

JavaScript

Toen & Nu

2-10-2014: ymor.nl



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vpro



Rabobank



**JavaScript
Toen & Nu**

J S

1991 ~ Tim Berners-Lee



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

Demo

HTML (1)

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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Netscape Communications Corporation

1995 ~ Browser Wars



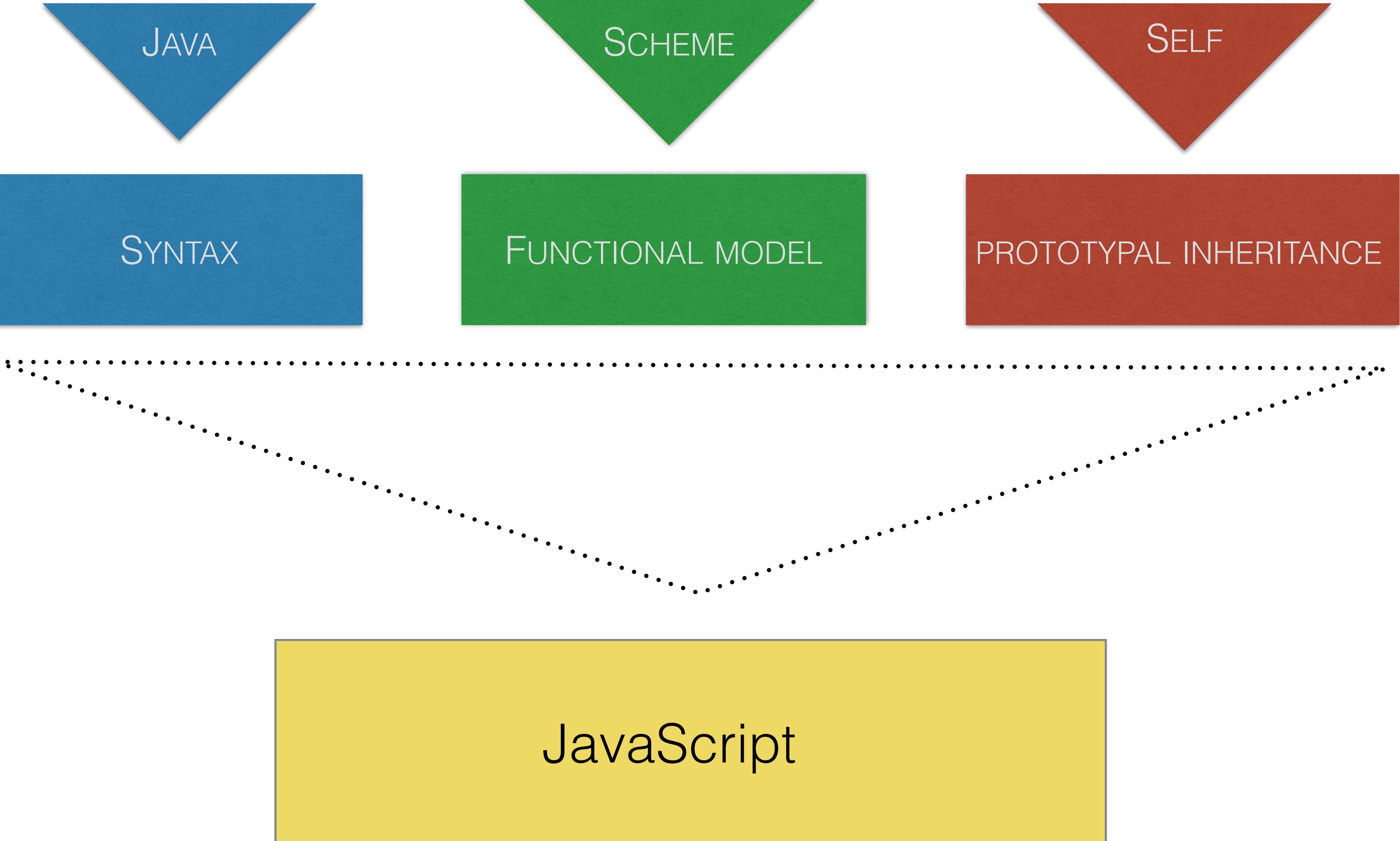
vs





JavaScript





JAVA

SCHEME

SELF

SYNTAX

FUNCTIONAL MODEL

PROTOTYPAL INHERITANCE

~~JavaScript~~
Mocha

JAVA

SCHEME

SELF

SYNTAX

FUNCTIONAL MODEL

PROTOTYPAL INHERITANCE

~~JavaScript~~
~~Mocha~~
LiveScript

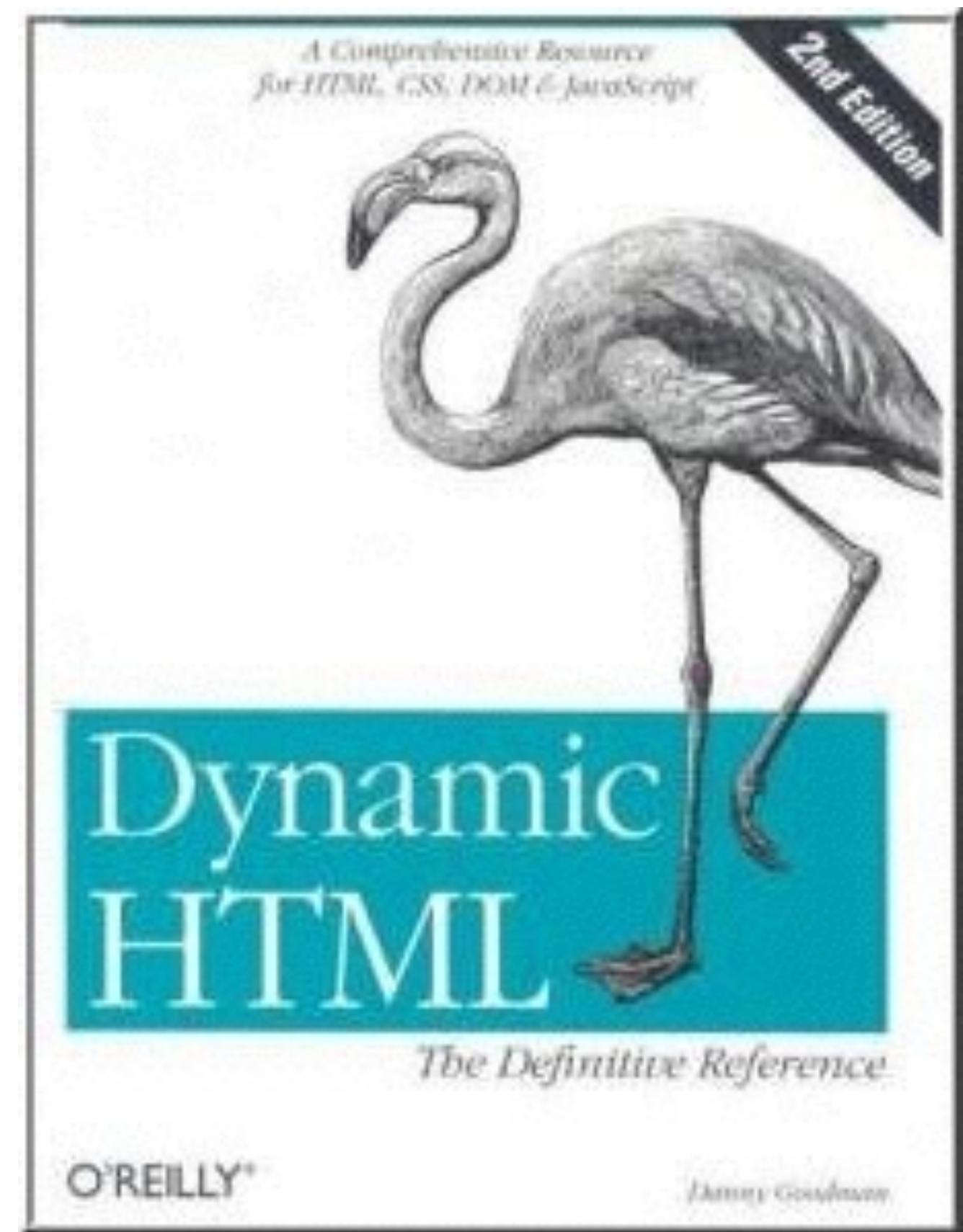


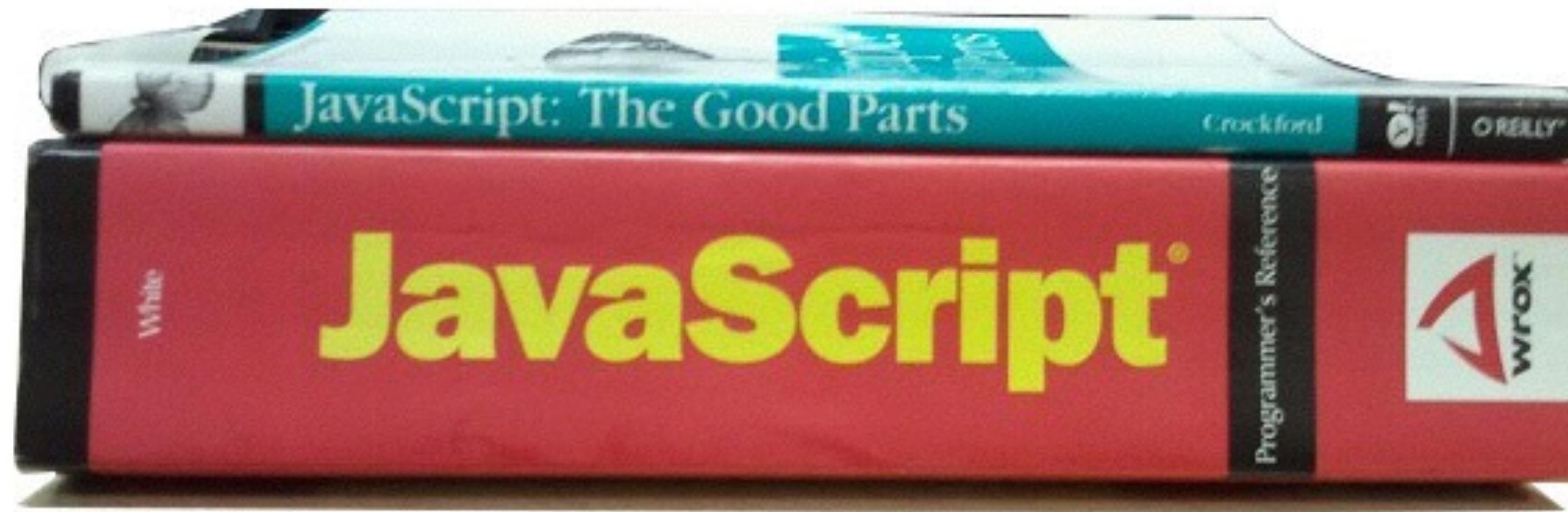
JavaScript === JScript === ECMAScript

HOW STANDARDS PROLIFERATE:



