

JavaScript

Then & Now

27-2-2015: Competa



JavaScript

Then & Now

J S

Bjørn Wikkeling

vpro

ORDINA



kpn



rtl nederland

Rabobank



1971



1991 ~ Tim Berners-Lee



<DIV>Q: HOW DO YOU ANNOY A WEB DEVELOPER?

source: xkcd.com/1144

1993 ~ Mosaic



First popular web browser



Wiki does not exist

File Edit View Favorites Help

Address: <http://en.wikipedia.org/>

/**/ /**/ /**/ [img]

Wiki does not exist

From Meta, a wiki about Wikimedia

This wiki does not exist yet. Perhaps you are looking for one of our other projects:

Projects

[Complete list of wikimedia projects](#)

[Proposals of new projects](#)

[Wiktionaries](#)

Layout complete

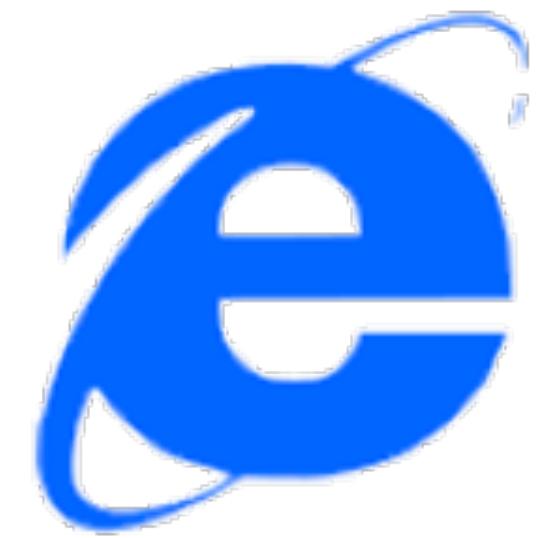
Netscape Navigator (TM)
version 1.0N
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Report any problems to nsc_cheg@uscan.com.

