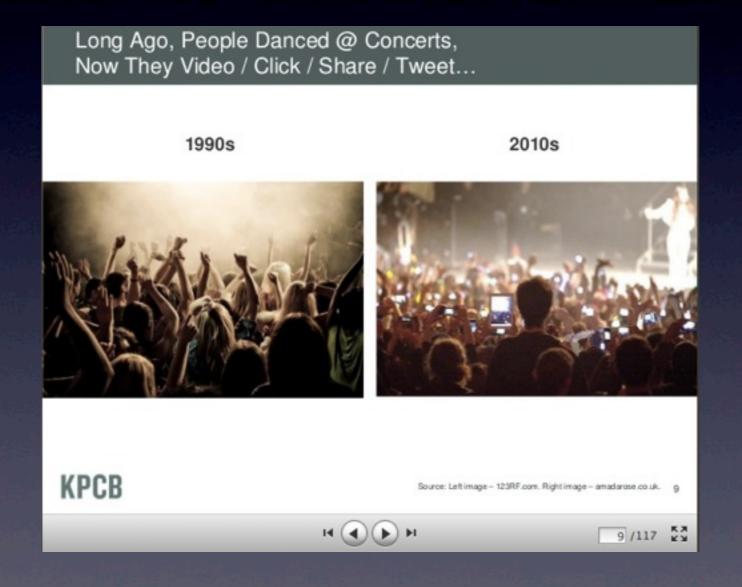
A Trip to the New WWW

with Chicago Boss

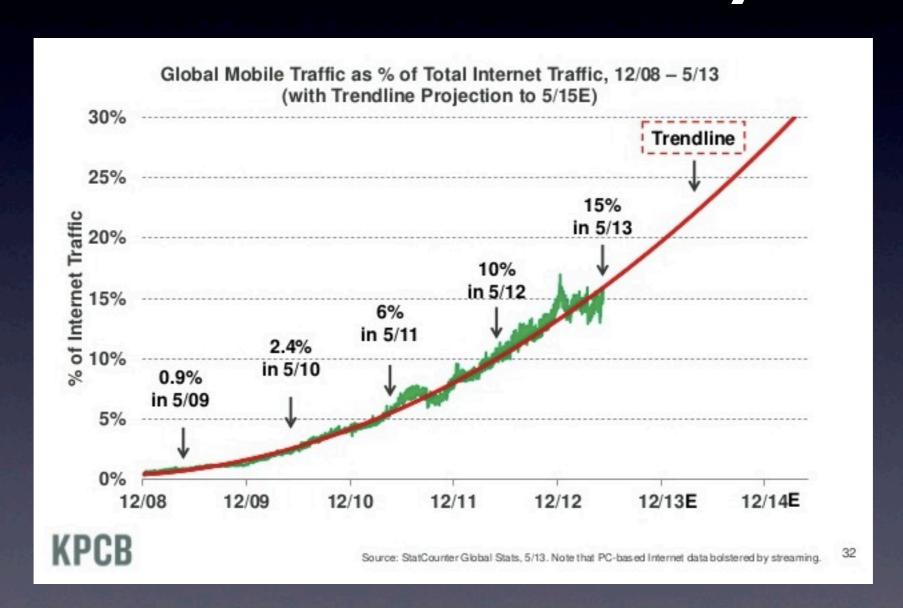
Who?

- Berner Setterwall
- Works at Campanja
- Do ad click optimization for profit
- Customers such as: Netflix

Macro trends on internet today



Macro trends on internet today



Macro trends on internet today

- Mobile ..
- Mobile first?
- Speed!

CSS Frameworks -Responsive for free



Need reasons to love Bootstrap? Look no further.





By nerds, for nerds.

