Going to Production

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Agenda

Preparation Levels

Minimal

Tune RxJS Requests

Enable Prod Mode

Full

Use AOT

Bundle

Minify

Tree Shake

Lazy Loading

Use Lazy Loaded Modules

How Many Modules Should I Create?

Minification, Bundling, Code Splitting, and Tree Shaking

Minification

Source

```
export class orderService {

  addOrder(order) {
    ...
  }

  findOrder(id) {
    ...
  }

}
```
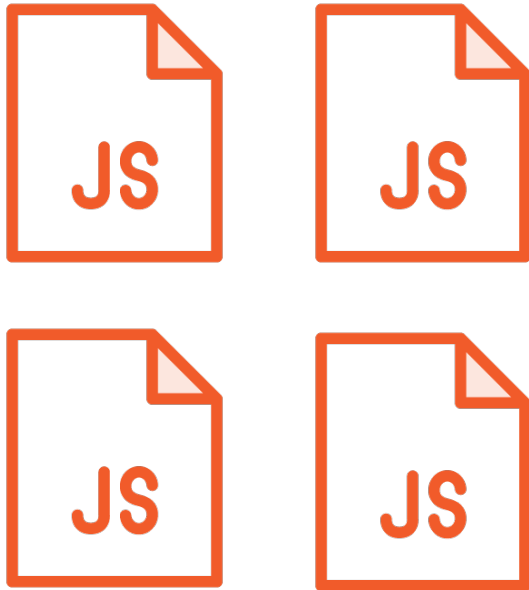
Service

```
export class orderService{addOrder(order){...}findOrder(id){...}}
```
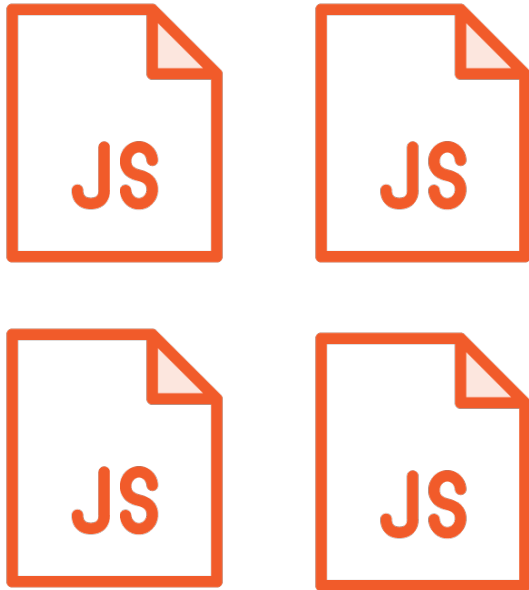
Bundling

Development

Production

Code Splitting

Bundled

Split

Tree Shaking

Calling Code

Service

...
userService.getUsers()
...

→

```
export class UserService {
  getUsers() {
    ...
  }

  getUser(id) {
    ...
  }
}
```