Netscape Communications Corporation

1995 ~ Browser Wars



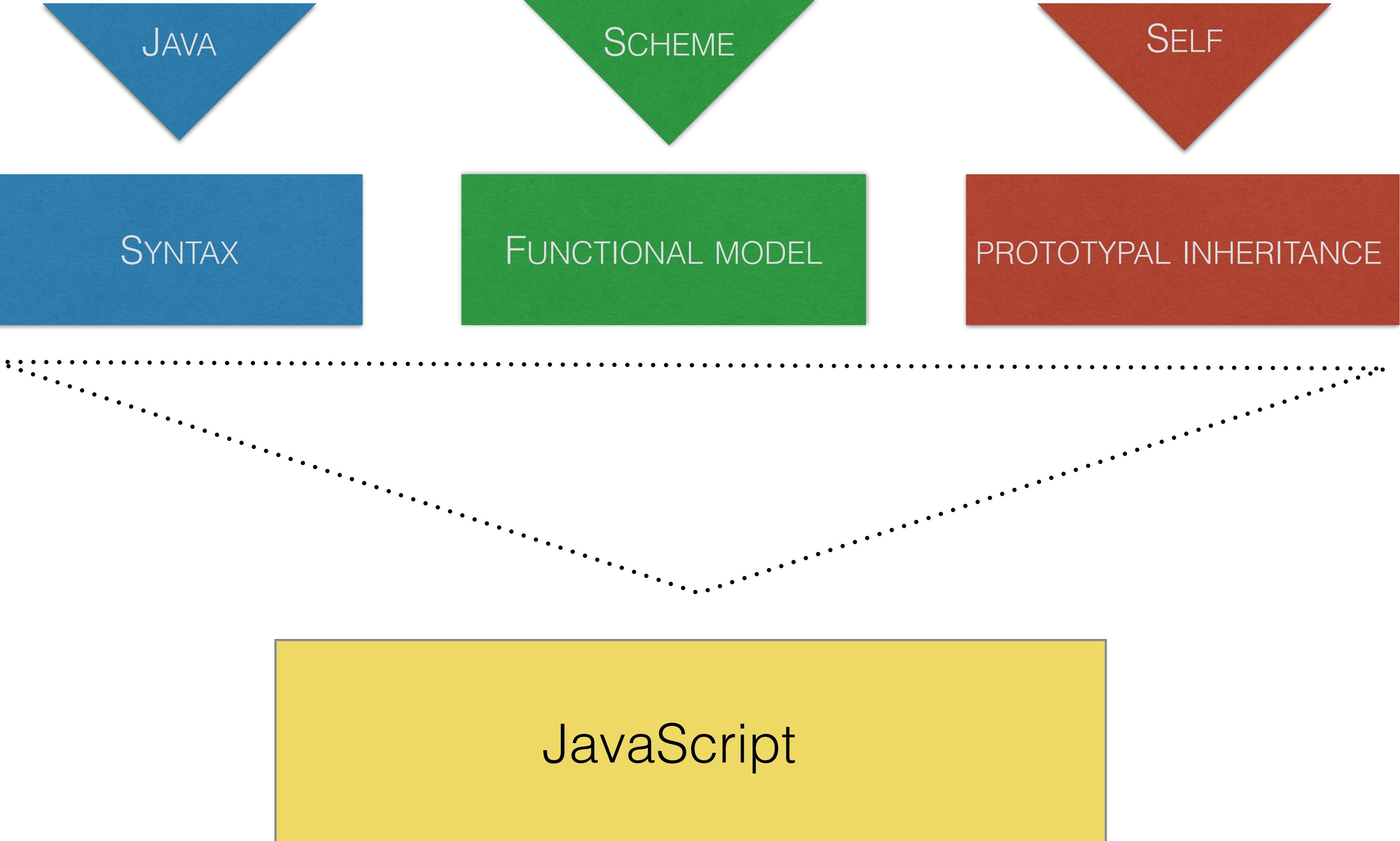
vs





JavaScript





JAVA

SCHEME

SELF

SYNTAX

FUNCTIONAL MODEL

PROTOTYPAL INHERITANCE

~~JavaScript~~
Mocha

JAVA

SCHEME

SELF

