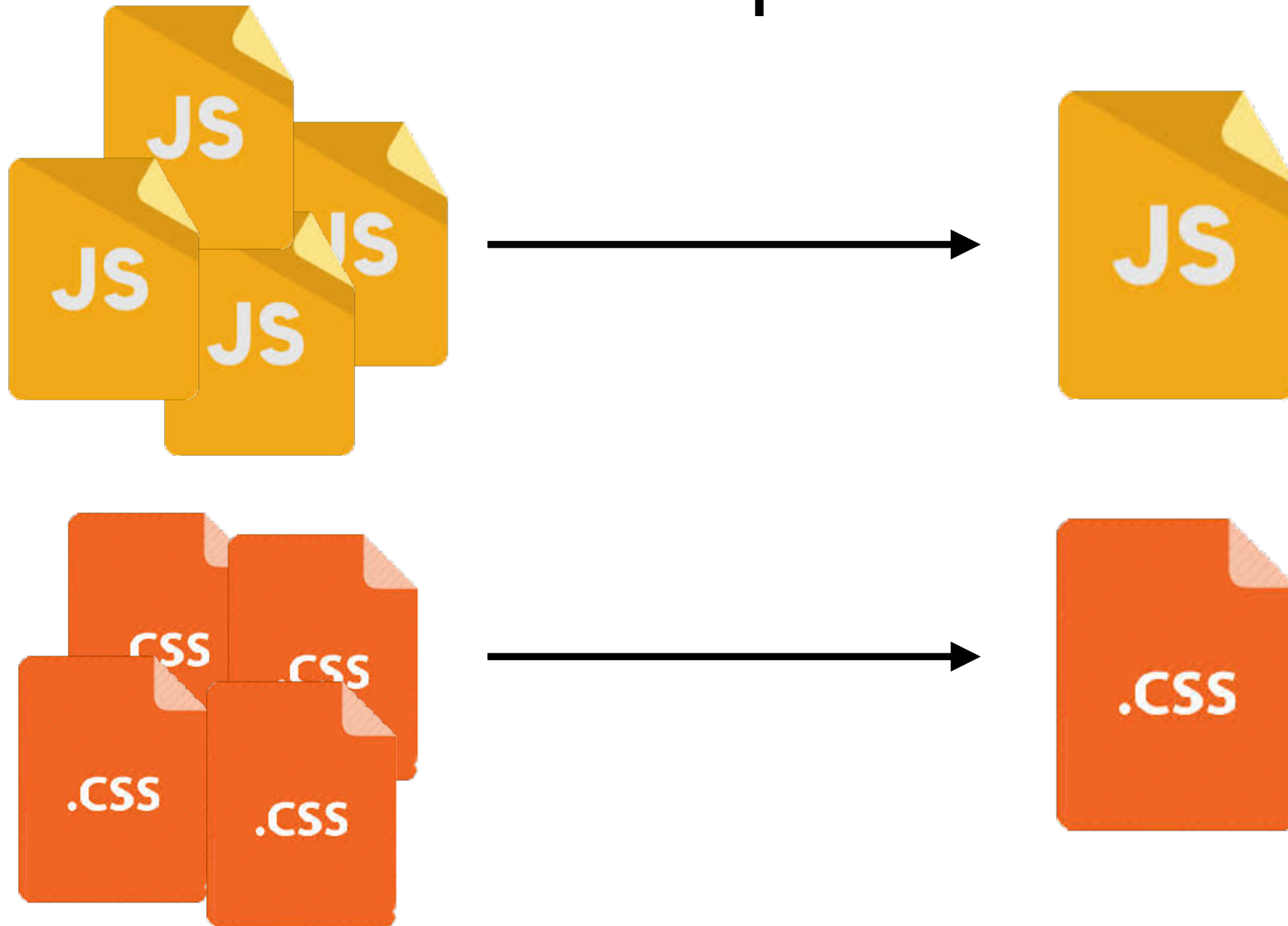
/src

/static

index.html

/js

bundle.js

Running Server

node_modules/.bin/http-server

src/static/

localhost:8080

Webpack

Webpack

```
<script type="text/javascript" src="js/bundle.js">

<link rel="stylesheet" href="style.css">
```

