Webpack Fundamentals

Introduction

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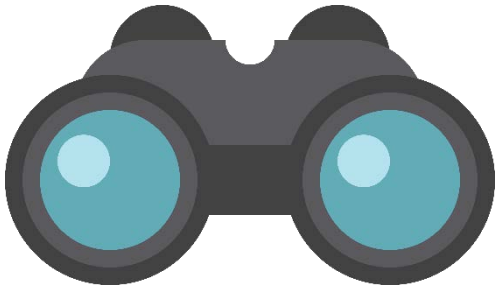
Course Overview



- Introduction
- Basic Builds
- Advanced Builds
- Tools
- Specific Builds

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Who Should Watch This Course?

Front End Web Developers

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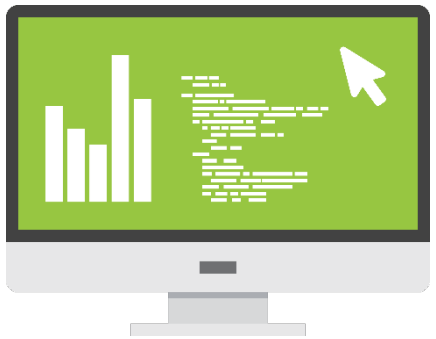
Course Repo

https://github.com/joeeames/WebpackFundamentalsCourse



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Why Do We Need a Build?

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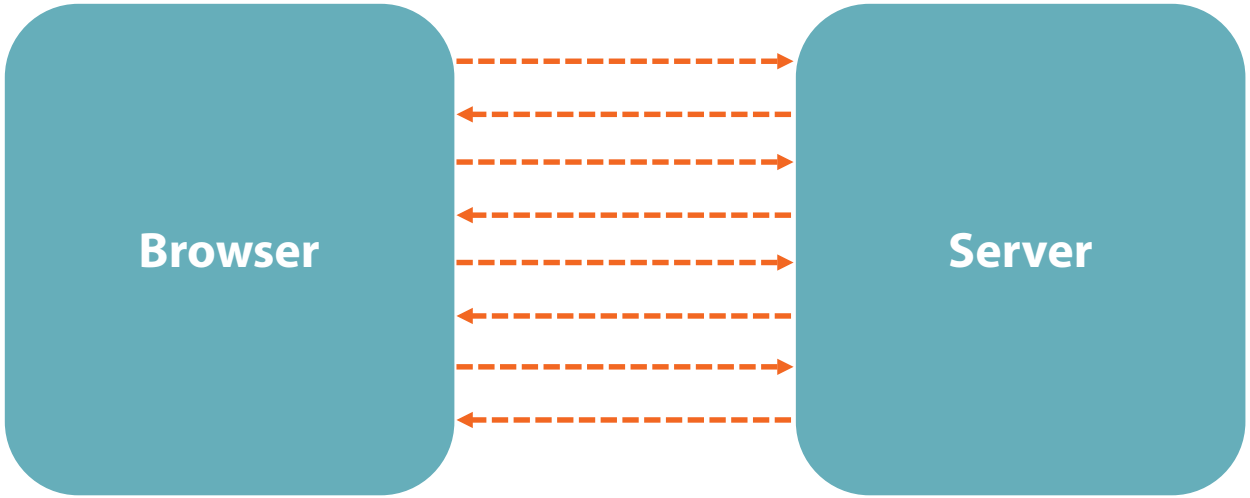
Multiple Web Requests



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Code Size

```
function rockOut(guitar) {
    if(guitar.canShred) {
        guitar.shred();
    } else {
        guitar.play();
    }
}
```

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Minified

```
function
rockOut(guitar){if(guitar.canShred){guitar.shred();}else{g
uitar.play();}}
```

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Really Minified

```
function rockOut(c){c.canShred?c.shred():c.play()}
```

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File Order Dependencies

```
<head>
    <script src="members.js"></script>
    <script src="bands.js"></script>
</head>
```

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Transpilation

```
function playSolo(drums, duration = 5) {
    drums.startSolo();
    setTimeout(function() {
        drums.endSolo();
    }, duration * 60000);
}
```

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Linting

```
function tune(lead, bass, keyboard) {
  lead.tune()
  bass.tune()
}
```

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Why Do We Need a Build?

?

- Combining Files
- Minifying Files
- Maintaining File Order
- Transpilation
- Linting

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Other Solutions

Server-Side Tools

ASP.NET, Rails, etc.