SYNTAX

FUNCTIONAL MODEL

PROTOTYPAL INHERITANCE

~~JavaScript~~
~~Mocha~~
LiveScript

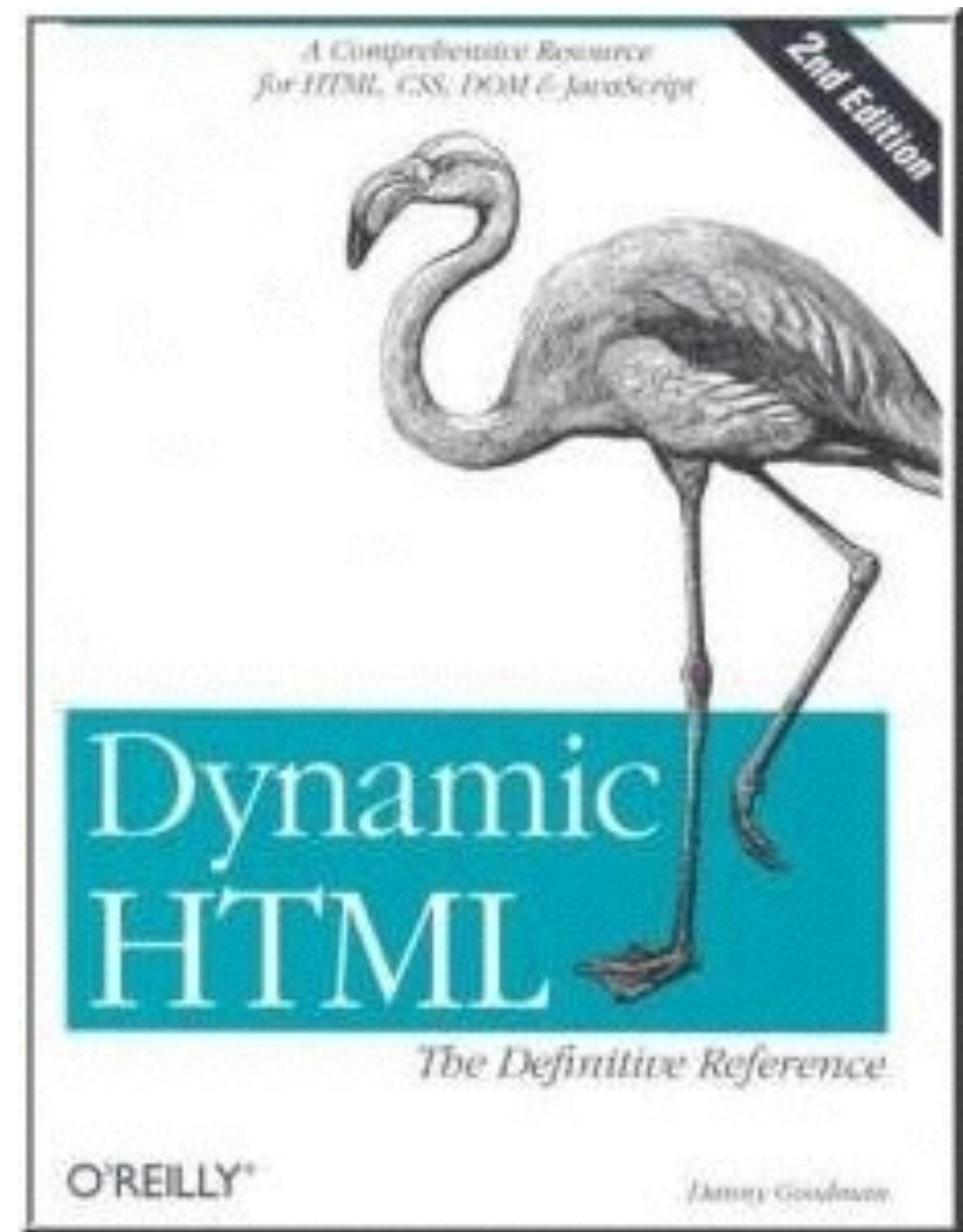


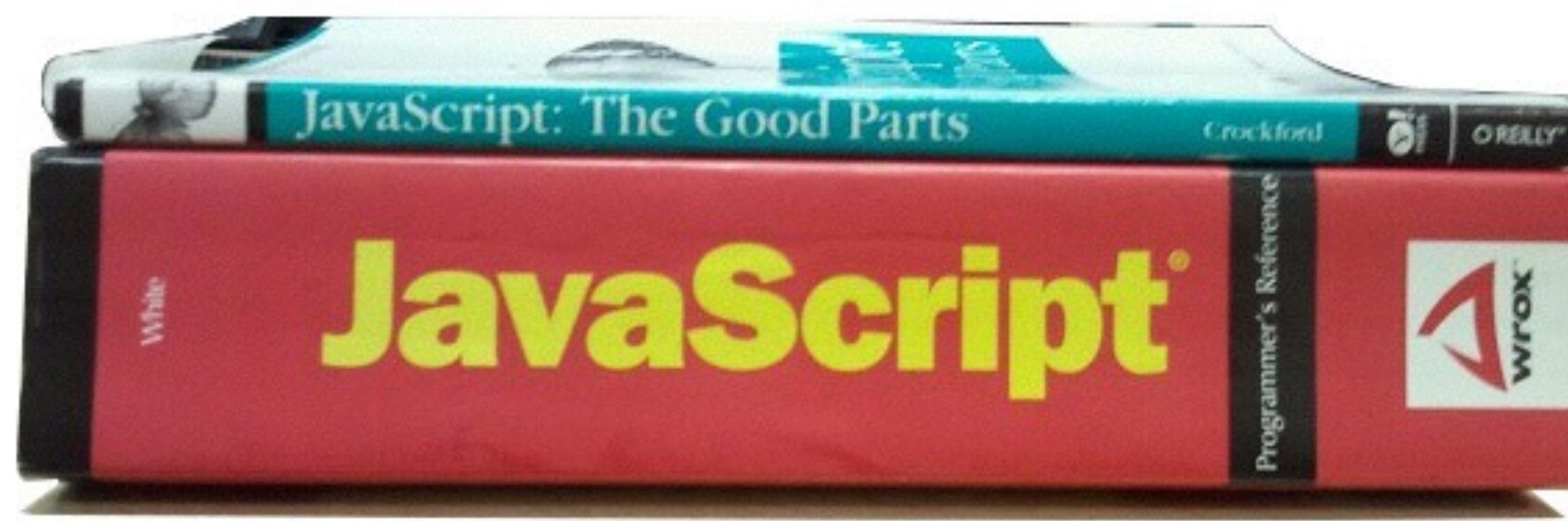
JavaScript === JScript === ECMAScript

HOW STANDARDS PROLIFERATE:



source: xkcd.com/927









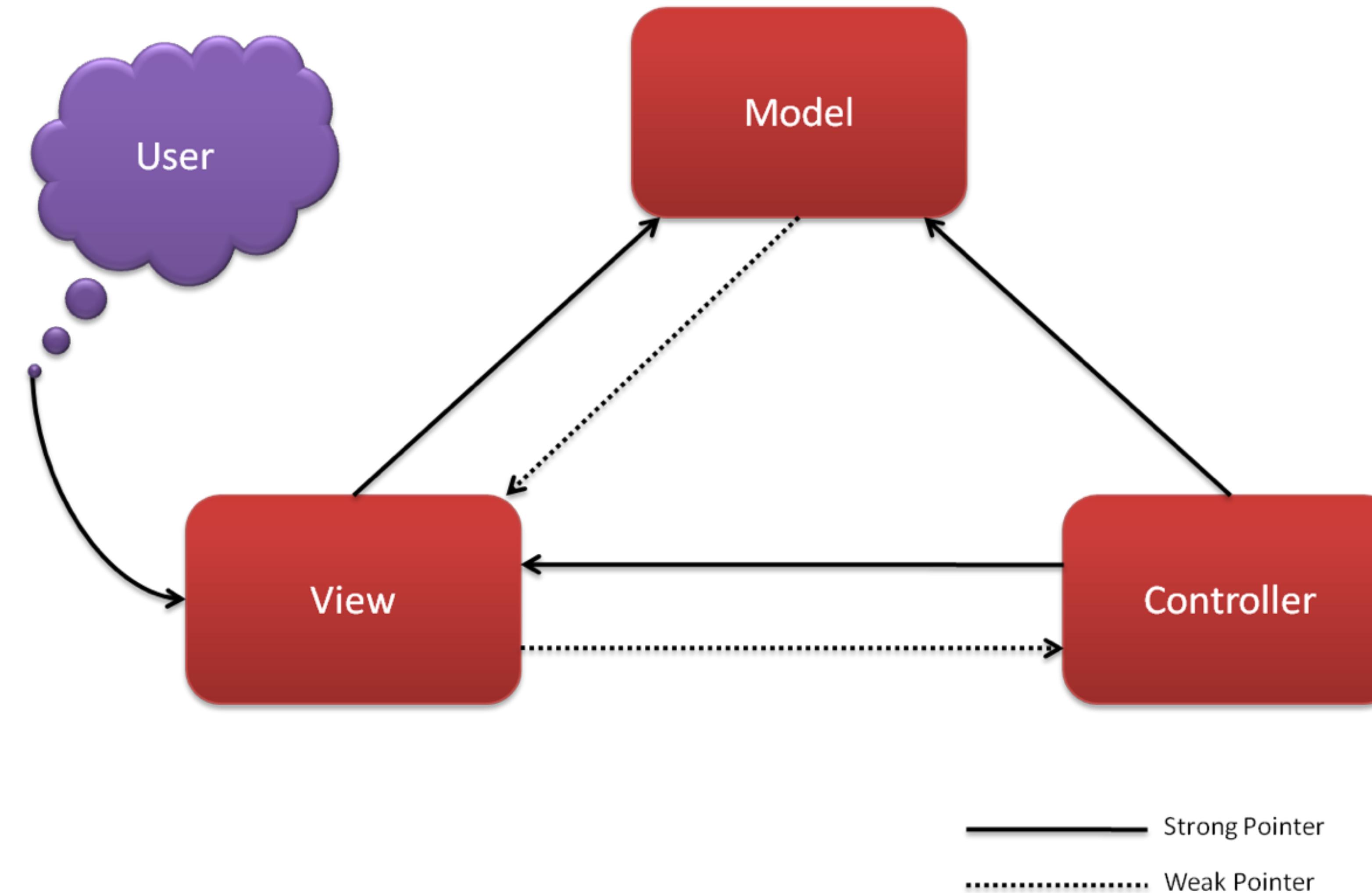
prototype

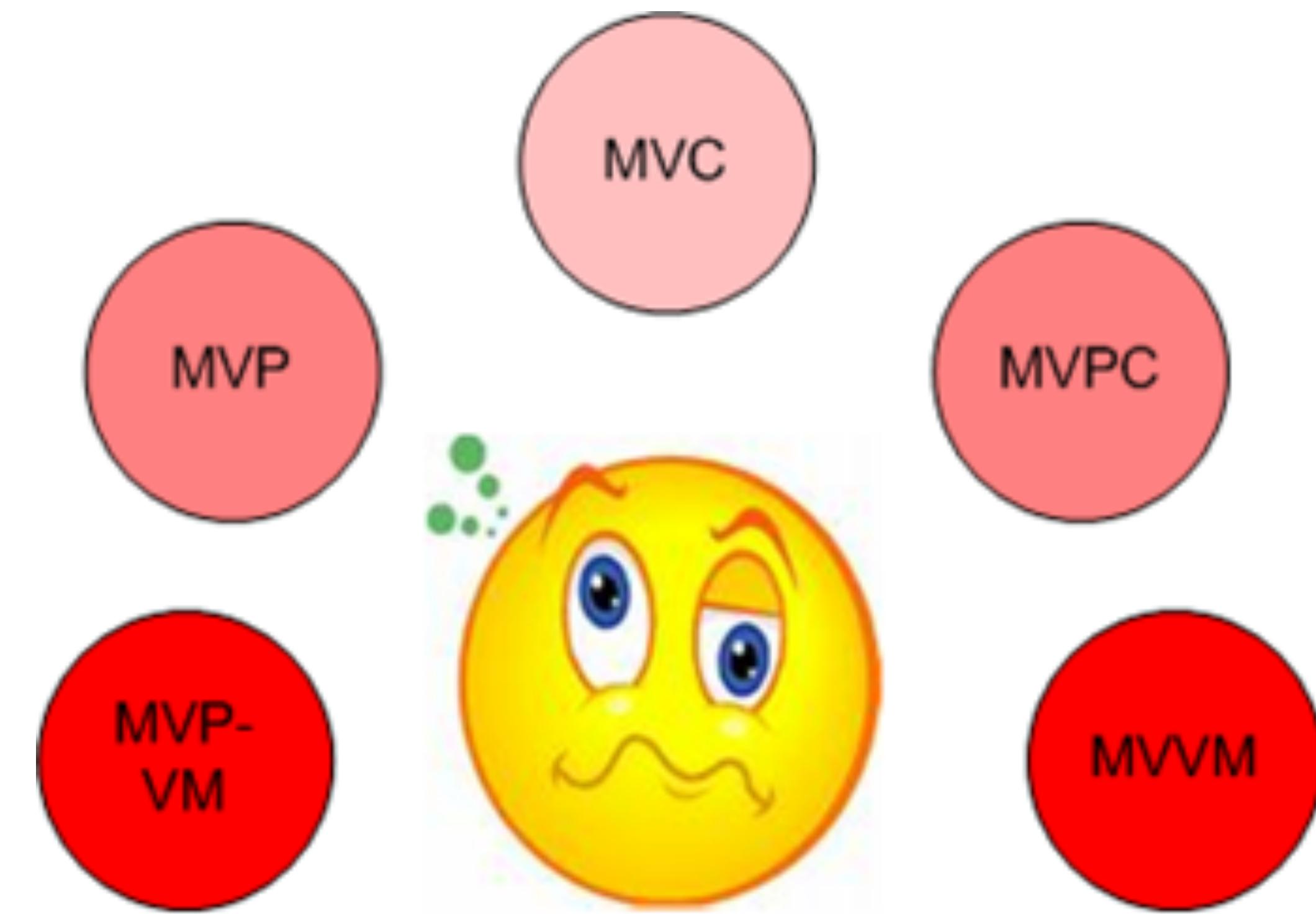