source: xkcd.com/927









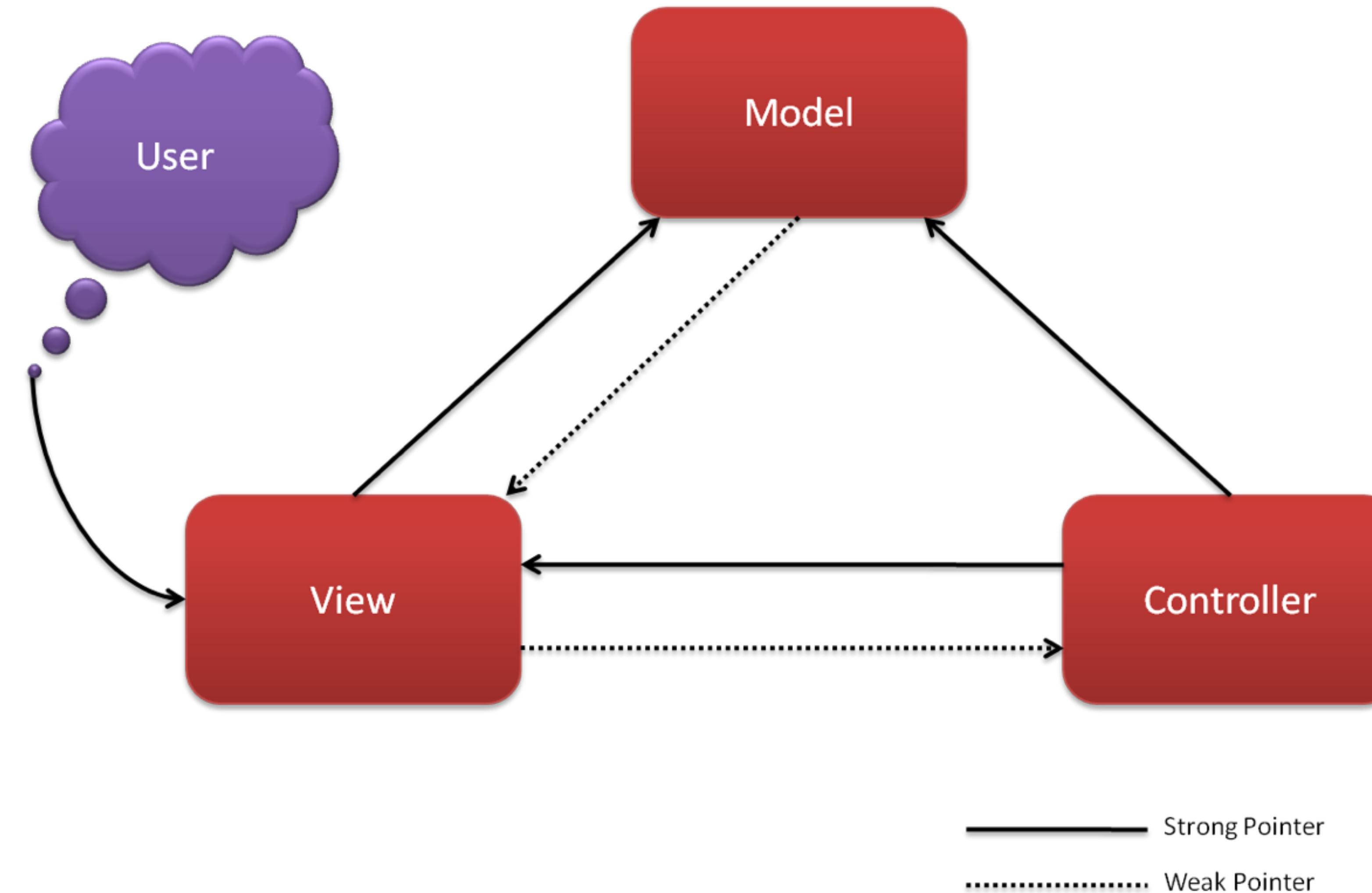
prototype

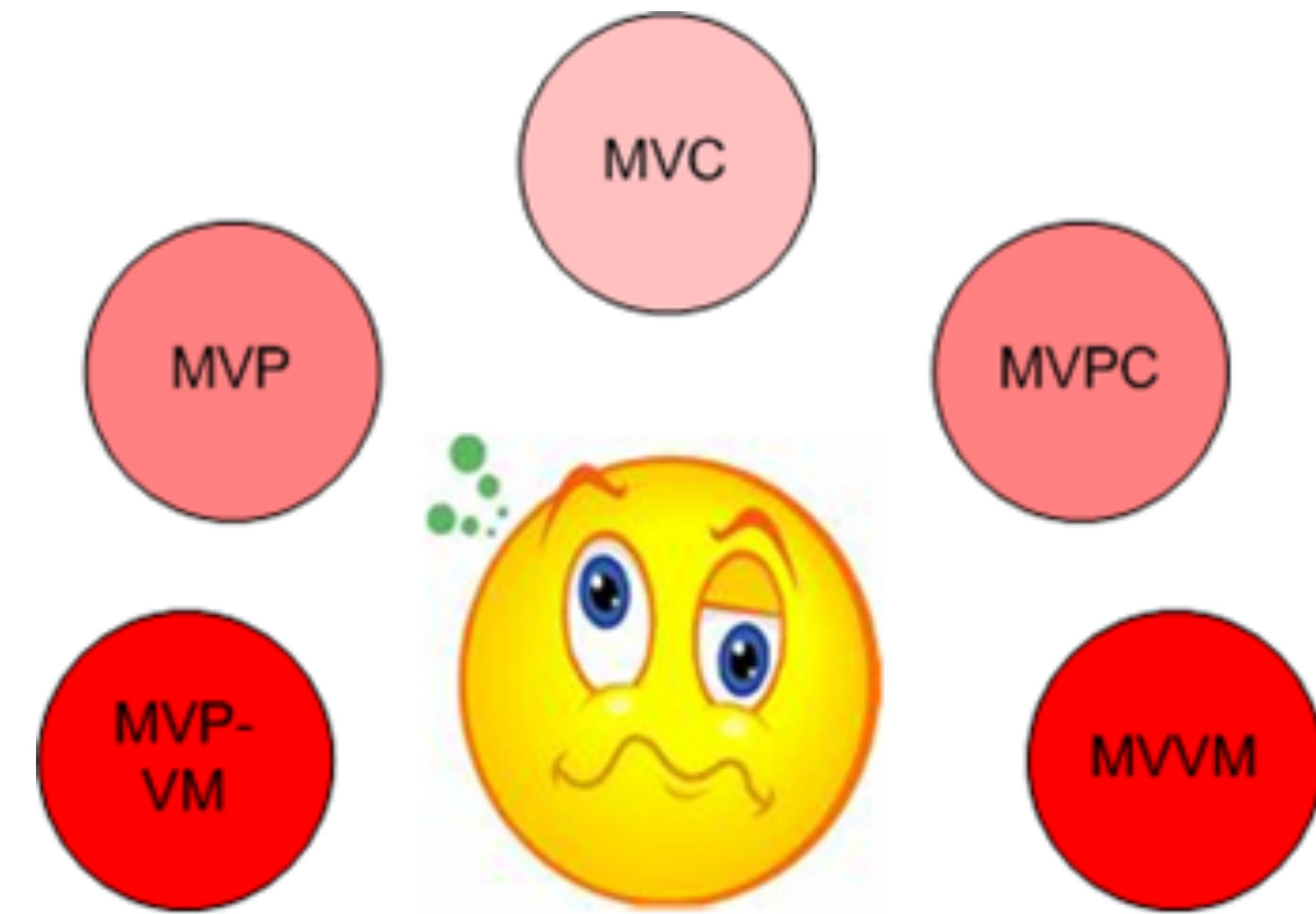




