Write powerful Javascript modules to make your apps **DRY**

DevNation 2016

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@bleathem

RED HAT®
MOBILE APPLICATION
PLATFORM

Field Workforce Management

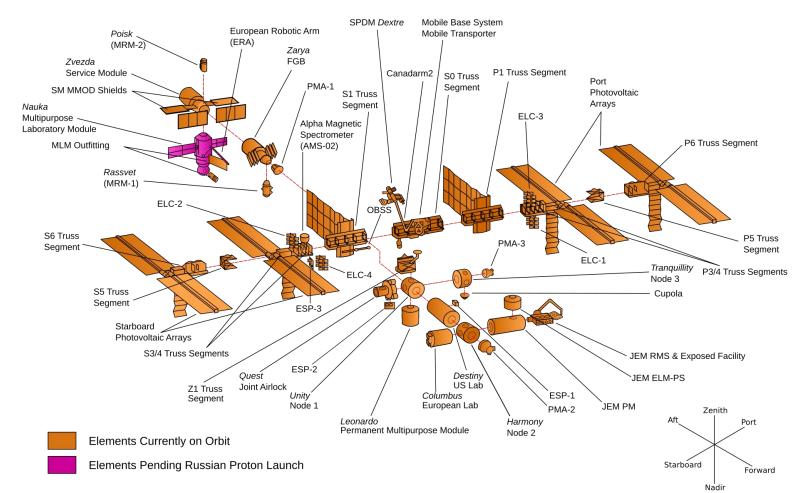




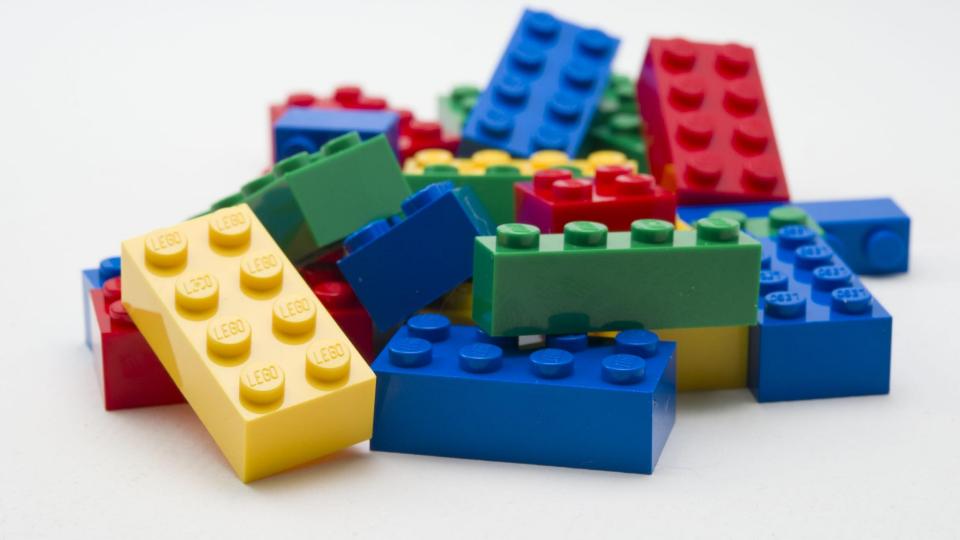


ISS Configuration

As of May 2011 (ULF6 - STS-134)

