



Using Webpack with `${backendTechnology}`

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Webpack is awesome

**Webpack is awesome,
but...**

What if you need to
combine it with **Node.js**?

What if you need to
combine it with **PHP**?

What if you need to
combine it with **Ruby on Rails**?

What if you need to
combine it with **Django**?

What if you need to
combine it with **Spring**?

What if you need to
combine it with Rust?

What if you need to
combine it with Swift?

What if you need to
combine it with Haskell?

What if you need to
combine it with COBOL?

There is a way!



WEBPACK + NODE.JS

NODE.JS

- Special case (same language)
- Three approaches

1) STATIC ASSETS

- Build the assets during deployment and serve them statically
 - nginx / apache
 - express-static
 - some other way

2) WEBPACK-ISOMORPHIC-TOOLS

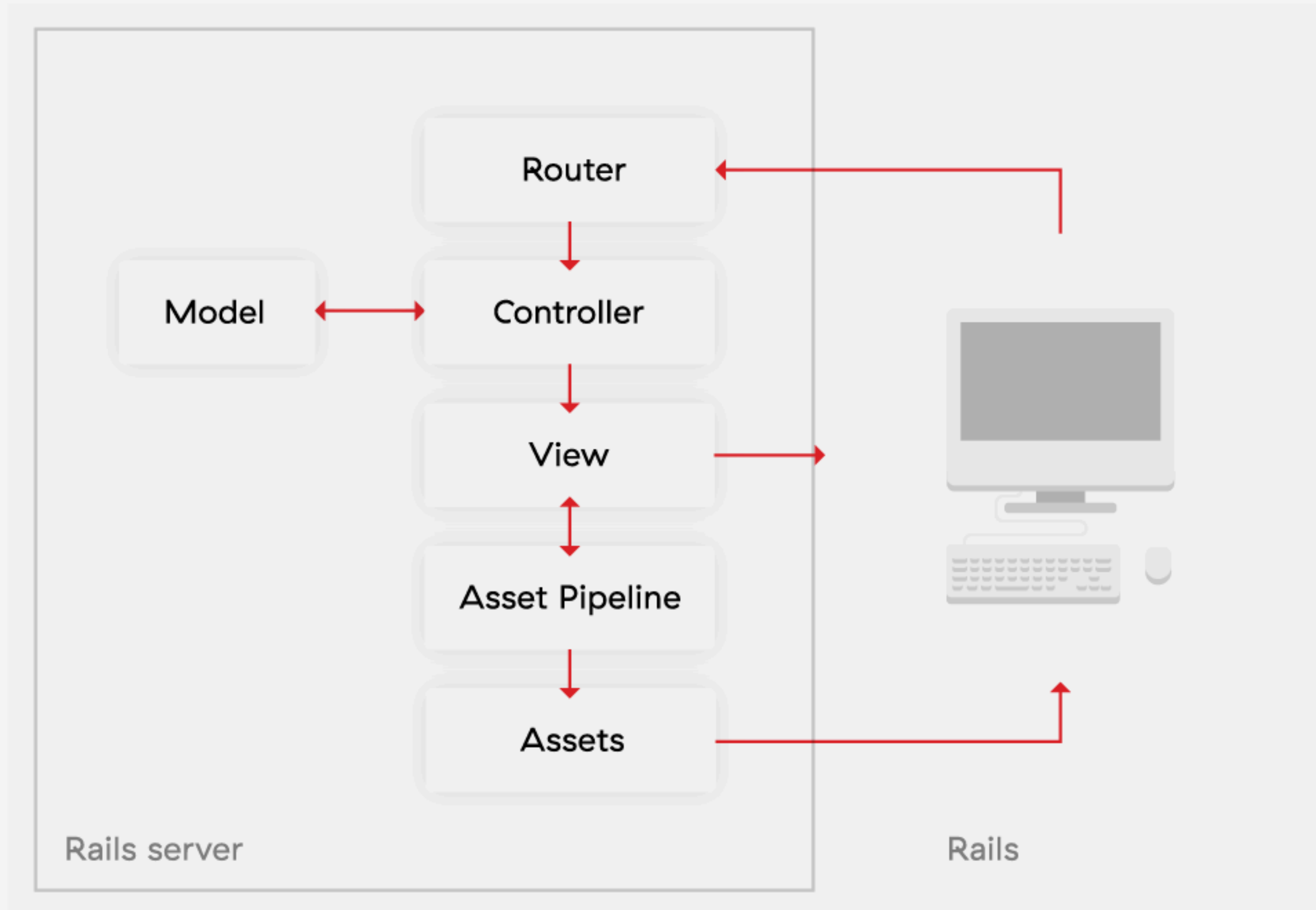
- Monkeypatch the node require
- Buggy
- Officially not recommended