Installing Dev Dependencies

`npm install` `webpack`

`--save-dev`

Directory Structure

/node-demo
    package.json
    /node_modules
    /src
       /static …

Directory Structure

/node-demo

    webpack.config.js

    package.json

    /node_modules

    /src

        app.js

        /static …

```
git reset --hard bc1467f9
```

node-demo/src/app.js

```js
console.log("Hello, World!");
```

node-demo/webpack.config.js

```javascript
const path = require('path');

module.exports = {
    entry: "./src/app.js",
    output: {
        path: path.join(__dirname,
         "src", "static", "js"),
        publicPath: "js",
        filename: "bundle.js"
    }
};
```

Running Webpack

`node_modules/.bin/webpack`

Directory Structure

/src

/static

index.html

/js

bundle.js

Run the Server

`node_modules/.bin/http-server`

`src/static/`

localhost:8080

Webpack Dev Server

`npm install` `webpack-dev-server`

`--save-dev`

Running Dev Server

`node_modules/.bin/webpack-dev-server`

`--content-base` `src/static`

`--inline`

`--hot`

`localhost:8080`

node-demo/package.json

```
...

"scripts": {
  "start": "node_modules/.bin/webpack-dev-server
      --content-base src/static
      --inline --hot"
}

...
```

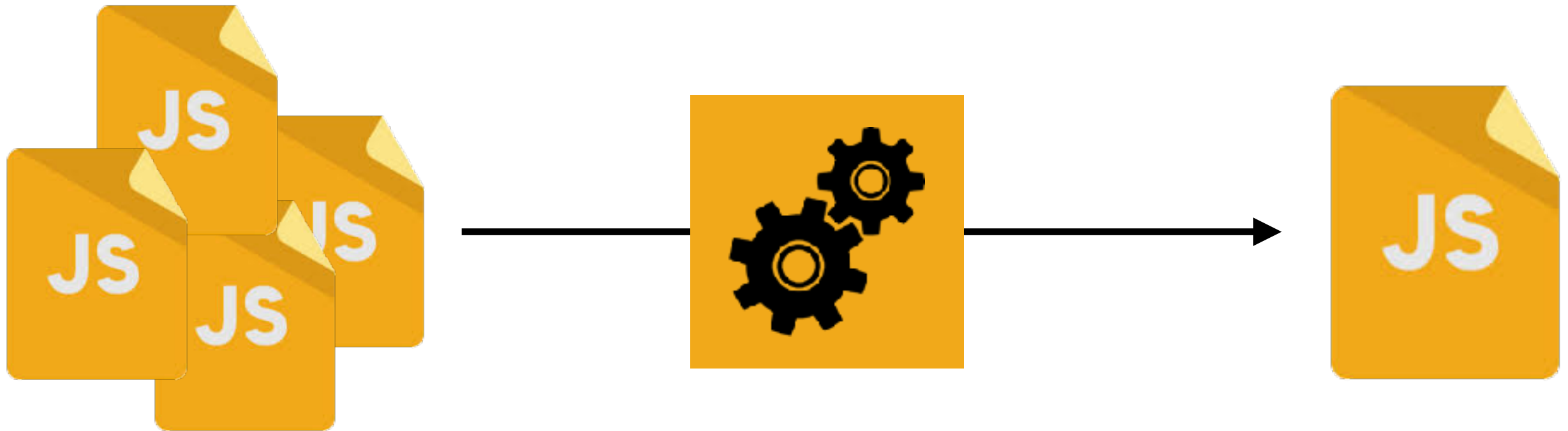# Running Dev Server

npm run start

npm start

localhost:8080

Babel

Installing Babel

`npm install` `babel-core`

`babel-loader`

`babel-preset-es2015`

`babel-preset-react`

`--save-dev`

node-demo/webpack.config.js

```
...
        filename: "bundle.js"
    },
    module: {
        loaders: [
            {
                test: /\.js$/,
                exclude: /(node_modules)/,
                loader: 'babel-loader',
                query: {
                    presets: ['es2015', 'react']
                }
            }
        ]
    }
};
```

```
git reset --hard 603067da
```

node-demo/webpack.config.js

```
...
        filename: "bundle.js"
    },
    module: {
        loaders: [
            {
                test: /\.js$/,
                exclude: /(node_modules)/,
                loader: 'babel-loader',
                query: {
                    presets: ['es2015', 'react']
                }
            }
        ]
    }
};
```