Library vs Framework

MVC ~ Model View Controller





MV*

MVW

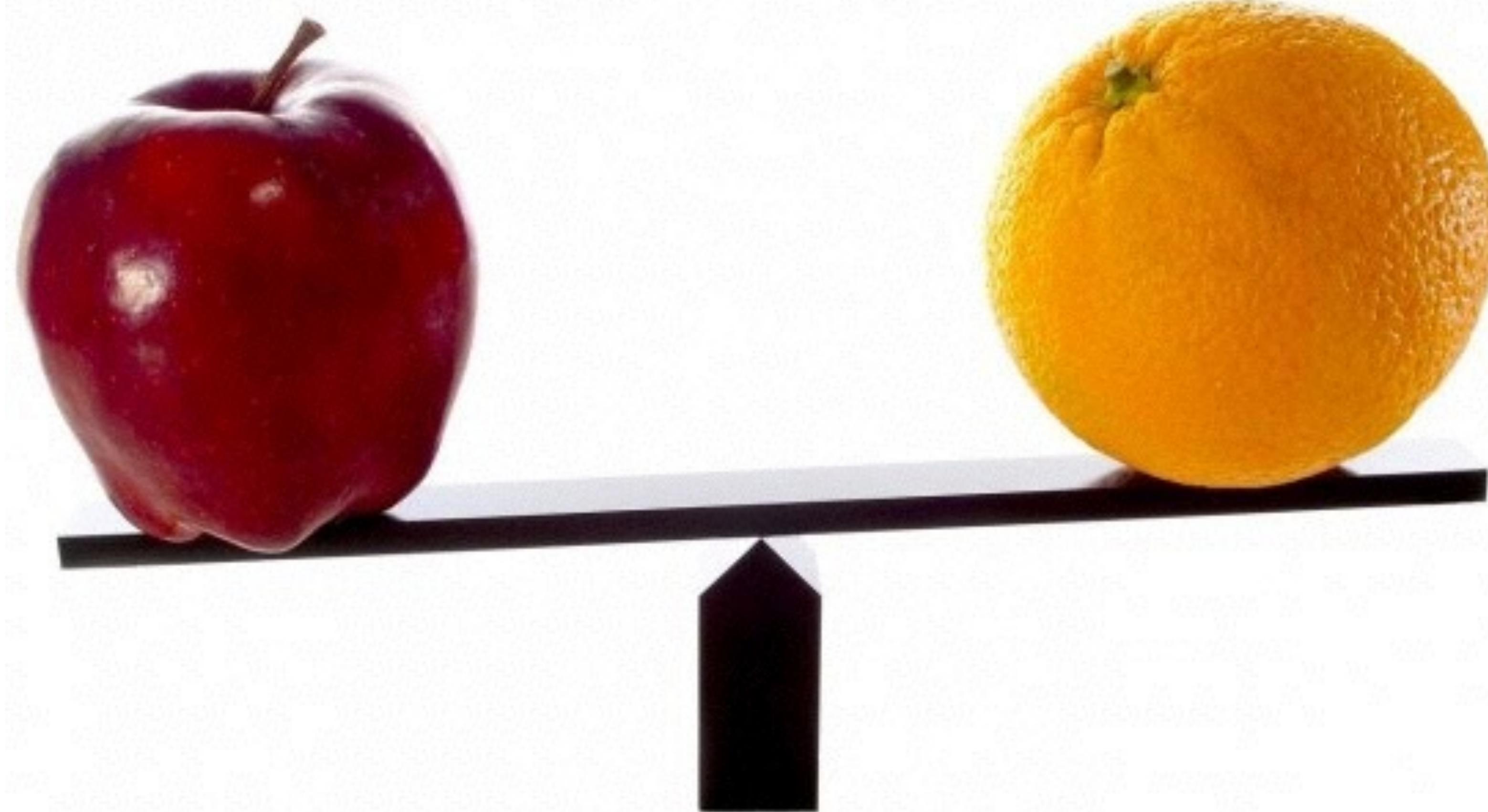
Model View *Whatever*

Knockout.