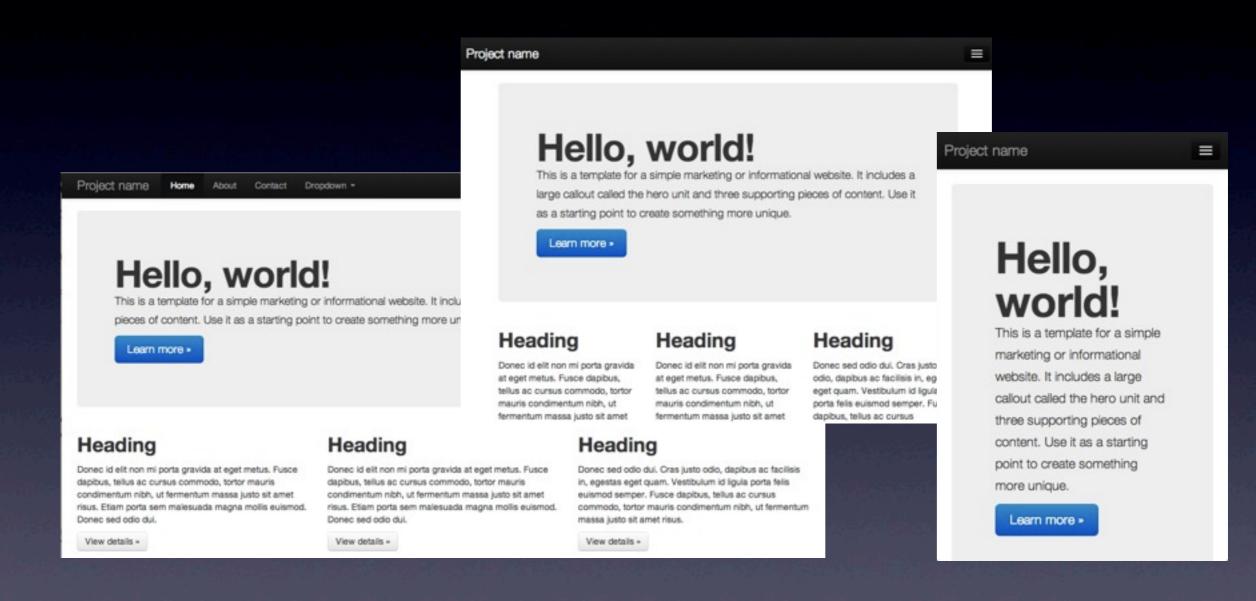


Made for everyone.



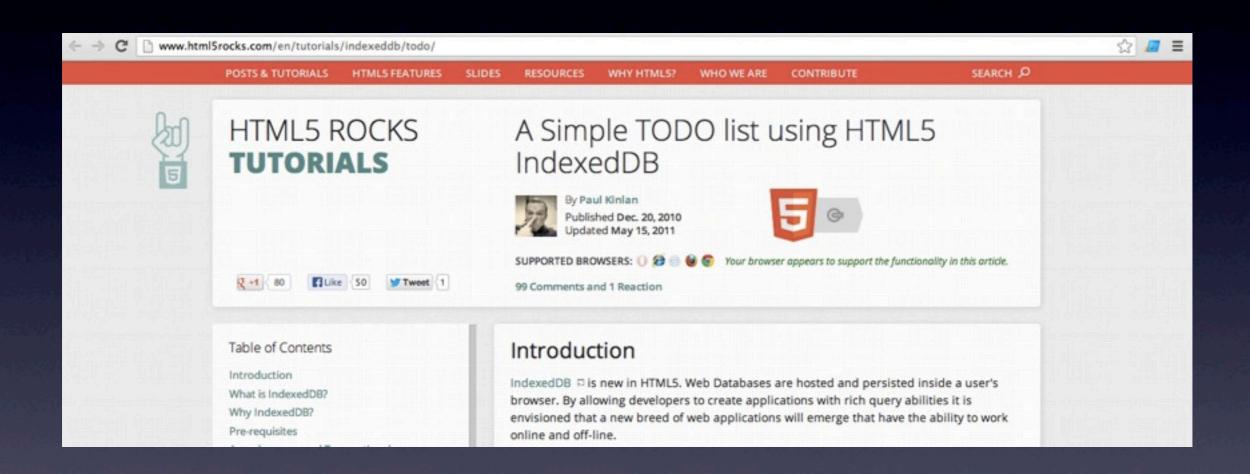
Packed with features.