Library vs Framework

MVC ~ Model View Controller





MV*

MVW

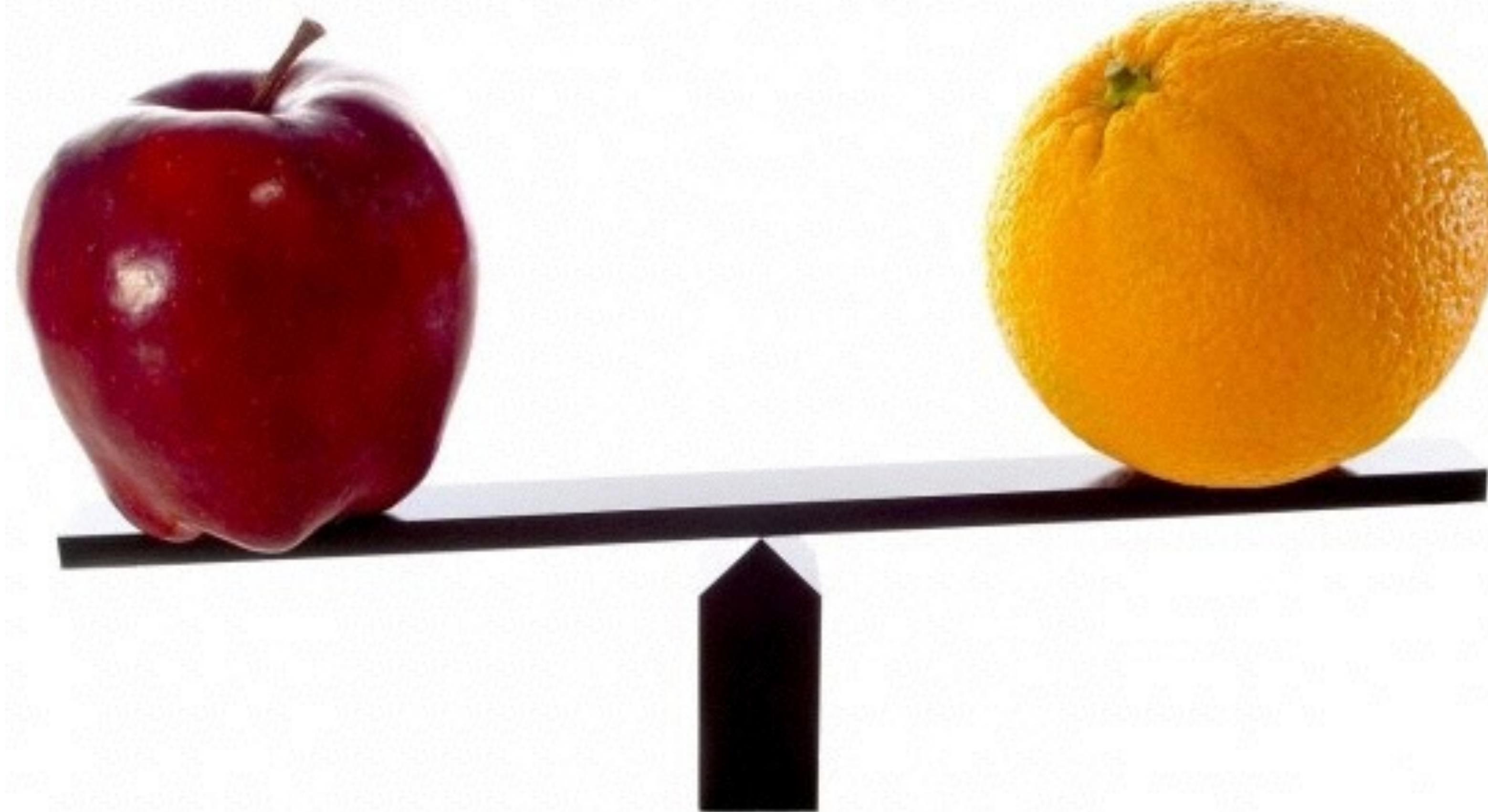
Model View *Whatever*

Knockout.