 BACKBONE.JS



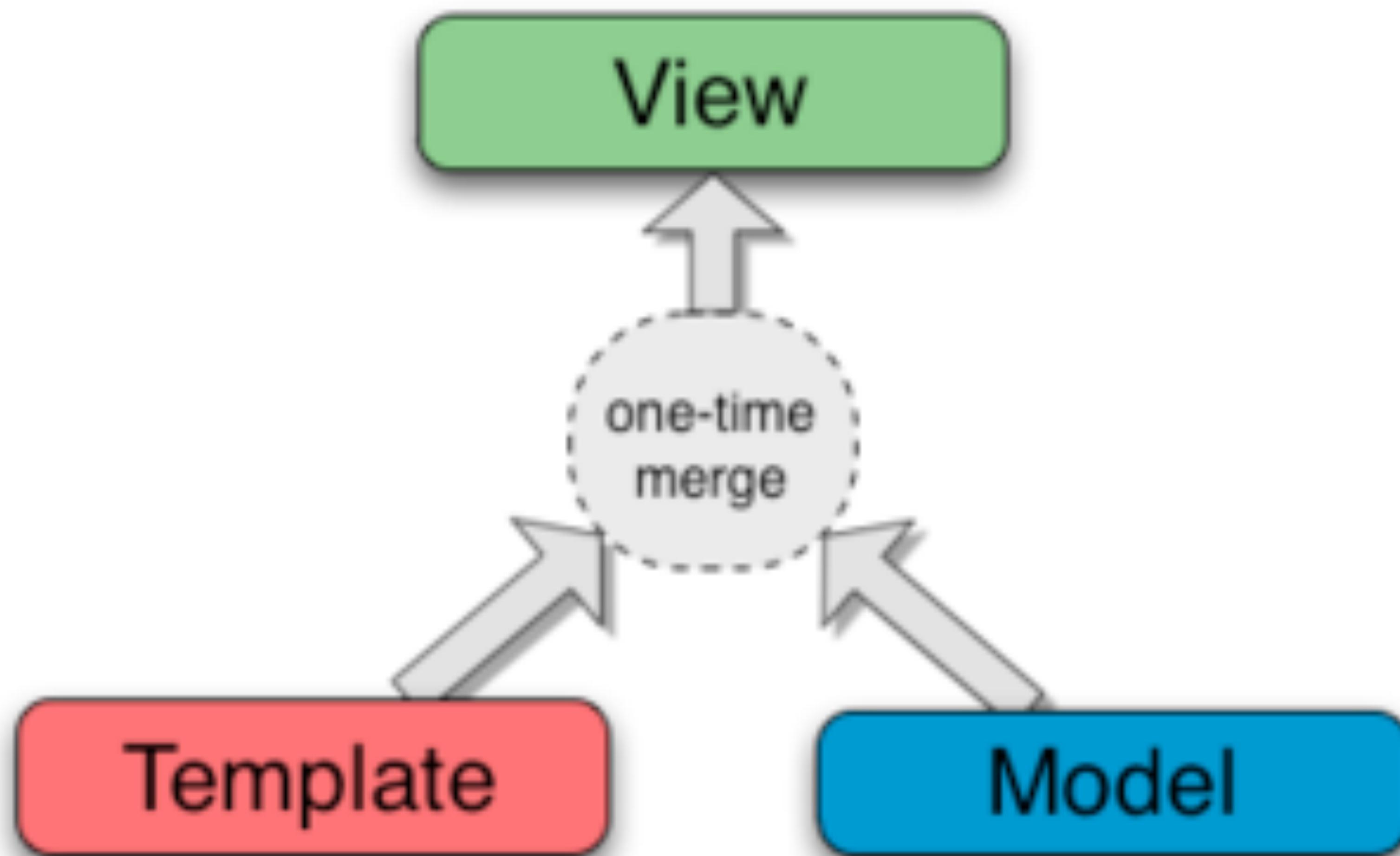
 **ANGULARJS**
by Google



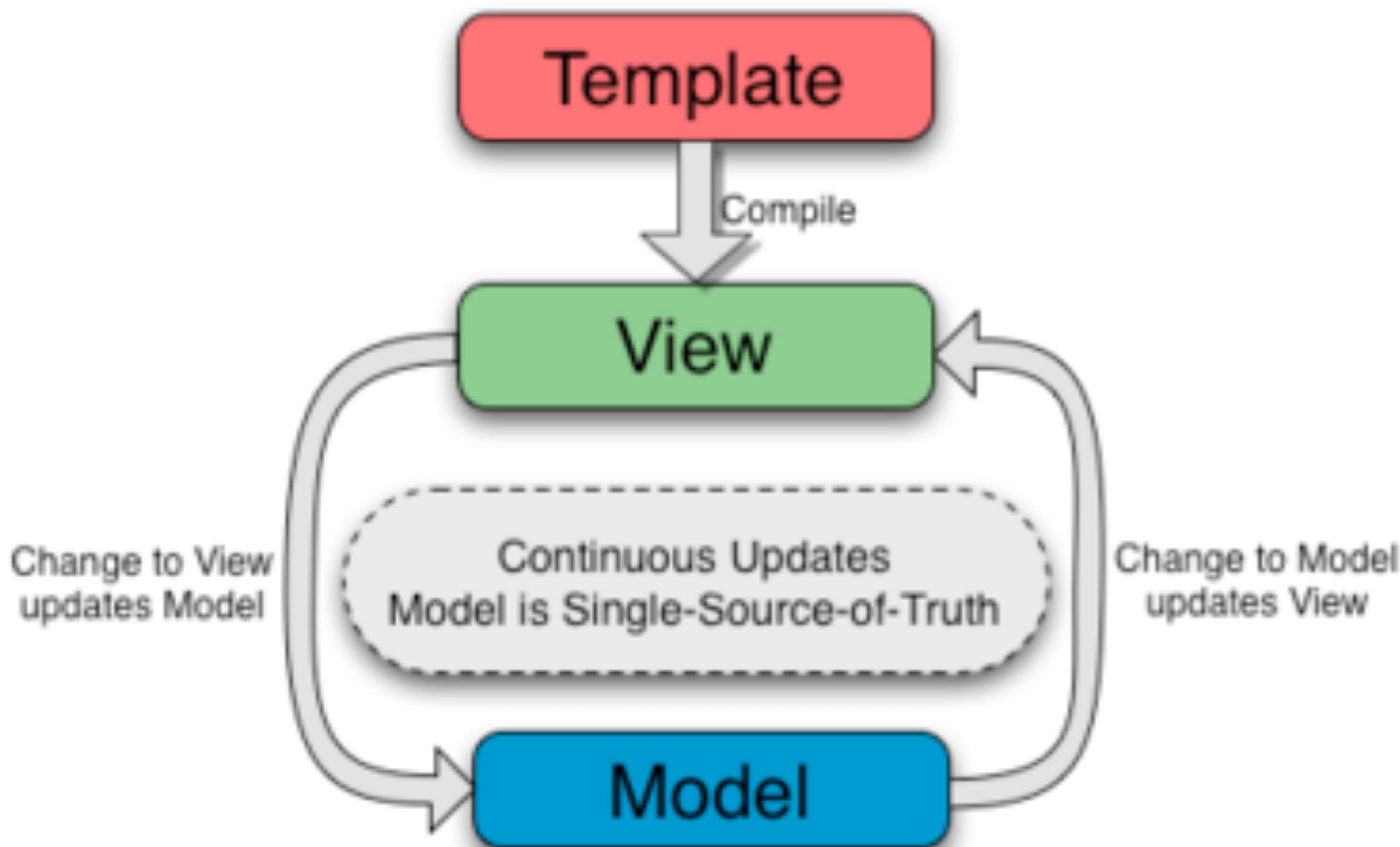
Data binding

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

One-Way Data Binding



Two-Way Data Binding



Demo

Two-way data binding (2)

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	✓	✓

Demo

Large scope (angular.html)