Bootstrap examples

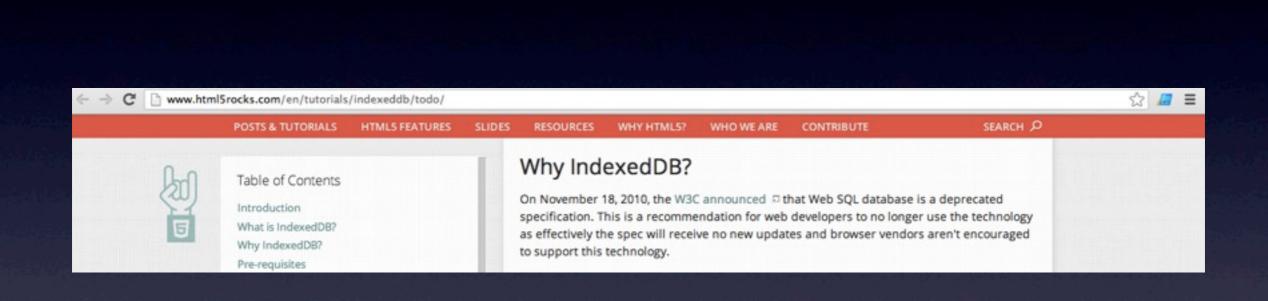




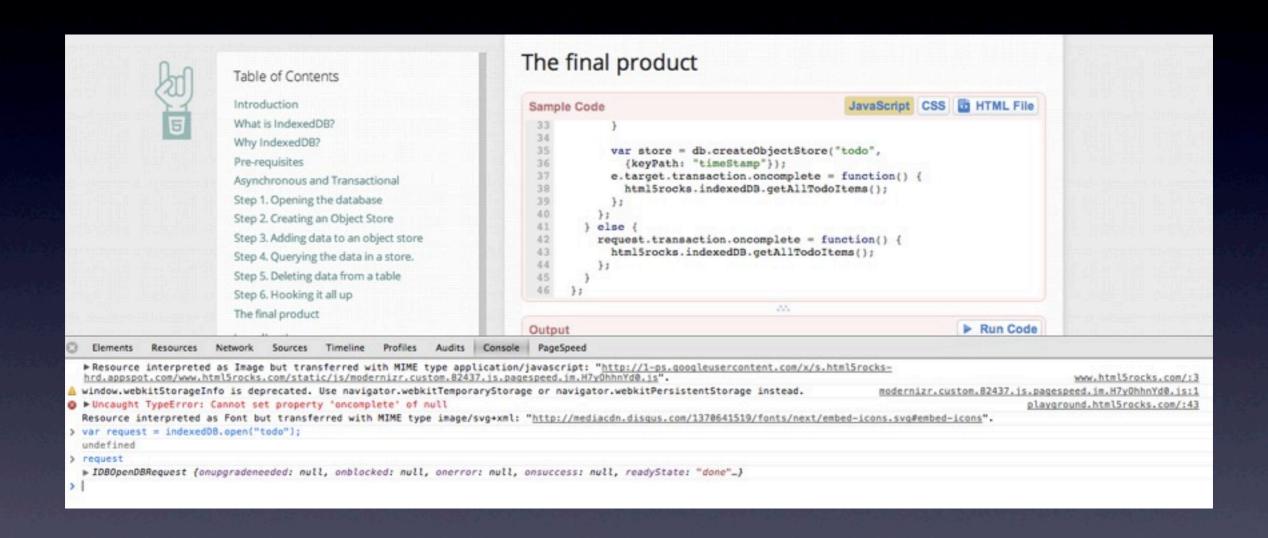
HTML5 ROCKS



HTML5 ROCKS



HTML5 ROCKS



spawn in the browser?



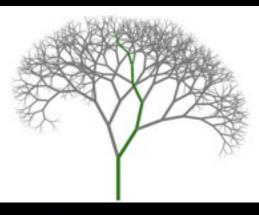
generators + promises = tasks

task.js is an experimental library for ES6 that makes sequential, blocking I/O simple and beautiful, using the power of JavaScript's new yield operator.

Tasks are interleaved like threads, but they are **cooperative** rather than **pre-emptive**: they block on **promises** with yield. Here's an example using **jQuery**:

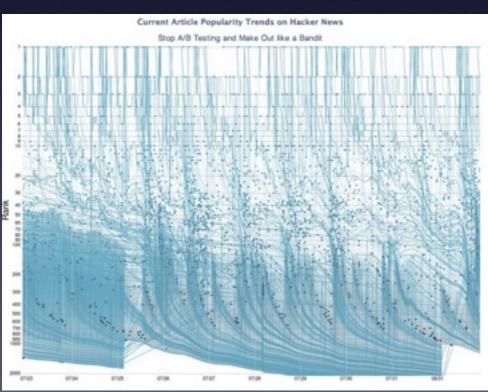
```
spawn(function*() {
   var data = yield $.ajax(url);
   $('#result').html(data);
   var status = $('#status').html('Download complete.');
   yield status.fadeIn().promise();
   yield sleep(2000);
   status.fadeOut();
});
```

task.js works with any framework or library that uses the Promises/A spec.