 BACKBONE.JS



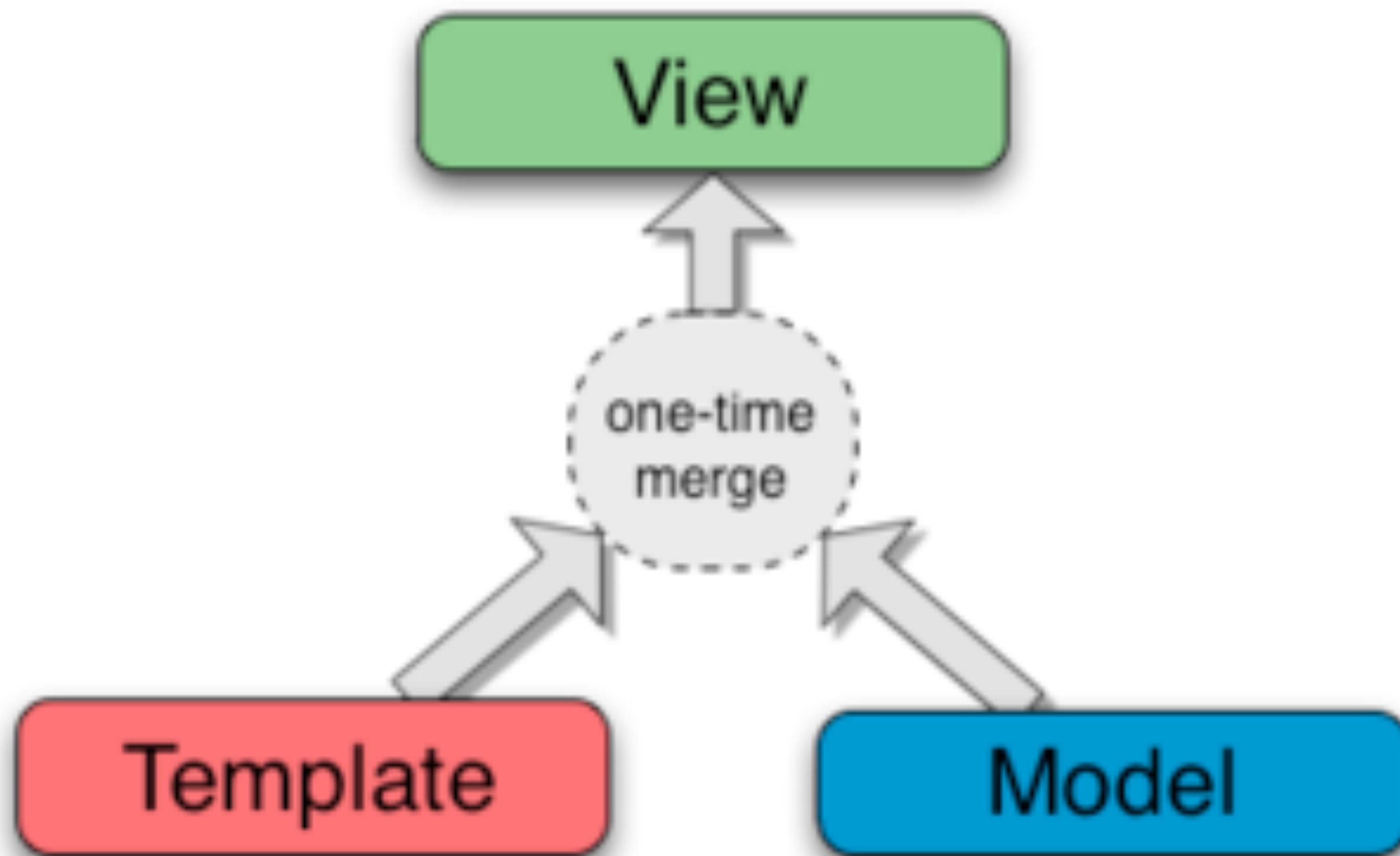
 **ANGULARJS**
by Google



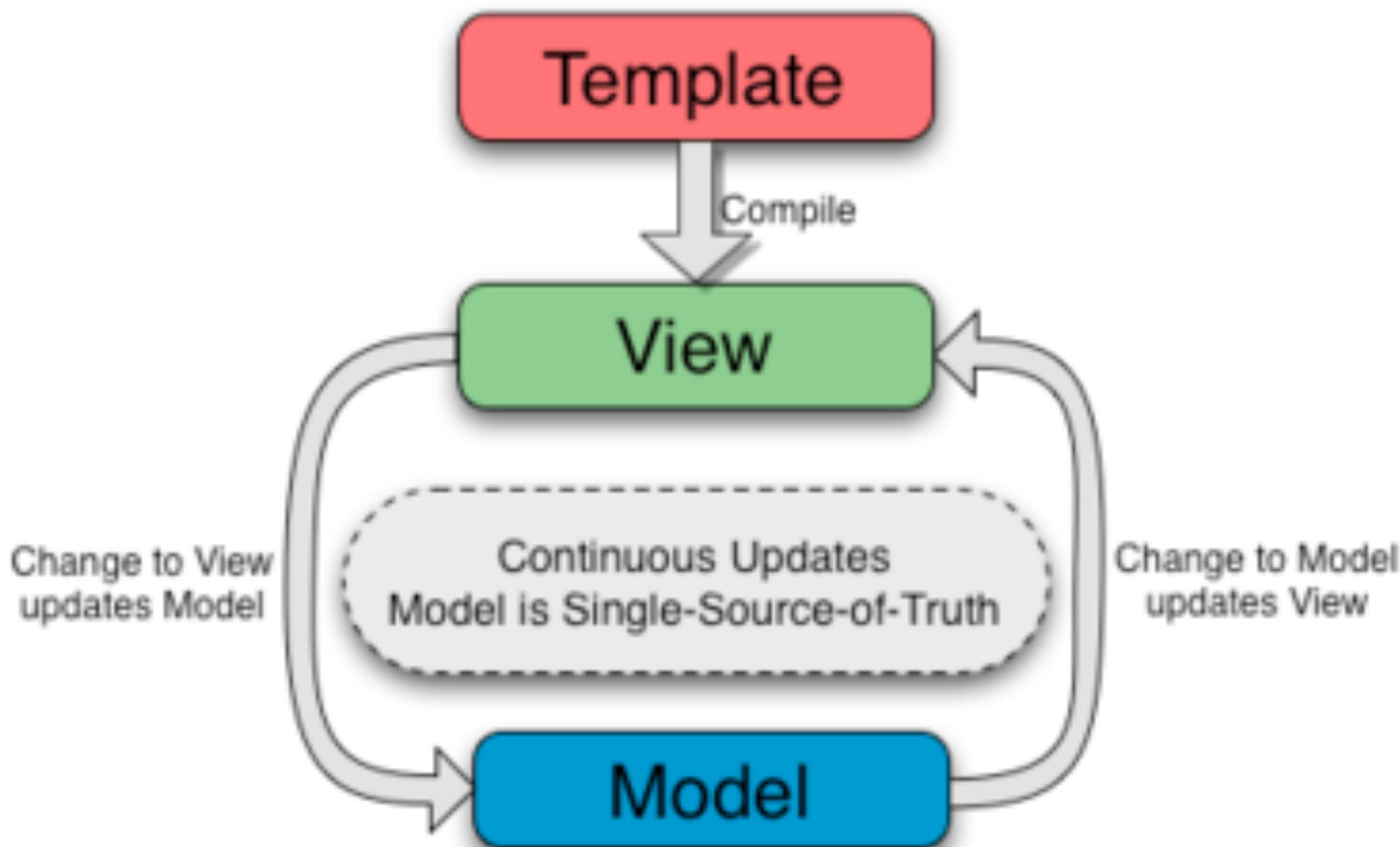
Data binding

Data binding	
Backbone.js	✗
Knockout.js	✓
AngularJS	✓
Ember.js	✓

One-Way Data Binding



Two-Way Data Binding



Demo

Two-way data binding (1)

Knockout.

```
<span data-bind="text: message"></span>

<!-- or in an input field: -->
<input data-bind="value: message">

<script>
    var message = ko.observable();

        // set the value
    message('Hello World!');

        // get the value
    message(); // returns 'Hello World!'
</script>
```



```
<span>{{message}}</span>

{{Ember.TextField valueBinding = message}}


<script>
  var email = Ember.Object.create({
    message: ''
  });

  // set the value
  email.set('message', 'Hello World!');

  // get the value
  email.get('message');
</script>
```