jsperf.com



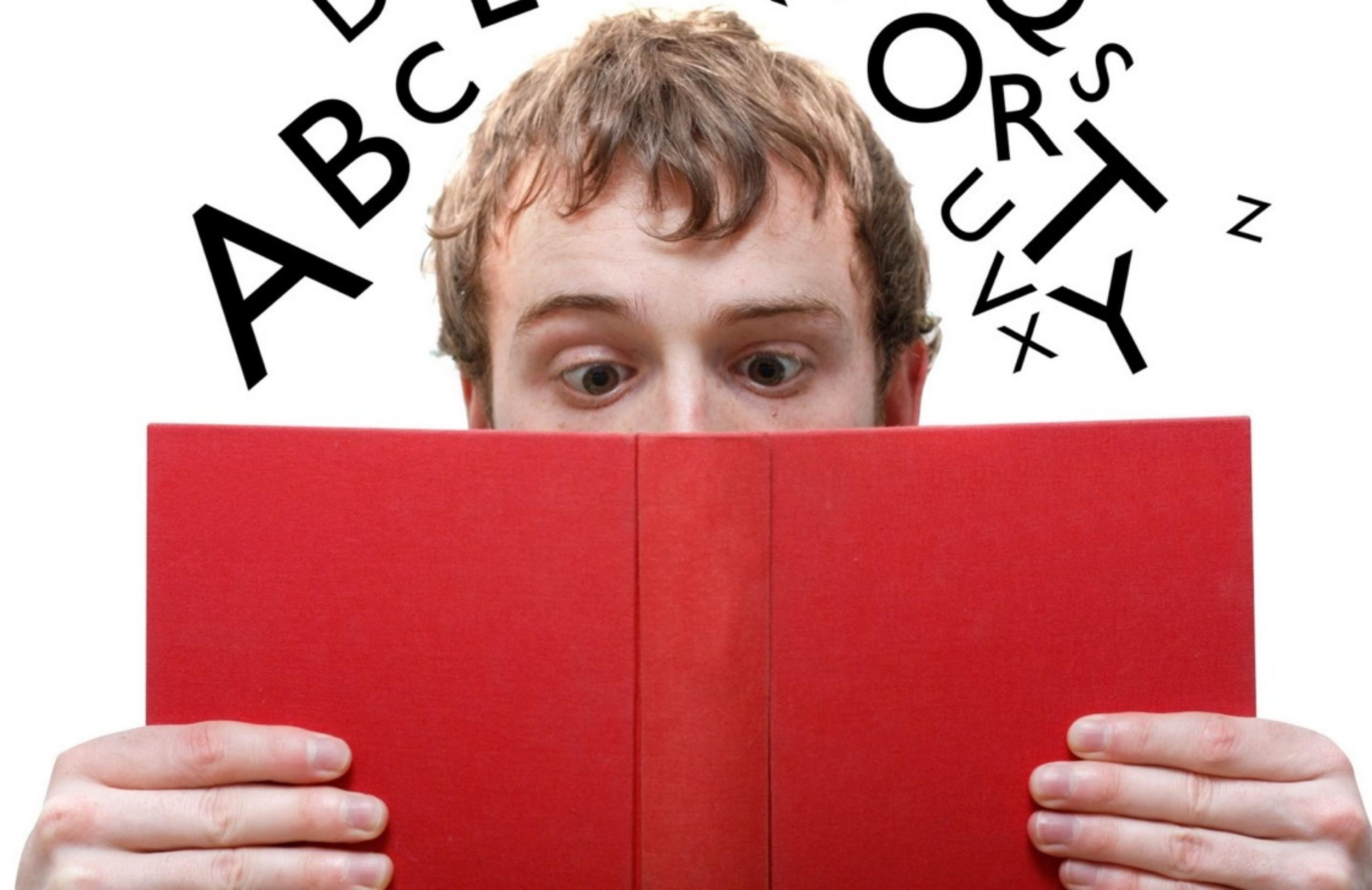


File size

	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

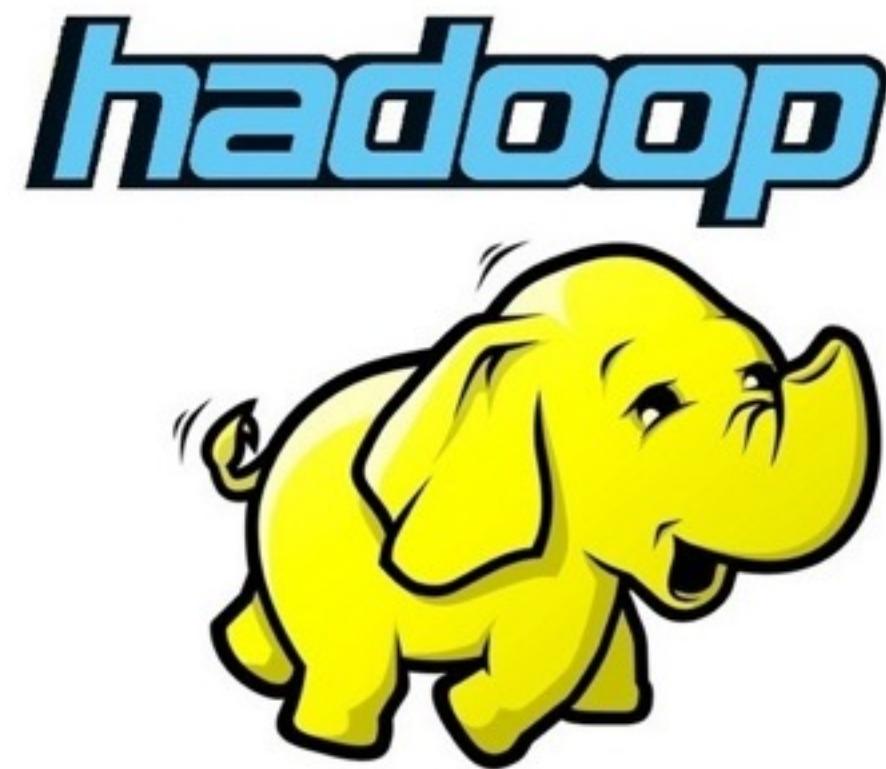
Demo

Angular App (3)