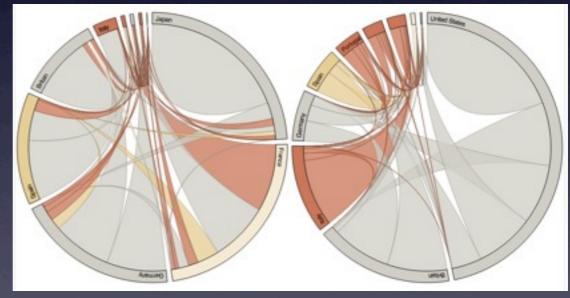


Canvas / WebGL

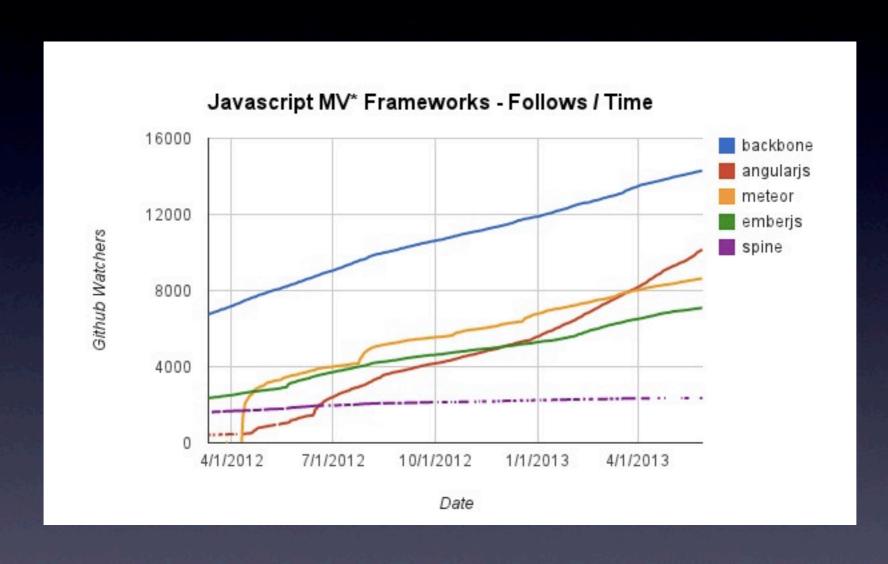




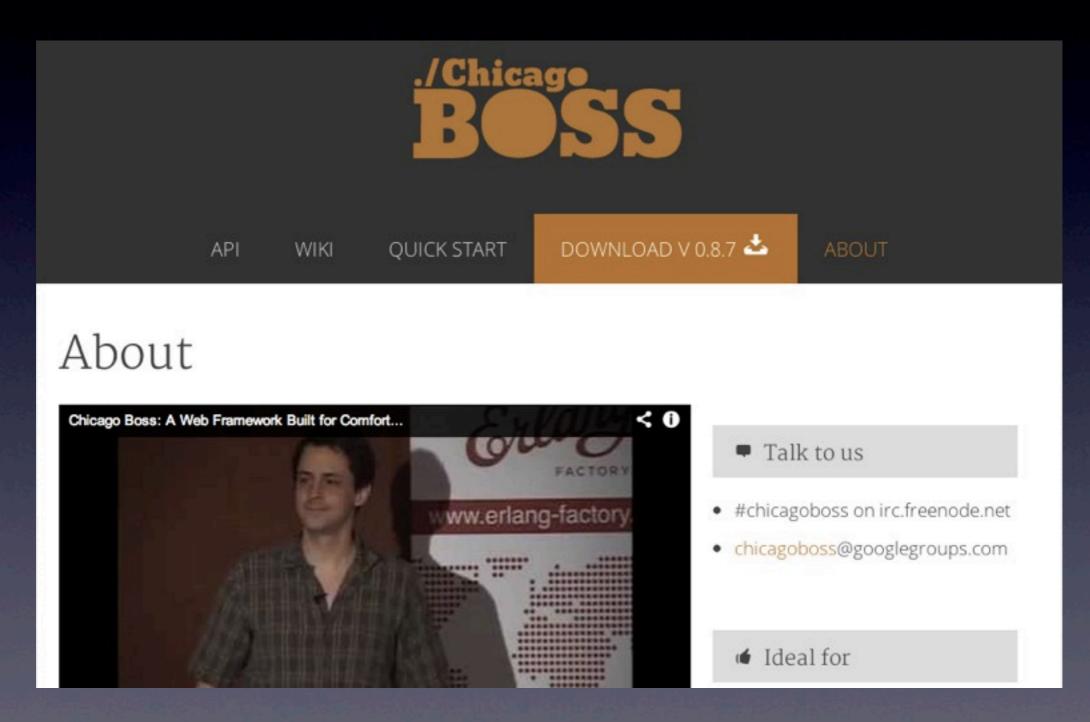




Growth of AngularJS



Enter Chicago Boss



Promises to: designers

- Easy server—side templates
- Familiar Rails conventions
- Painless Javascript integration
- Easy JSON generation
- Django & Jade template support

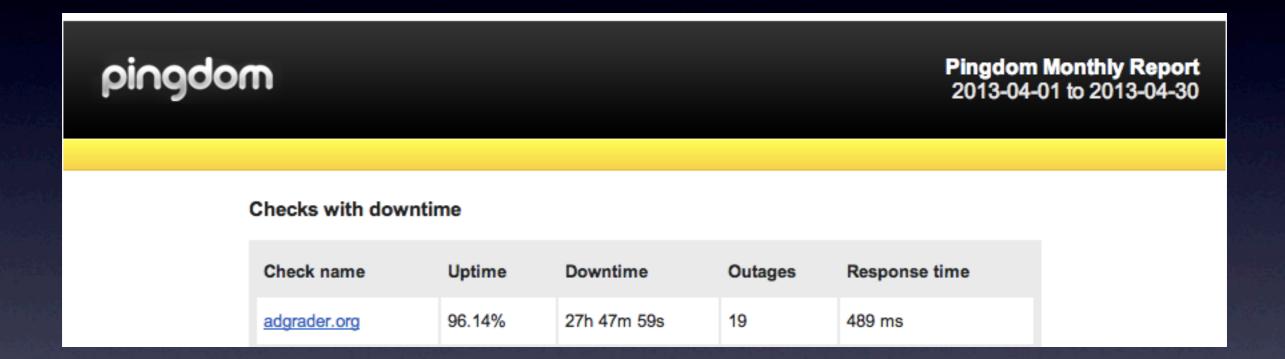
Promises to: developers

- 100% asynchronous I/O
- WebSocket & long-poll support
- No nested callbacks
- Language—integrated query syntax
- Fast, in-memory functional tests
- Support for Erlang and Elixir code

Promises to: admins

- Low RAM and CPU usage
- Cluster-wide, channel-based message queue
- Supports SQL and NoSQL databases
- Fast garbage collection
- Built-in email server

Does it deliver?



Does it deliver?



Pingdom Monthly Report 2013-05-01 to 2013-05-31

Checks with downtime

Check name	Uptime	Downtime	Outages	Response time
adgrader.org	99.87%	0h 56m 59s	5	591 ms

Rough edges: MySQL driver

```
