Mojito

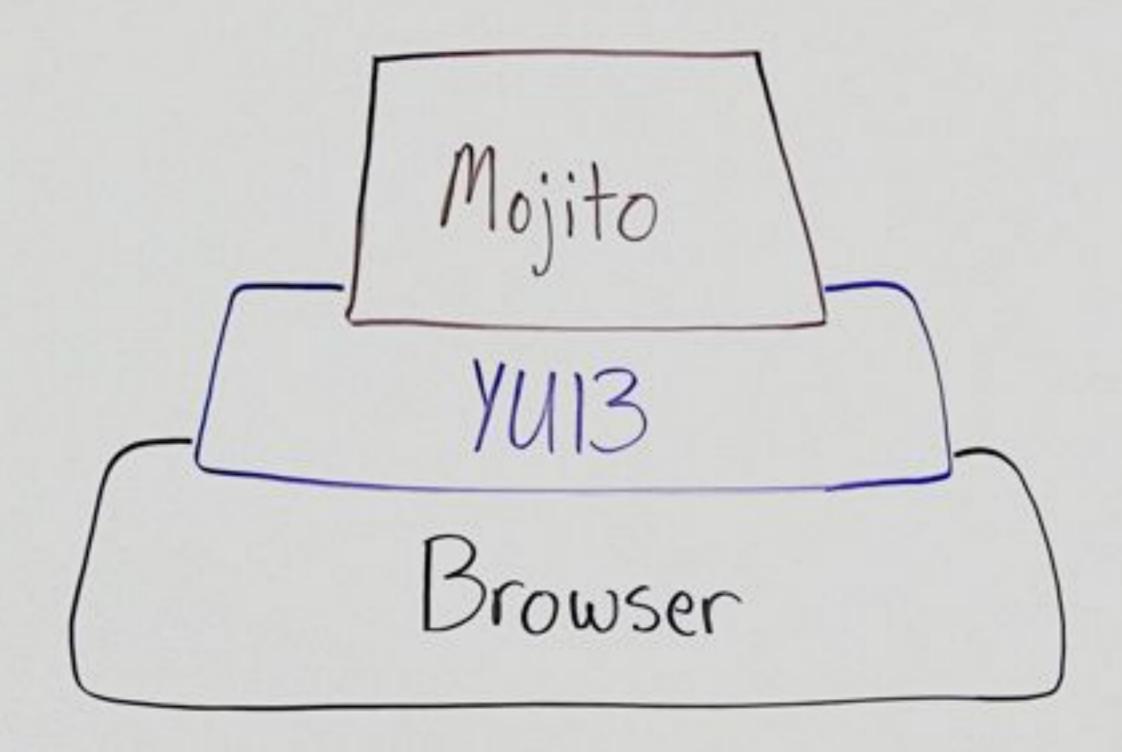
A Tale of Two

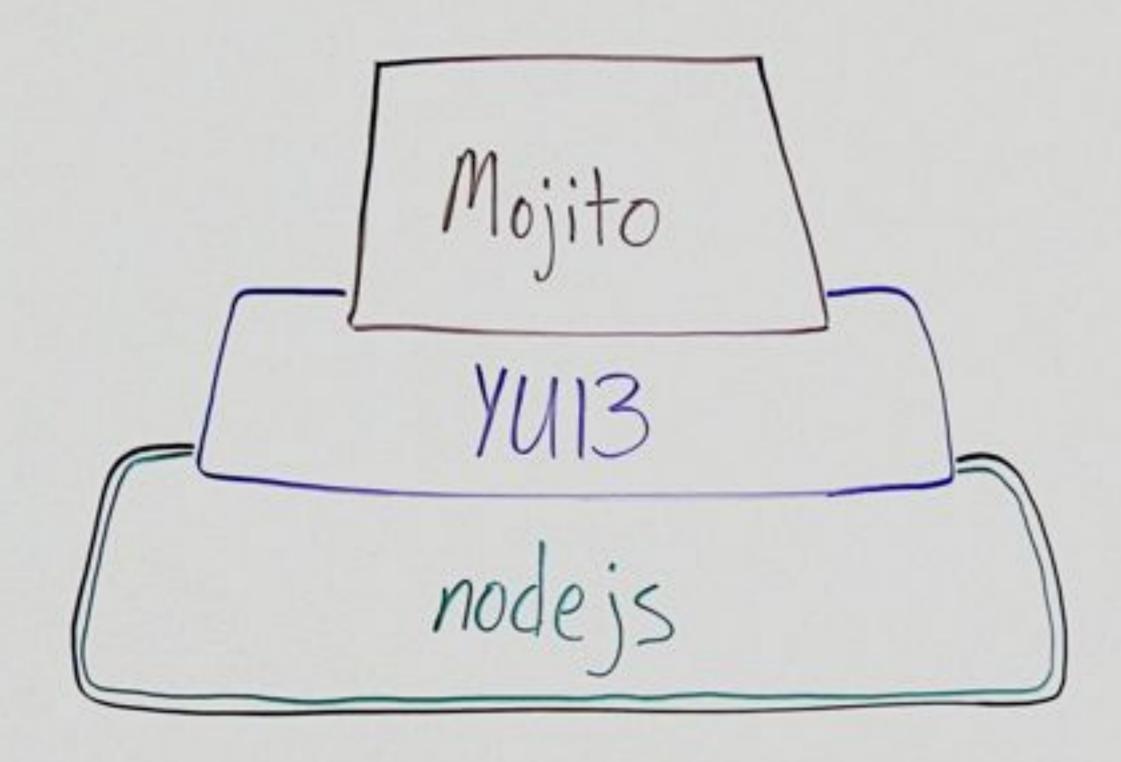
Runtimes