Installing React

`npm install` `react`

`react-dom`

`--save`

React

<UserProfile />

image   name   age   gender

Name:

Age:
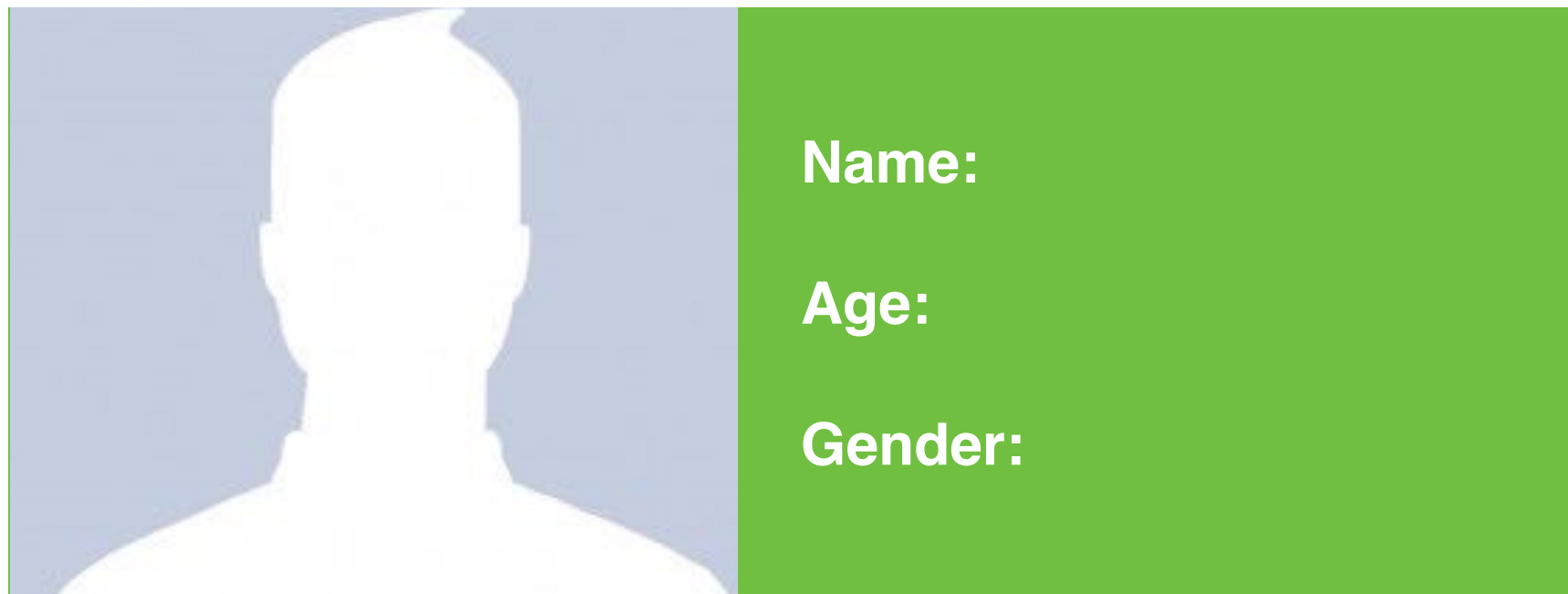
Gender:

```
<UserProfile

    image="www.got.com/arya.jpg"

    name="Arya Stark"

    age=15

    gender="Female"

/>
```

Name: Arya Stark

Age: 15

Gender: Female

```
<UserProfile

    image="www.got.com/john.jpg"

    name="John Snow"

    age=25

    gender="Male"

/>
```

Name: John Snow

Age: 25

Gender: Male

Spotify Web API

https://developer.spotify.com/web-api/

<UserProfile />

CSS Stylesheets

Installing CSS Loader

`npm install` `css-loader`

`style-loader`

`--save-dev`

node-demo/webpack.config.js

```
...
        filename: "bundle.js"
    },
    module: {
        loaders: [
            {
                test: /\.js$/,
                exclude: /(node_modules)/,
                loader: 'babel-loader',
                query: {
                    presets: ['es2015', 'react']
                }
            }
        ]
    }
};
```

Coding

Thank You