diff -bur ChicagoBoss-0.8.5/deps/boss_db/src/db_adapters/boss_db_adapter_mysql.erl ChicagoBoss-0.8.7/deps/boss_db/src/db_adapters/boss_db_adapter_mysql.erl
--- ChicagoBoss-0.8.5/deps/boss_db/src/db_adapters/boss_db_adapter_mysql.erl
                                                                                 2013-04-13 11:28:32.000000000 +0200
+++ ChicagoBoss-0.8.7/deps/boss_db/src/db_adapters/boss_db_adapter_mysql.erl
                                                                                 2013-06-05 21:19:59.000000000 +0200
@@ -403,17 +403,12 @@
     pack_value(Min) ++ " AND " ++ pack_value(Max).
 escape_sql(Value) ->
     %%escape_sql1(Value, □).
     99% probably more safe ...
     mysql:encode(Value).
     escape_sql1(Value, []).
ee -432,7 +427,7 ee
 pack_value(V) when is_binary(V) ->
     pack_value(binary_to_list(V));
 pack_value(V) when is_list(V) ->
     escape_sql(V);
     "'" ++ escape_sql(V) ++ "'";
 pack_value({_, _, _} = Val) ->
    pack_date(Val);
pack_value({{_, _, _}}, {_, _, _}} = Val) ->
```