Task Runners

Grunt, Gulp, etc.

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Server-Side Build Tools

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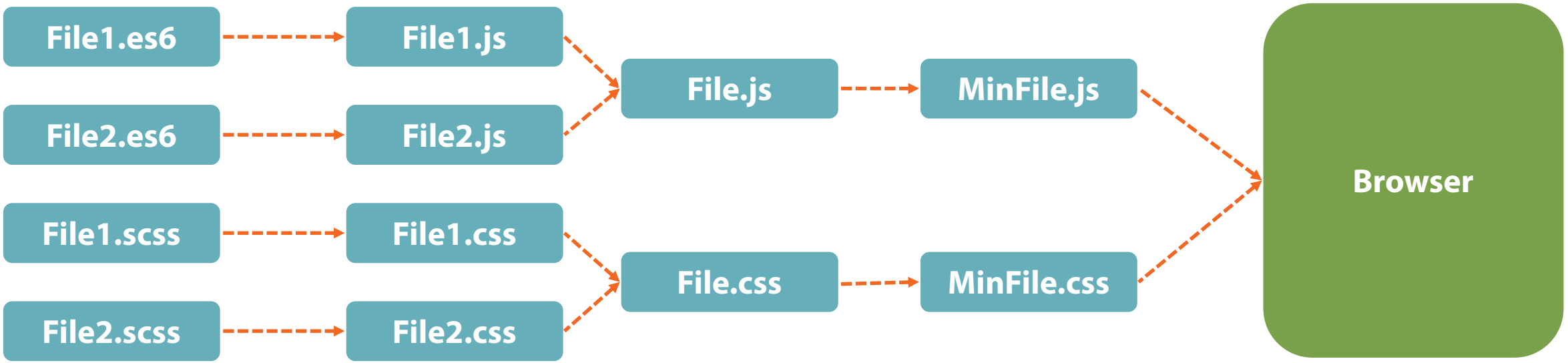
Task Runners



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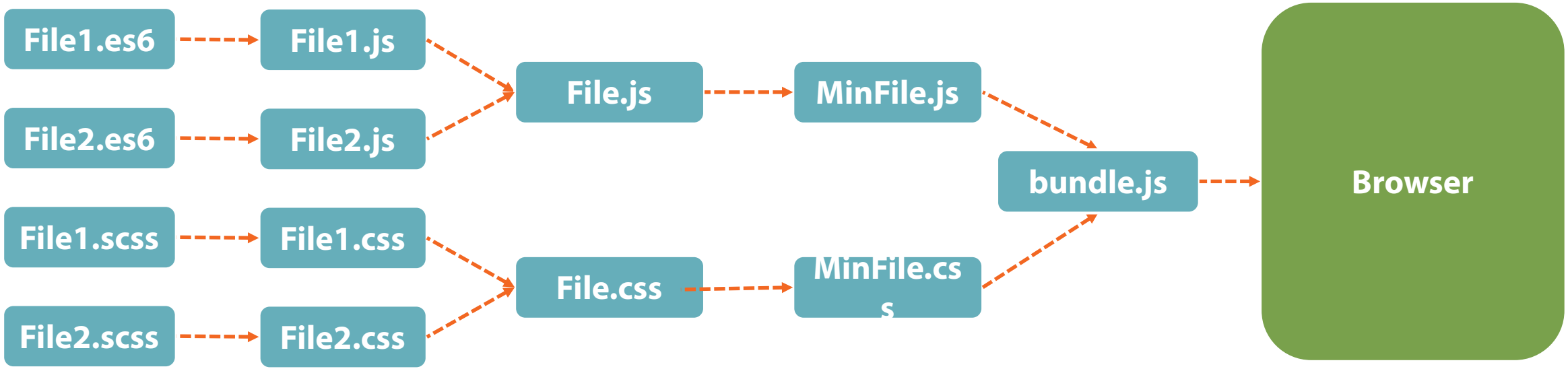
Webpack



