

Towards Pasta Code Nirvana

Using JavaScript MV* to Fill Your Programming Ravioli

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Metaphors for
describing
software
architectures.





LOOK!
EASY OPEN
TOP

Chef
BOYARDEE

*Spaghetti
& Meatballs*
In Tomato Sauce

U.S.
DEPARTMENT OF
AGRICULTURE

NET WT.
14.50 OZ.
411g

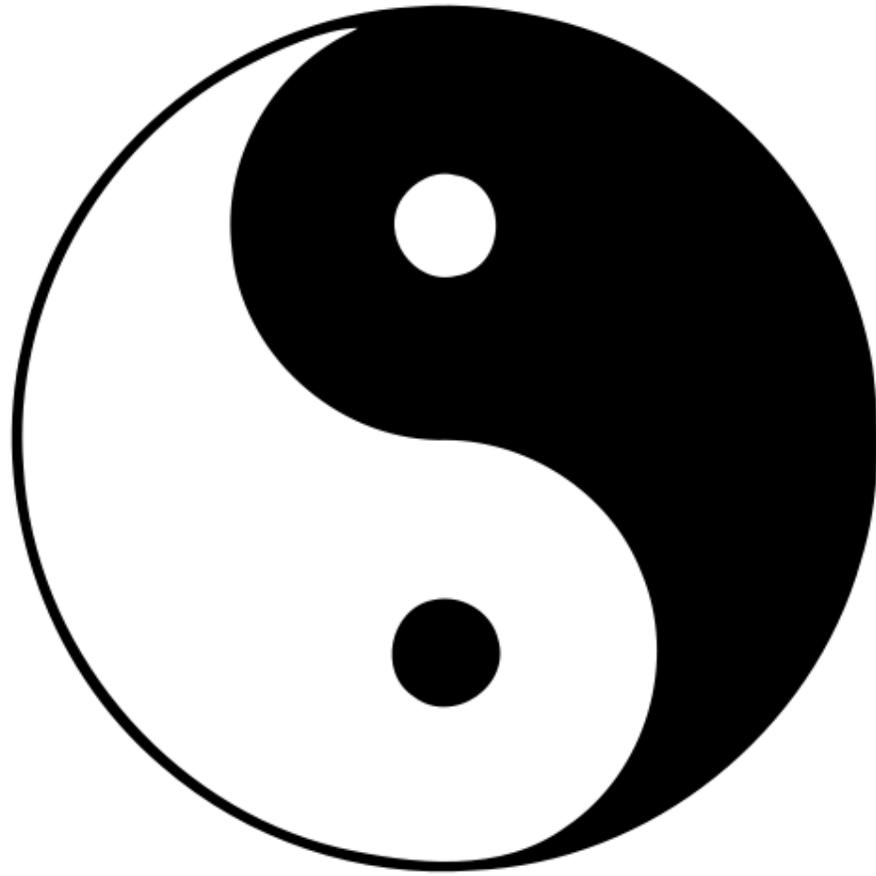
Serving
Suggestion







Modular
Reusable
Testable



Why JavaScript?

Brief History of JavaScript

- Created by Brendan Eich in 1995
- IE support in 1996
- Standardized by ECMA in 1997
- JIG coins AJAX in 2005
- V8 JS engine in 2008
- JS MVC circa 2010

JS is everywhere

JS is fast(er)

JS is the
lingua franca

What is JS MV*?

MVC - MVP - MVVM

Approximate Architecture

- Models
- Views
- Controllers
- **Data Binding**

Hello Code4Lib!

Change MSG

Hello Code4Lib!

```
<div ng-app>
  <div ng-controller="InputCtrl">
    <input type="text" ng-model="data">
    <div ng-click="updateMessage('Hello Raleigh!')">
      Change MSG
    </div>

    <h3>{{data}}</h3>
  </div>
</div>
```

```
function InputCtrl ($scope) {  
    $scope.data = 'Hello Code4Lib!';  
  
    $scope.updateMessage = function (msg) {  
        $scope.data = msg;  
    };  
}
```

MV* Benefits

- Abstracts DOM interaction
- Encourages code reuse
- Enforces modularity
- Improves testability

Architecture that
supports best
practices.

When to use?

- JS heavy applications
- Interactive applications
- Distributed applications
- Modern devices/browsers

Who is using MV*?

- USA Today
- Rdio
- Hulu
- Discourse
- Youtube on PS3
- General Motors

When to avoid?

- Need to support no-JS users
- App is document driven (blog)
- Older devices/browsers

Frameworks

- Angular
- Ember
- Backbone
- Many Others

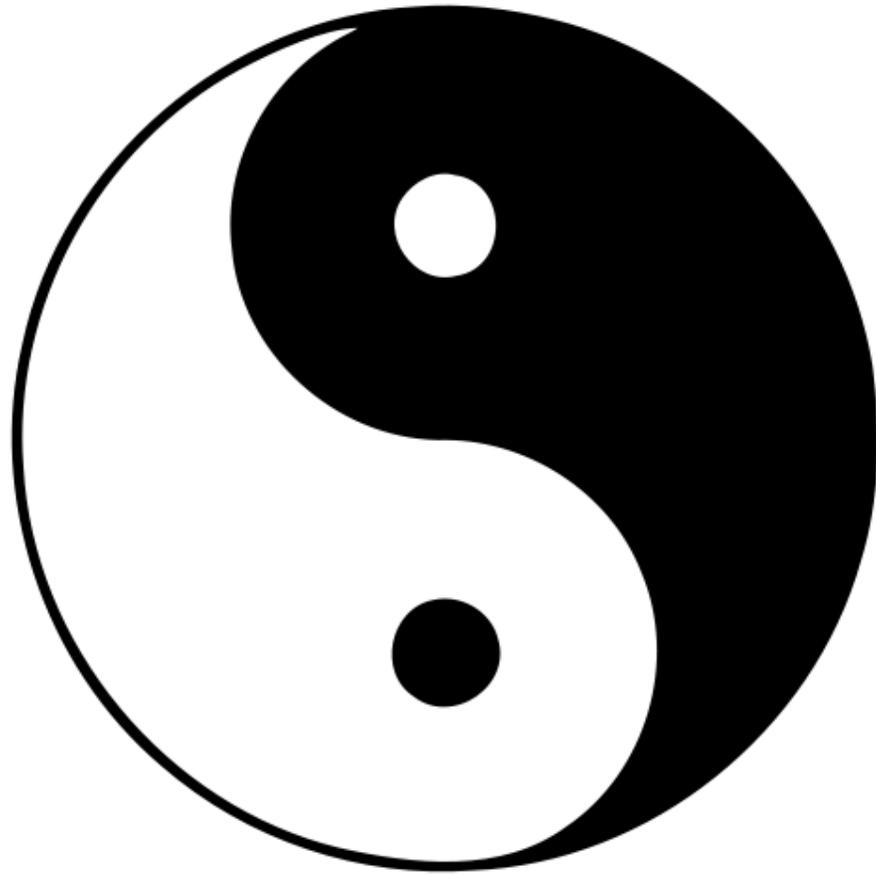
MV* Throwdown

<http://todomvc.com/>

My Experiences

Suma

github.com/cazzerson/Suma



Community

Loose Coupling

Cognitive Load

**The
Ravioli
Smile.**