Rough edges: old deps

```
foobook:ChicagoBoss-0.8.5 berset$ grep 'kill' -r deps/poolboy | grep -v test

Binary file deps/poolboy/ebin/poolboy.beam matches

Binary file deps/poolboy/ebin/poolboy_sup.beam matches

deps/poolboy/src/poolboy.erl: exit(Pid, kill),

deps/poolboy/src/poolboy_sup.erl: temporary, brutal_kill, worker, [Mod]}]}.

foobook:ChicagoBoss-0.8.5 berset$ grep 'kill' -r 'deps/poolboy HEAD' | grep -v test

foobook:ChicagoBoss-0.8.5 berset$
```

Rough edges: Documentation

3. Implementing real-time updates with save hooks

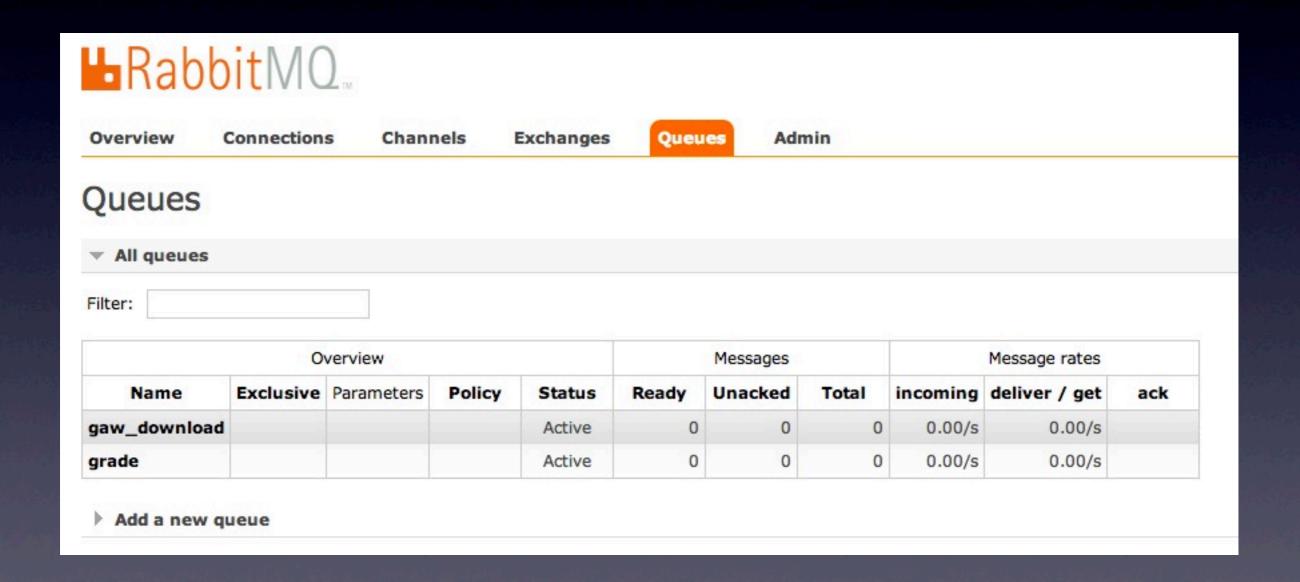
First, open up src/model/greeting.erl and add the following save hook:

```
after_create() ->
   boss_mq:push("new-greetings", THIS).
```

list to integer (LastTimestamp)),

{json, [{timestamp, Timestamp}, {greetings, Greetings}]}.

Rough edges: Think like a Rails coder



Does it solve the right problem?