Bundler Options
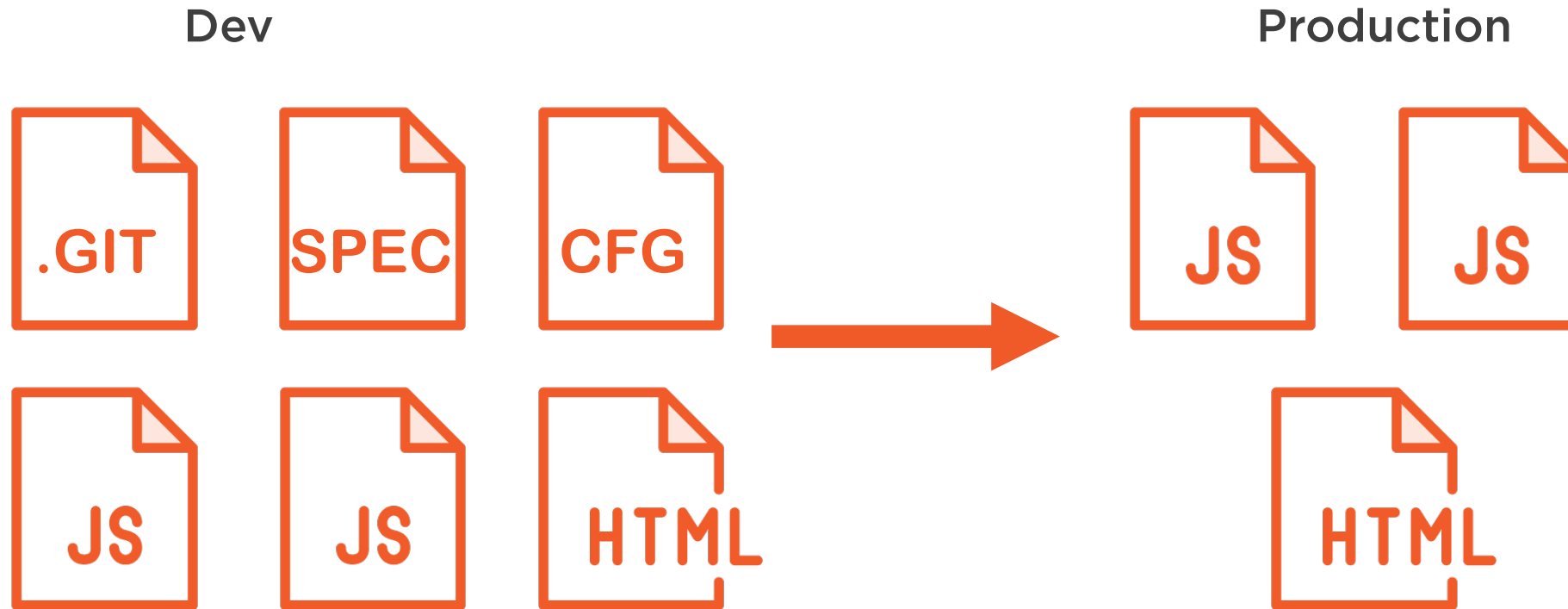
SystemJS

Rollup

Webpack

Simple Copy Deployment

Dev

Production

AOT Benefits

Faster Rendering

Fewer Requests

Smaller Angular Framework Download

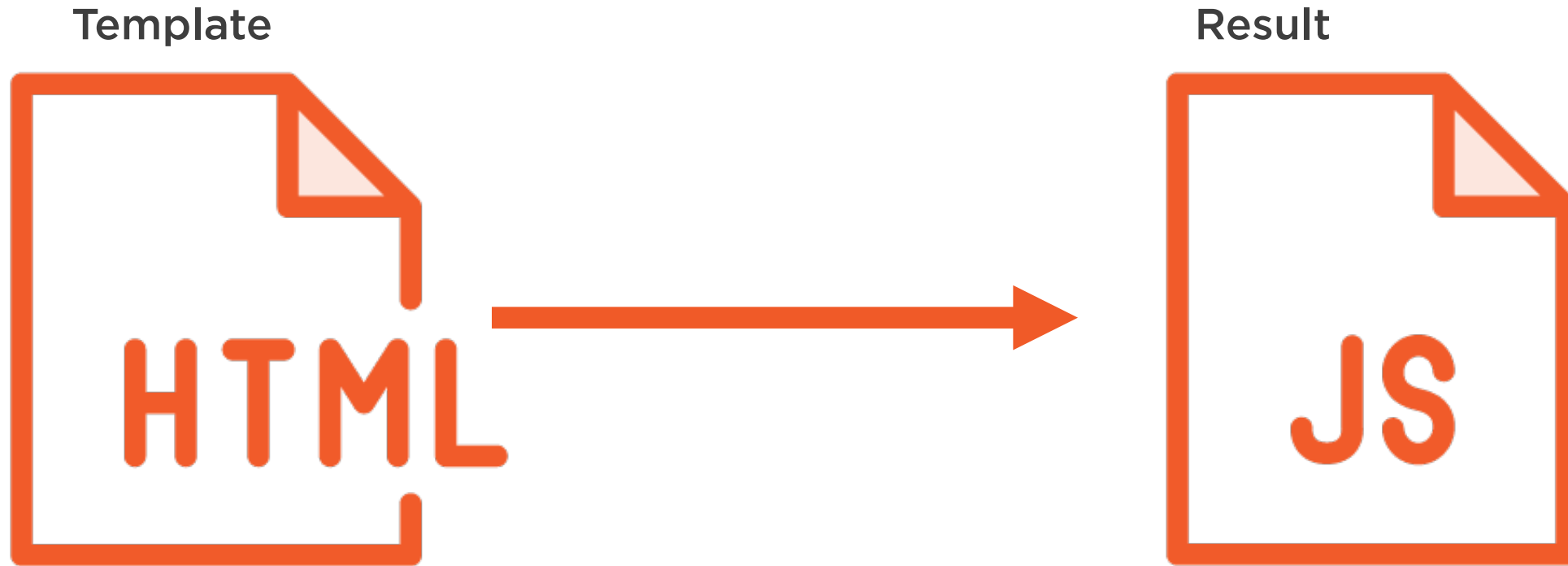**Detect Template Errors**

Better Security

Compiling Templates

Template

Result

```
<div well-title>

    {{session.name}}

    <i *ngIf="session.voters.length > 3"

        class="glyphicon glyphicon-fire"

        style="color:red"></i>

</div>
```