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Webpack Conventions

Use NPM not Bower

Use a Module System

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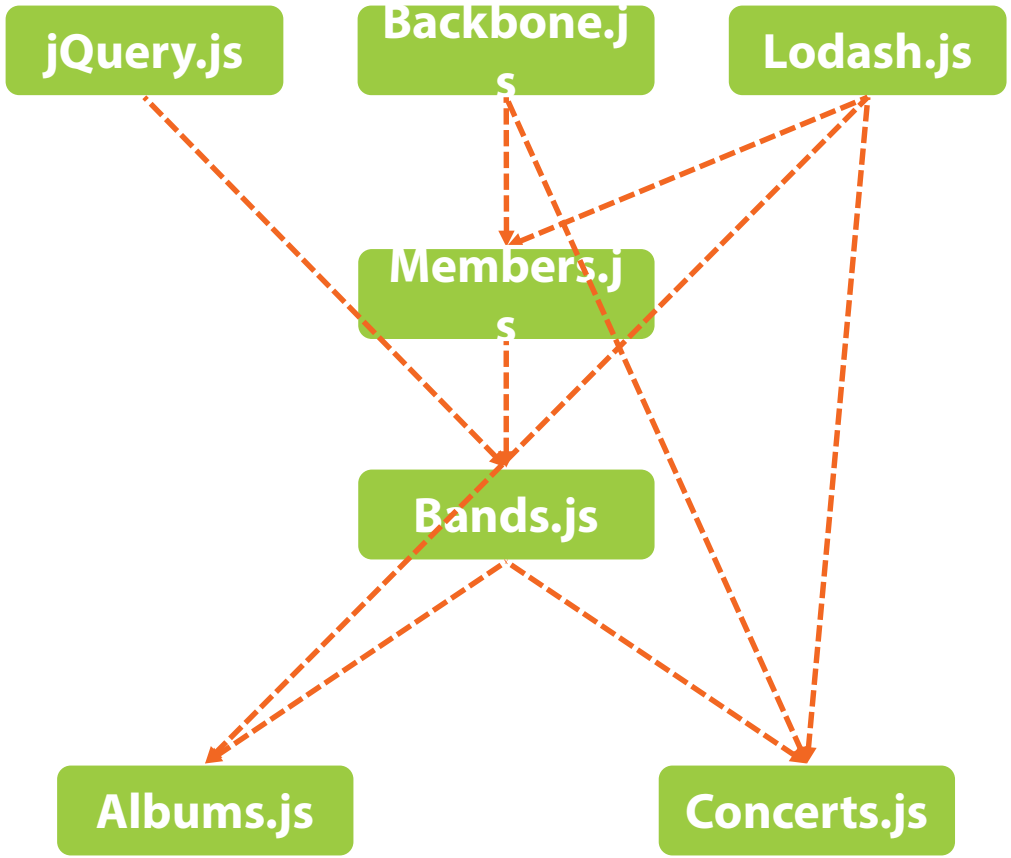
Module Systems



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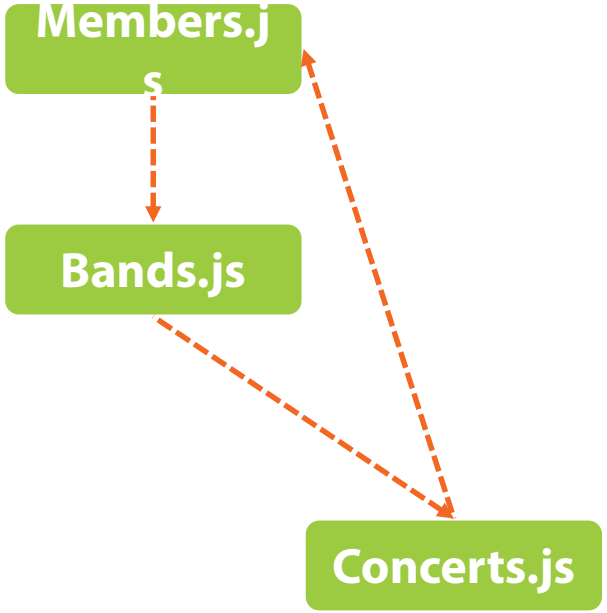
Module Systems