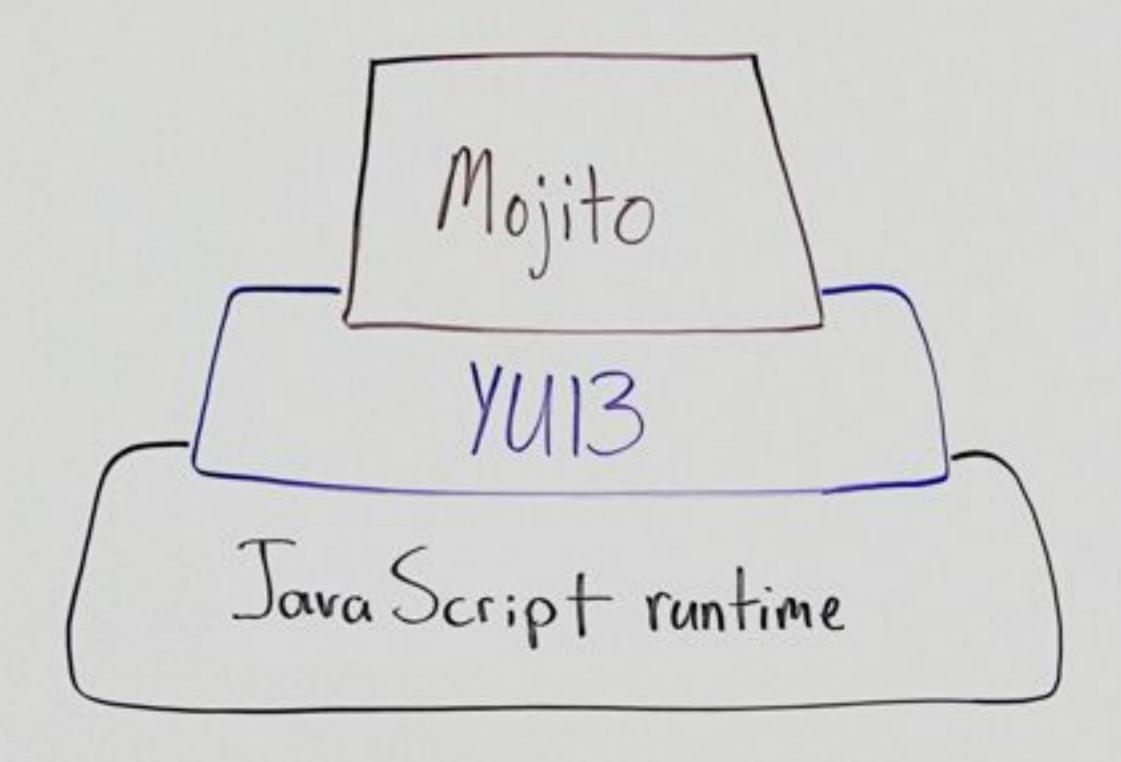
@rhyolight

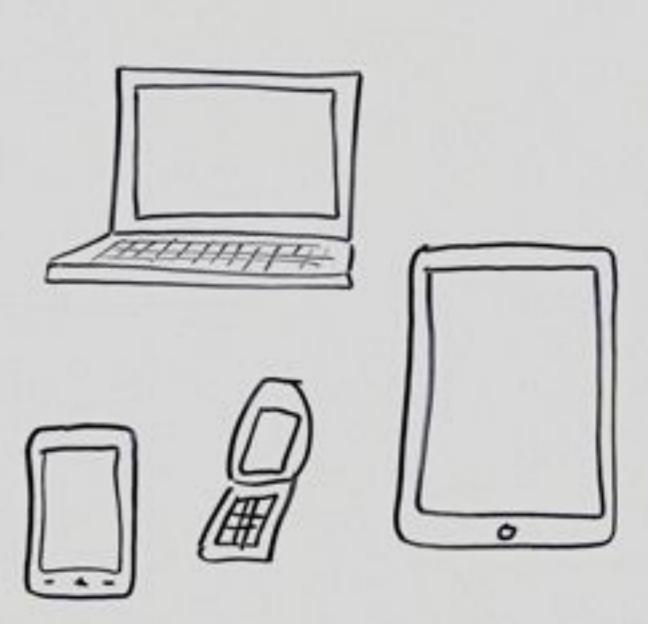
Matthew Taylor YAHOO!