Development = Just In Time Compiler

Much of Angular Needed in Browser is the Compiler

Takes Time to Compile Templates

Production = Ahead of Time Compiler

AOT No-No's

form.controls.controlName

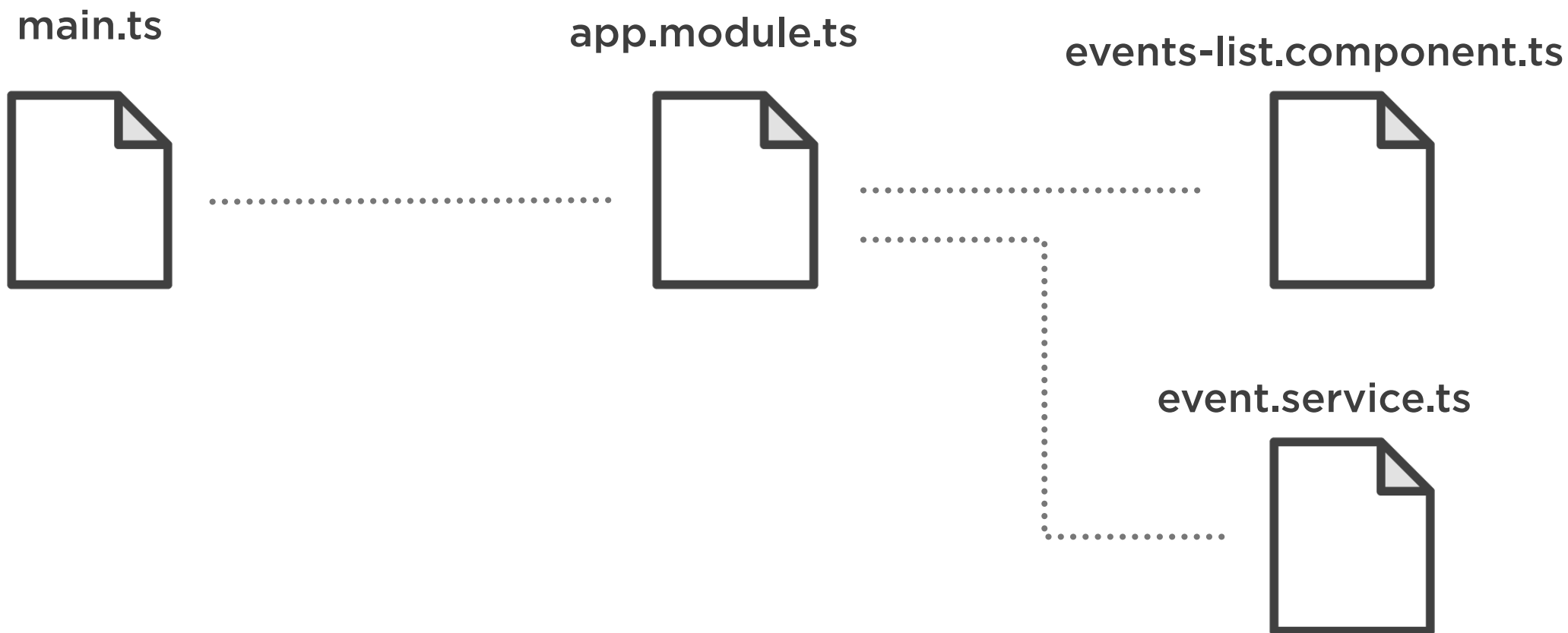control.errors?.someError

Default exports

Functions in providers, routes or declarations of a module

Any field used in a template, including Inputs, must be public

declare var for globals

ES6 Module Tree

main.ts

app.module.ts

events-list.component.ts

event.service.ts

Summary

Linting
RxJS Requests
Prod Mode
AOT
Bundling & Tree Shaking
Webpack
Optimistic Bundle Download

Thank You