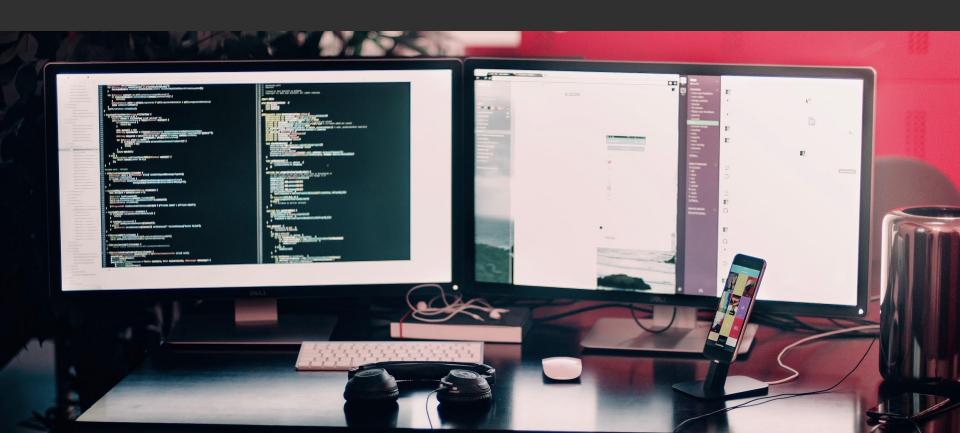








Modularity in Software Engineering

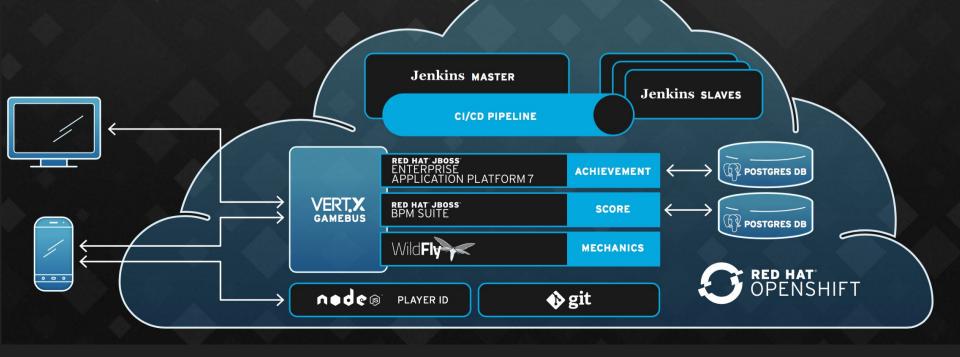








At large scale



Keynote Microservices

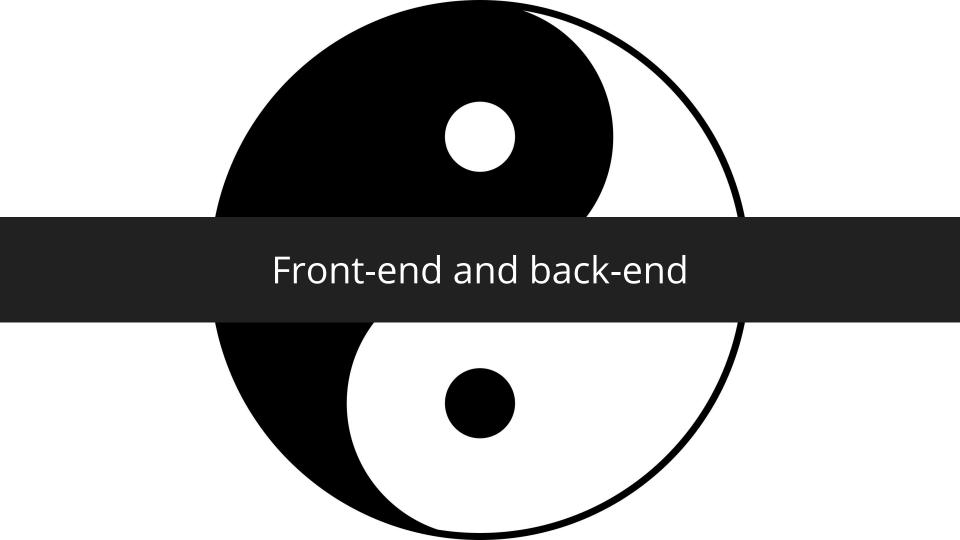
At small scales: Keeping your code DRY



Don't Repeat Yourself

Why DRY?