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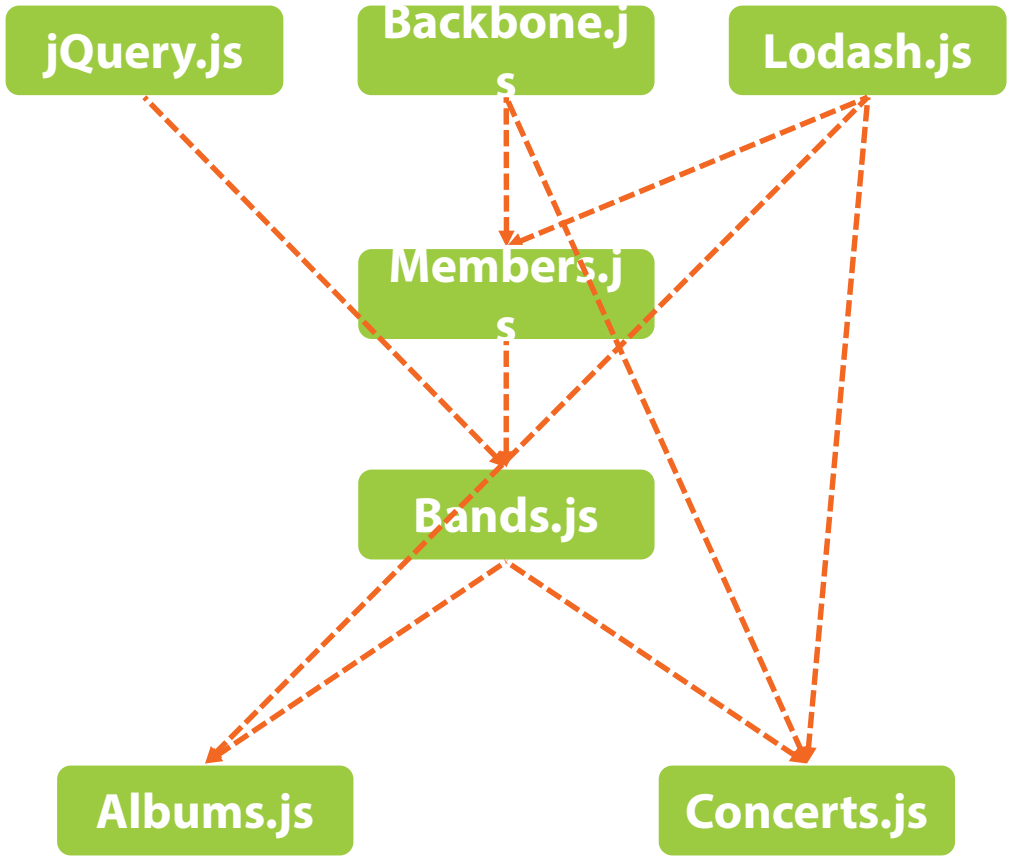
Module Systems



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Concerts.js

```
var bands = require('./Bands');
var Backbone = require('Backbone');
var Lodash = require('Lodash');

// code
```

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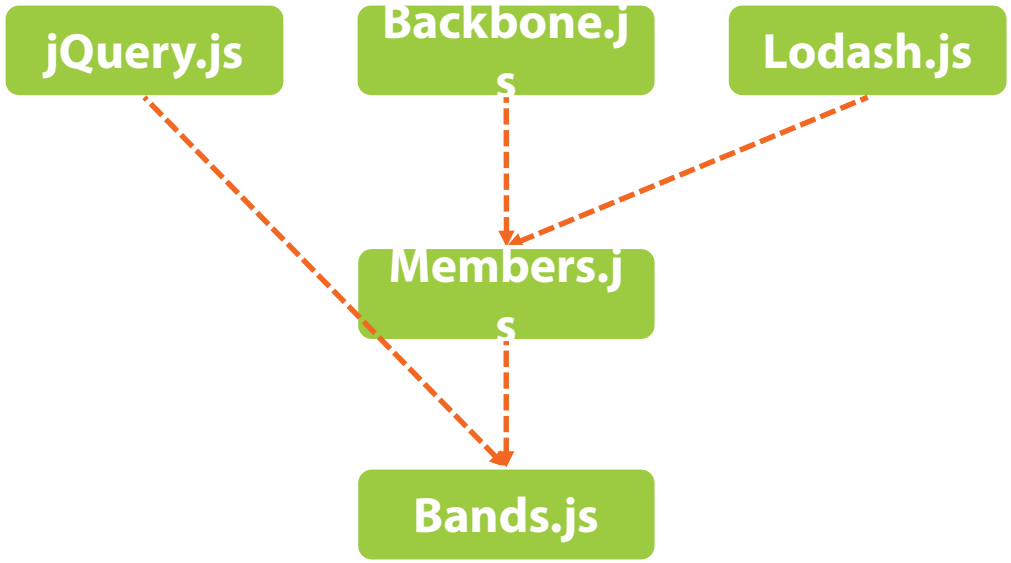
Module Systems



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Bands.js

```
var $ = require('jQuery');
var members = require('./Members');

// code
```

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Summary

- Introduction
- The Need for a Build
- Alternate Solutions
- Webpack
- Module Systems

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