3) PASS NODE.JS CODE TROUGH WEBPACK

- e.g. using universal-webpack
- Both server and client code pass trough the same process
 - target: “web”
 - target: “node”
- Hot reloading!

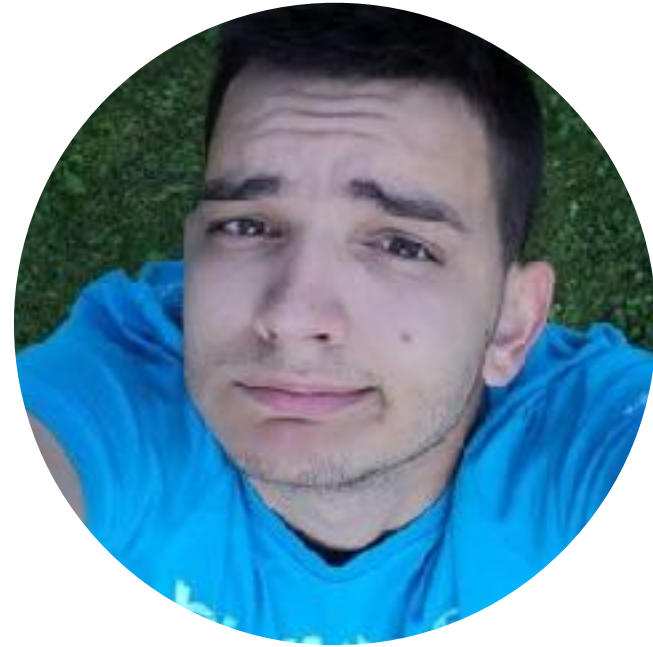
WEBPACK + RUBY ON RAILS

RAILS ASSET PIPELINE



RUBY ON RAILS

- SOLUTION IS GENERIC – IT APPLIES TO ANY TECHNOLOGY
- webpack–asset–pipeline



WEBPACK-ASSET-PIPELINE

- Creates a manifest JSON with file mappings

Using assets from JS

```
// application.js
```

```
require('images/file1.jpg');  
require('images/file2.jpg');  
require('images/file3.jpg');
```


manifest.json

```
{  
  "application.js": "application-63eb3290f4d9a09812716b989a0808f3.js",  
  "images/file1.jpg": "963eb32907744d9a0d6b98127162808f.jpg",  
  "images/file2.jpg": "162808f4d9a0963eb3290774127d6b98.jpg",  
  "images/file3.jpg": "d6b98127162969a0808f3eb32907744d.jpg"  
}
```