Bring it back to javascript



Javascript Libraries



Javascript Build Tools





Testing



Frontend / UI



Javascript Libraries



Other libraries



More prescriptive frameworks



Cordova plugins

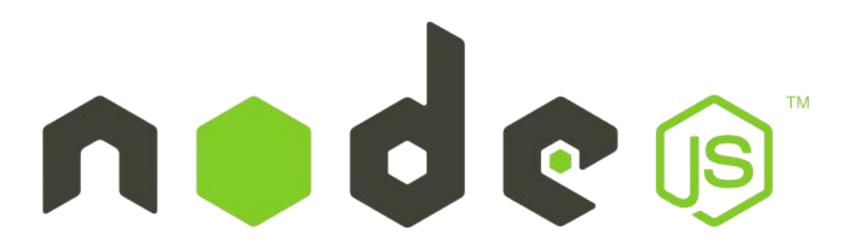


CSS libraries

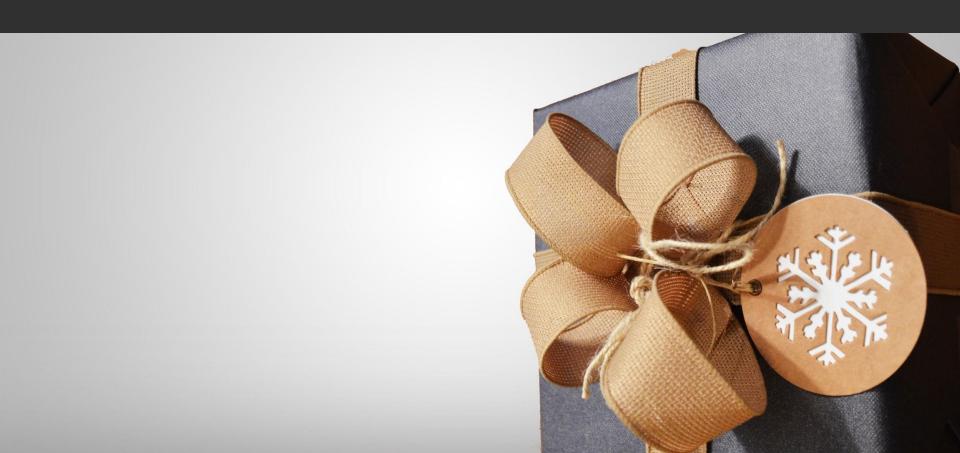


Block Element Modifier

Backend



Module Packaging & Delivery



Module Repository

Bower is dead.

Npm is king.

Jspm is looking good.



Considerations for a module system







Express



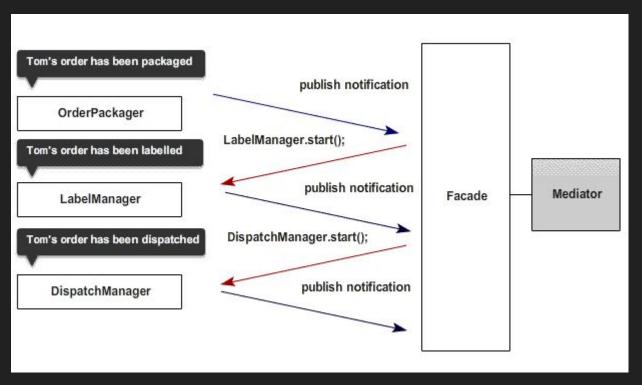
In the module:

```
module.exports = 'wfm.camera';
```

In the application:

```
require('fh-wfm-camera')
```

Mediator Pattern

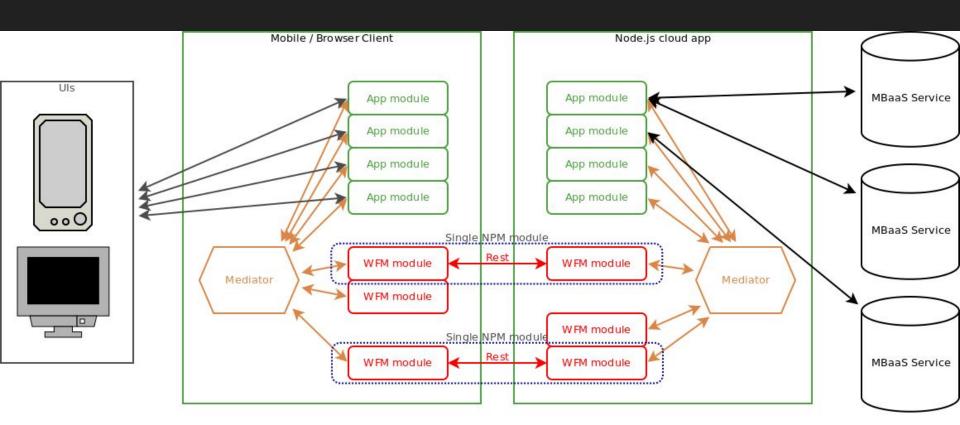


https://addyosmani.com/largescalejavascript/

Mediator Pattern in a cloud app

```
mediator.subscribe('wfm:workorder:create:',
function(object, ts) {
   self.create(object, ts)
        .then(function(object) {
    Mediator
    .publish('done:wfm:workorder:create:'+ ts,
              object);
```

WFM Architecture





RainCatcher Modules

https://github.com/feedhenry-raincatcher

Demo