Dirty Checking vs Observables

	Data binding	Observables
Backbone.js	✗	n/a
Knockout.js	✓	✓
AngularJS	✓	✗
Ember.js	✓	✓



A JAVASCRIPT LIBRARY FOR BUILDING
USER INTERFACES



File size

	version	minified	gzipped
Backbone.js	1.1.2	20 kb	6.5 kb
Knockout.js	3.0.0	45 kb	16.6 kb
AngularJS	1.2.13	99 kb	36.5 kb
Ember.js	1.4.0	258 kb	71.8 kb

	normal	gzipped
Google Logo	14 kb	13.5 kb
Bing Background	172 kb	169.3 kb



A B C D E F G I J L M P
H K N O Q R S T U Y X Z





My Feelings About AngularJS Over Time

source: bennadel.com

jsperf.com



Demo

Angular App (2)

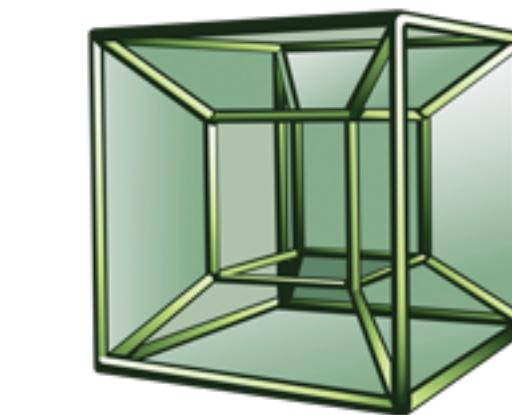
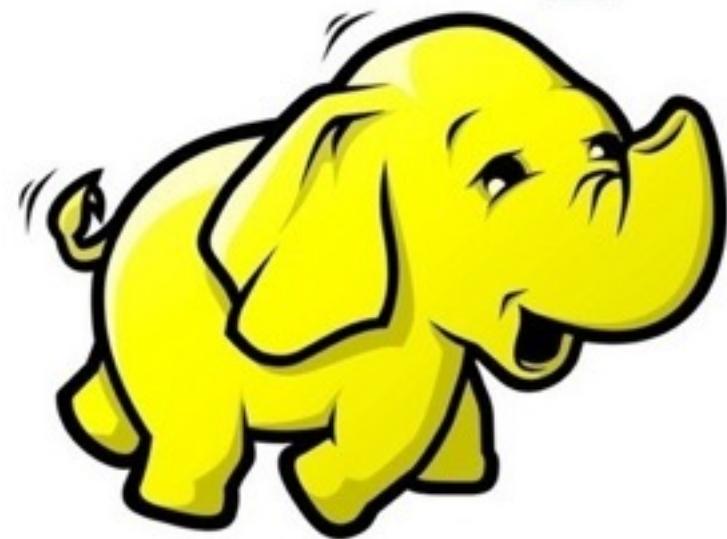
NoSQL