Ruby on Rails + WebpackHelper

```

```

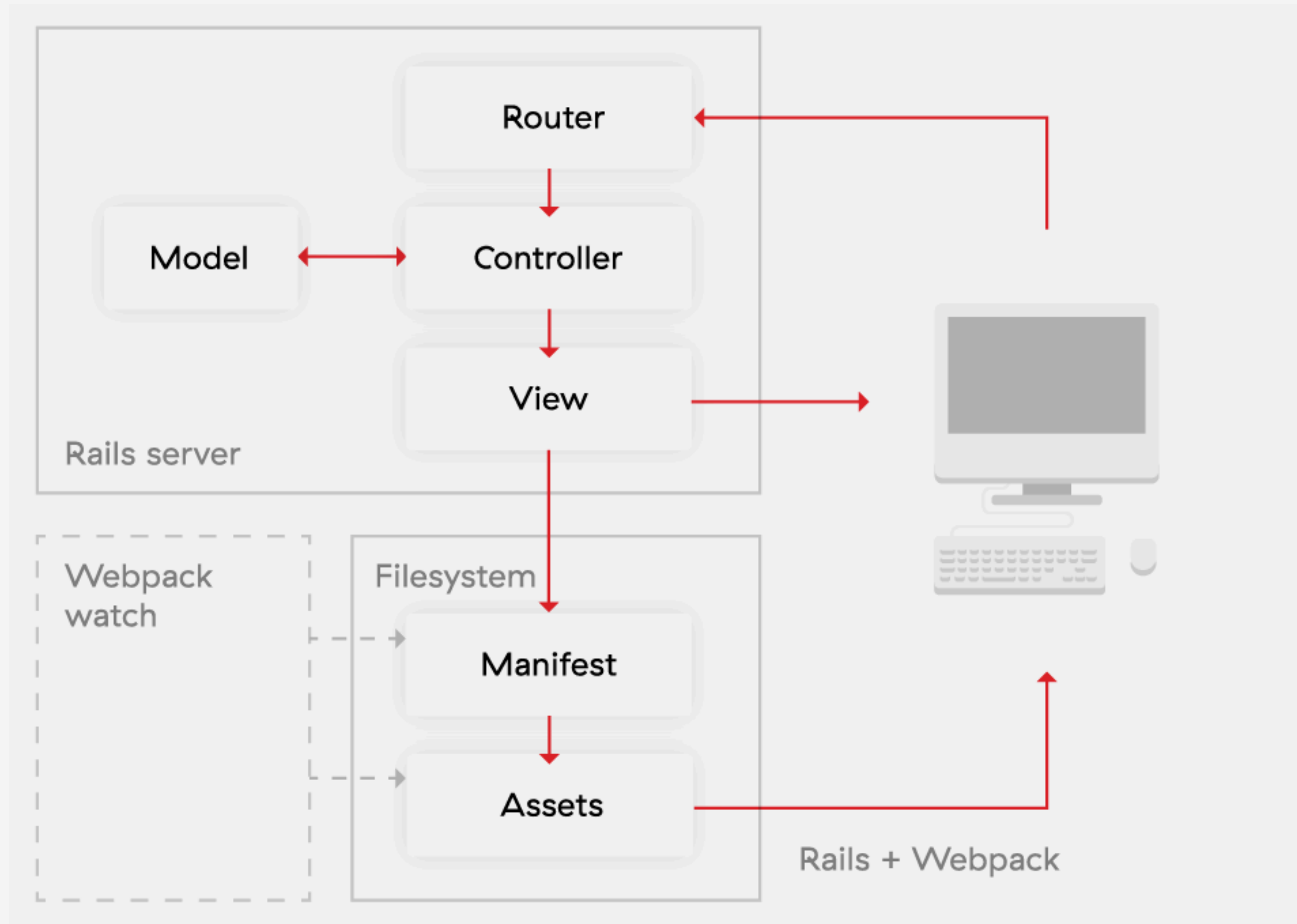
Ruby on Rails + Monkey patched assets helpers

```
= image_tag('logo.svg')
```

```
= stylesheet_link_tag 'application', media: 'all'
```

```
= javascript_include_tag 'application'
```