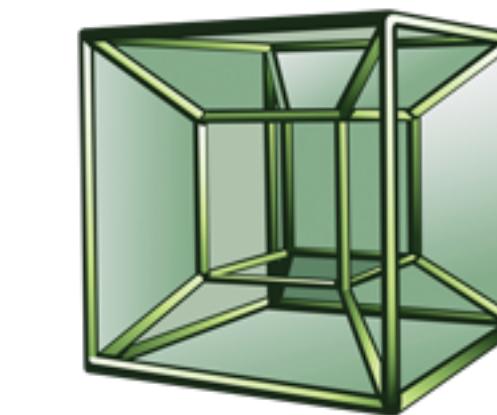
NoSQL

Not Only SQL

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



Cassandra



HYPERTABLE^{INC}

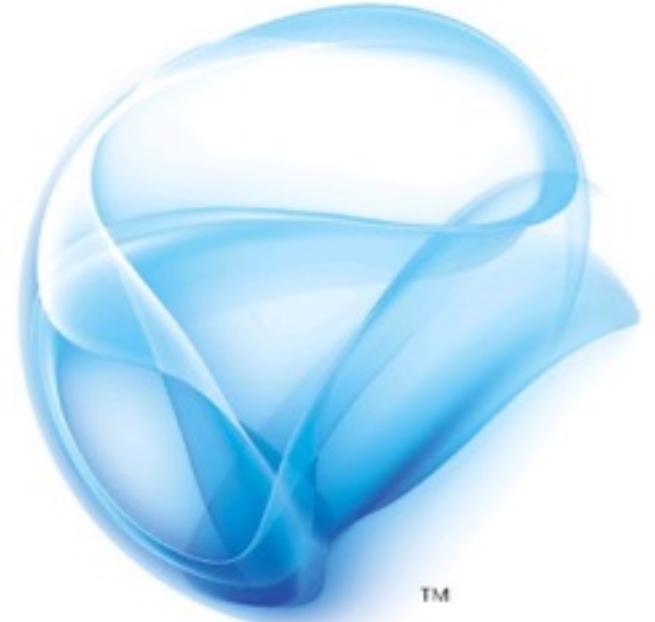


JavaScript Object Notation

```
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 (4)



Microsoft®
Silverlight™





Think different.

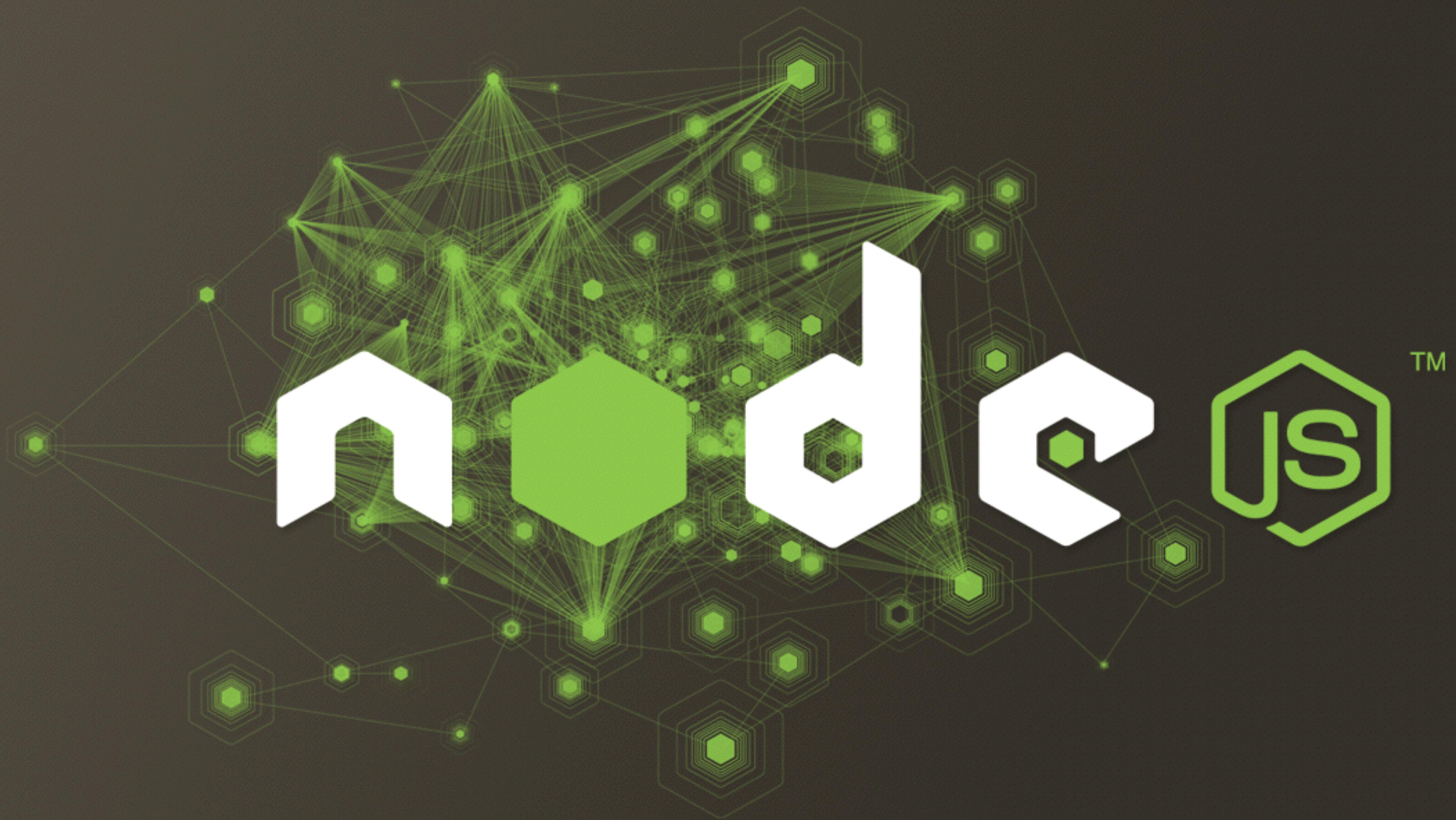


HTML



Demo

Interaction (5)



TM



Node Package Manager





YEOMAN GRUNT



BOWER

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

The Future

NEXT EXIT





No Back-end

Demo

no back-end (6)

ymor.demo123.nl

live demo

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