Not Only SQL

```
SELECT * FROM `transactions`;
```



hadoop



HYPERTABLE^{INC}



Cassandra

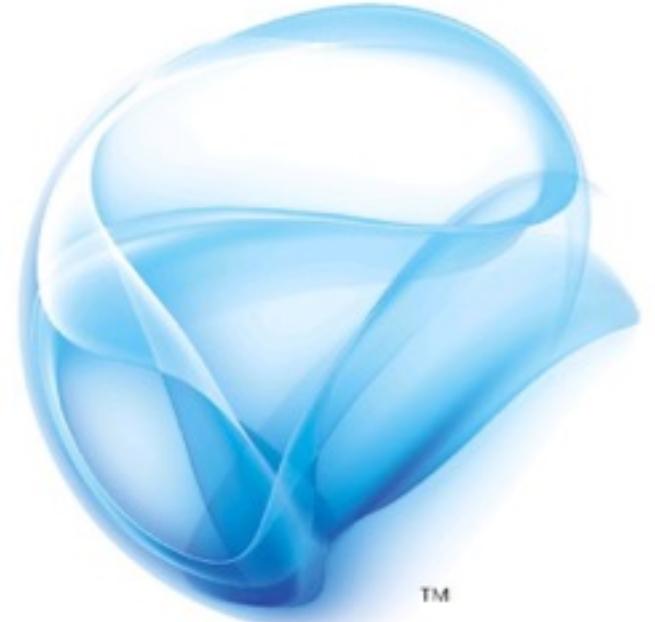


JavaScript Object Notation

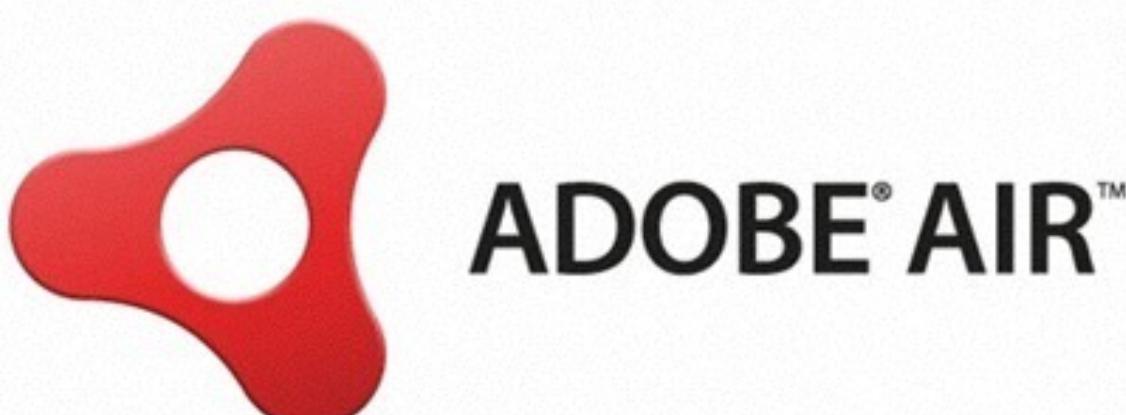
```
1  {
2      "pid": "RT1",
3      "items": [
4          {
5              "name": "Producten",
6              "pid": "productsId"
7          },
8          {
9              "name": "Nieuws en kennis",
10             "i18n": "sideMenu.groups.newsandknowledge",
11             "pid": "NAKId"
12         },
13         {
14             "name": "Service",
15             "pid": "B1",
16             "items": [
17                 {
18                     "name": "Zelf regelen",
19                     "pid": "B2"
20                 },
21                 {
22                     "name": "Feedback",
23                     "href": "https://www.rabobank.nl",
24                     "pid": "FEE"
25                 },
26                 {
27                     "name": "Over deze app",
28                     "pid": "ODA"
29                 }
30             ]
31         }
32     ]
33 }
```

Demo

JSON (3)



Microsoft®
Silverlight™





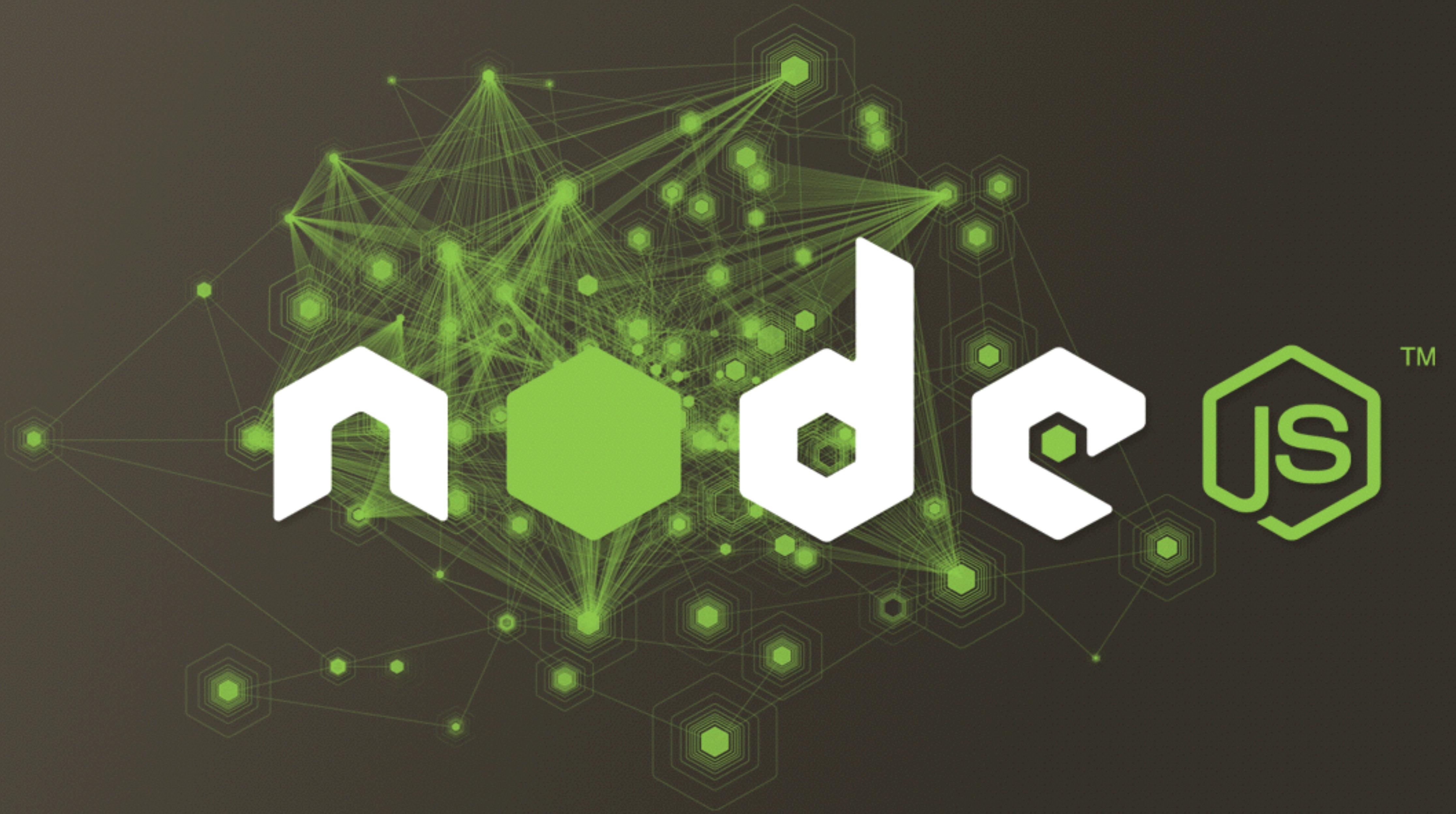
Think different.

HTML



Demo

Interaction (4)





Node Package Manager



YEOMAN GRUNT



BOWER

- Yeoman: Generators
- Grunt: Task manager
- Bower: Dependency manager

The Future

NEXT EXIT



EcmaScript 6

github.com/nzakas/UnderstandingES6

JavaScriptWeekly.com

ES6rocks.com





No Back-end

Demo

no back-end (5)

competा.демо123. nl

live demo

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