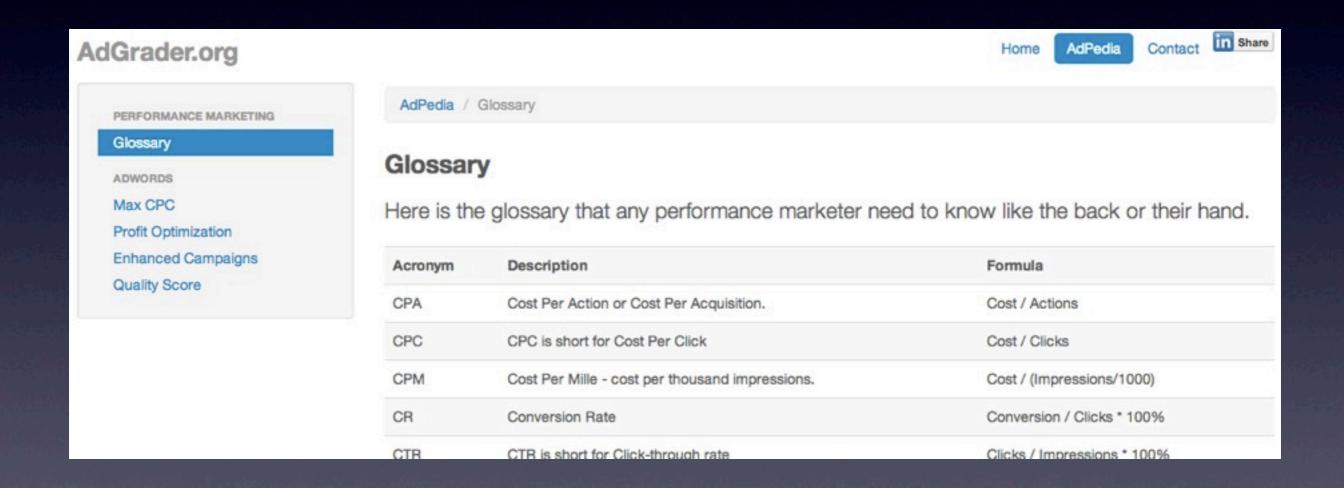
Playing with angular.js

• {{ bracket.conflict }}

```
angular.module('scoring', [])
    .config(['$interpolateProvider', function($interpolateProvider) {
          $interpolateProvider.startSymbol('[[').endSymbol(']]');
}])
```

- Templates: Server-side, client-side or both?
- JSON end points very nice

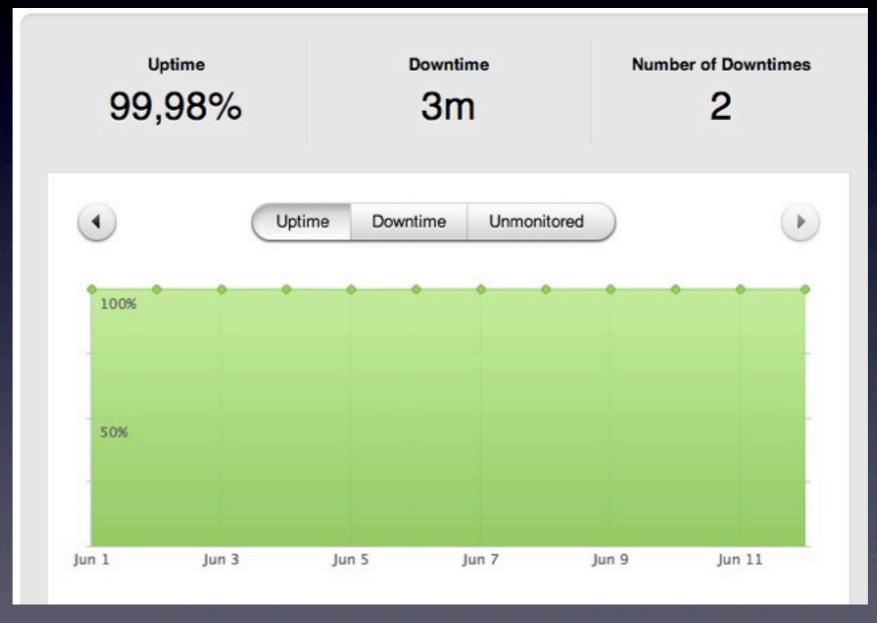
Server side templating good for SEO =)



Long-polling?

vs websockets?

WWW still the place for plain cowboys?



Thank you! Questions?