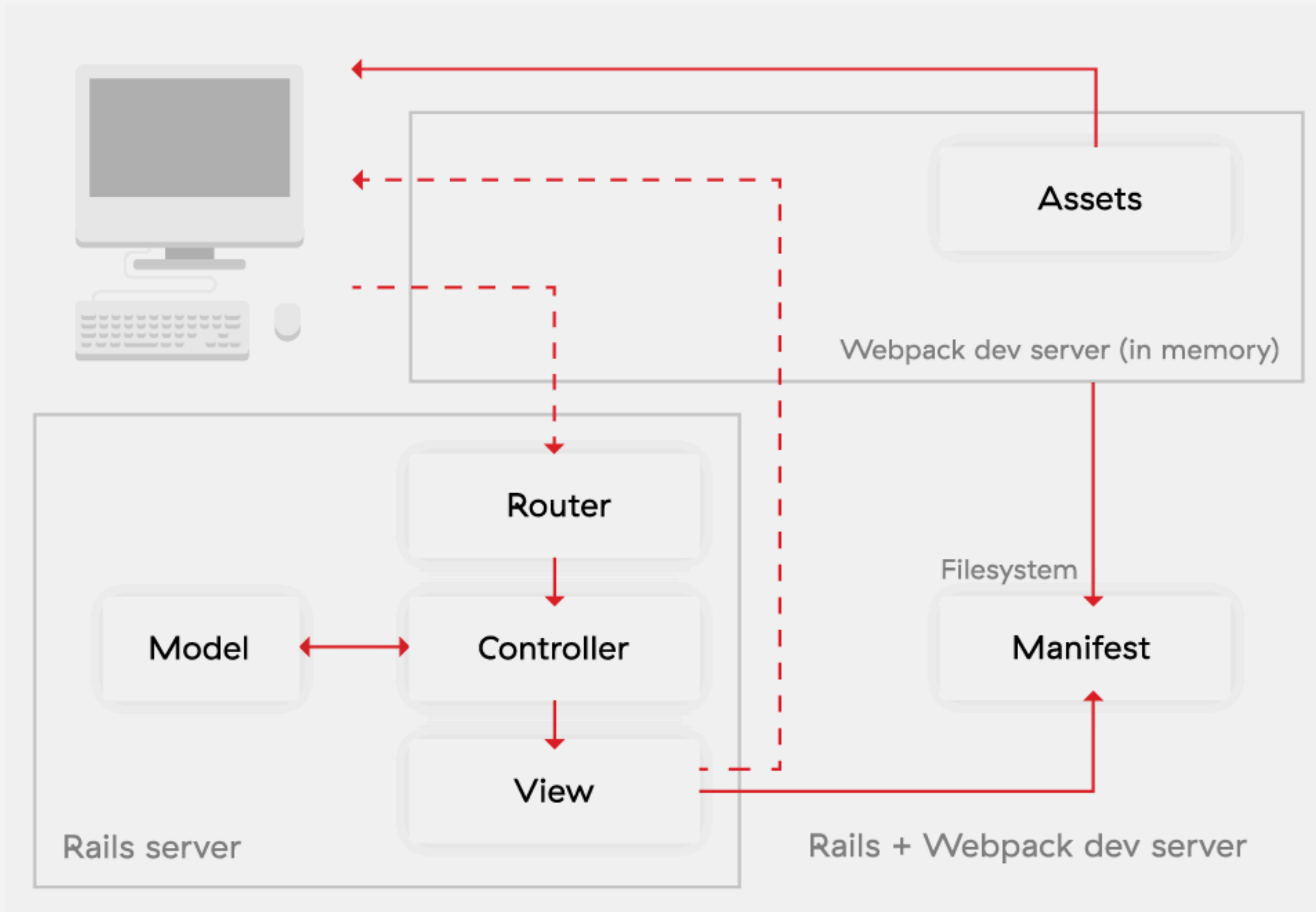
RAILS + WEBPACK-ASSET-PIPELINE



HOT RELOADING

- webpack-dev-server
- webpack-dev-middleware + express
 - webpack-express-dev-server-boilerplate

RAILS + WEBPACK-ASSET-PIPELINE + HOT RELOADING



OTHER BACKEND TECHNOLOGIES...

Same principle – make a helper that reads manifest.json

Contributions welcome!

<https://github.com/infinum/webpack-asset-pipeline/tree/master/documentation/integrations>



Thank you!

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Questions?

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