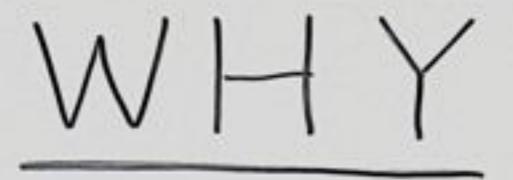
Mojito is a Web Application Framework 100% Java Script \* Client + Server A Presentation-Centric



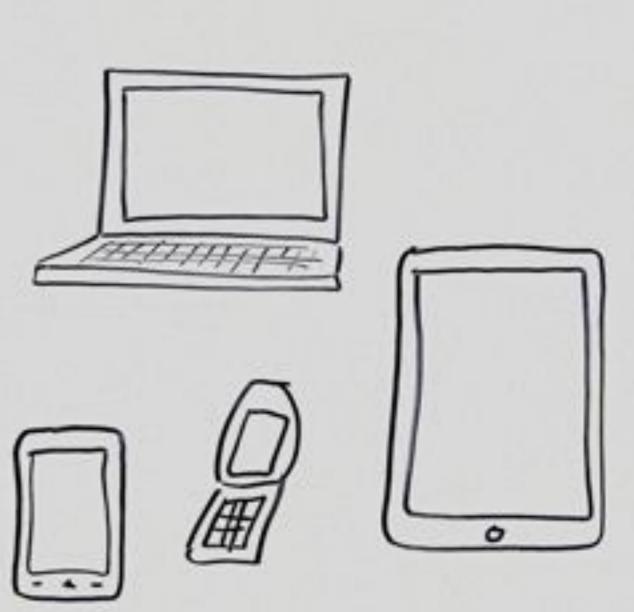




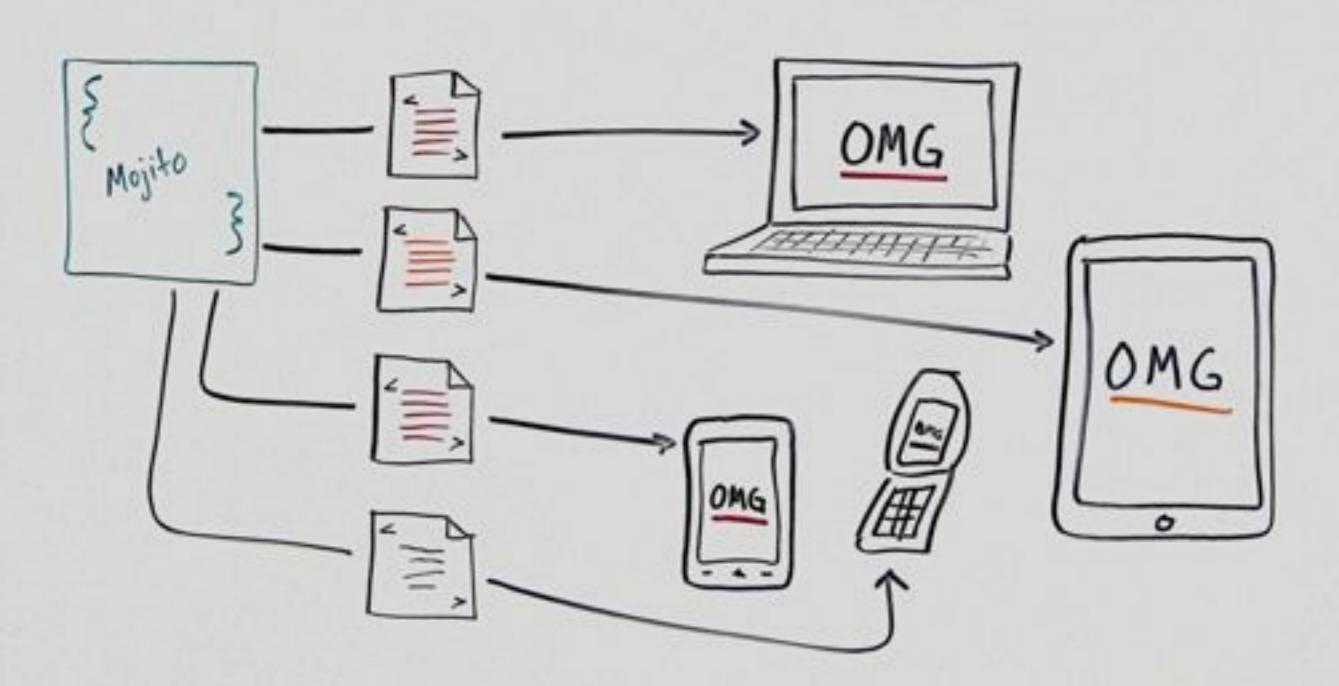


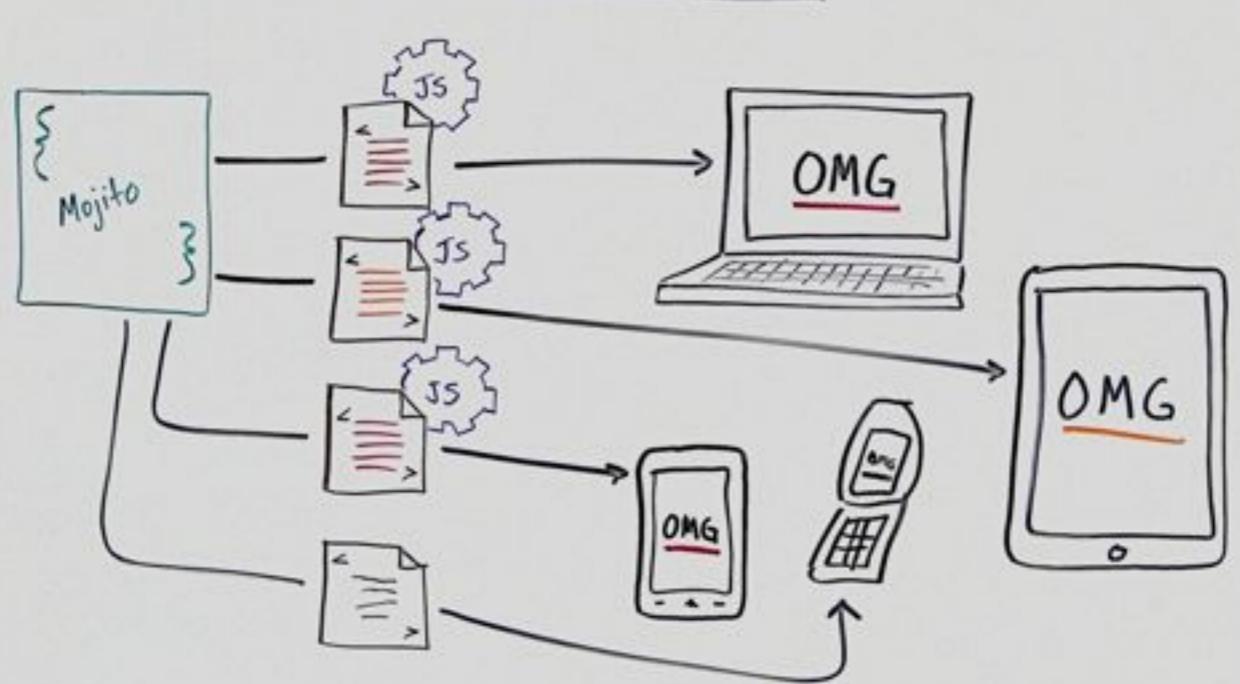


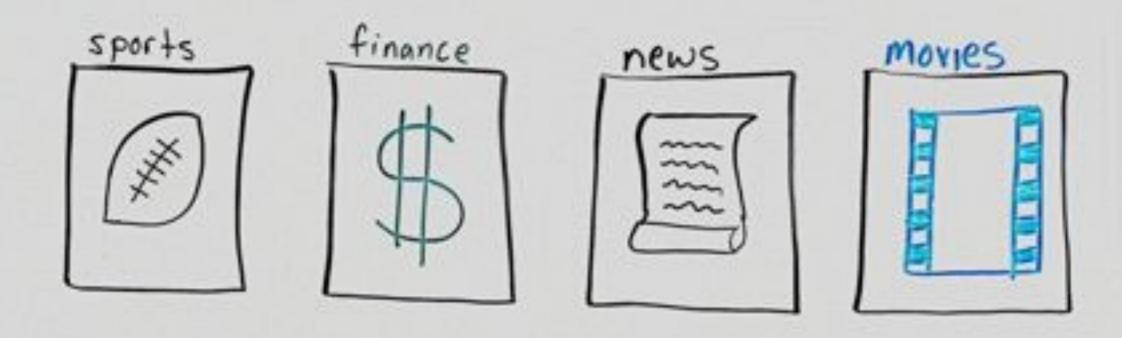
& Mojito 3

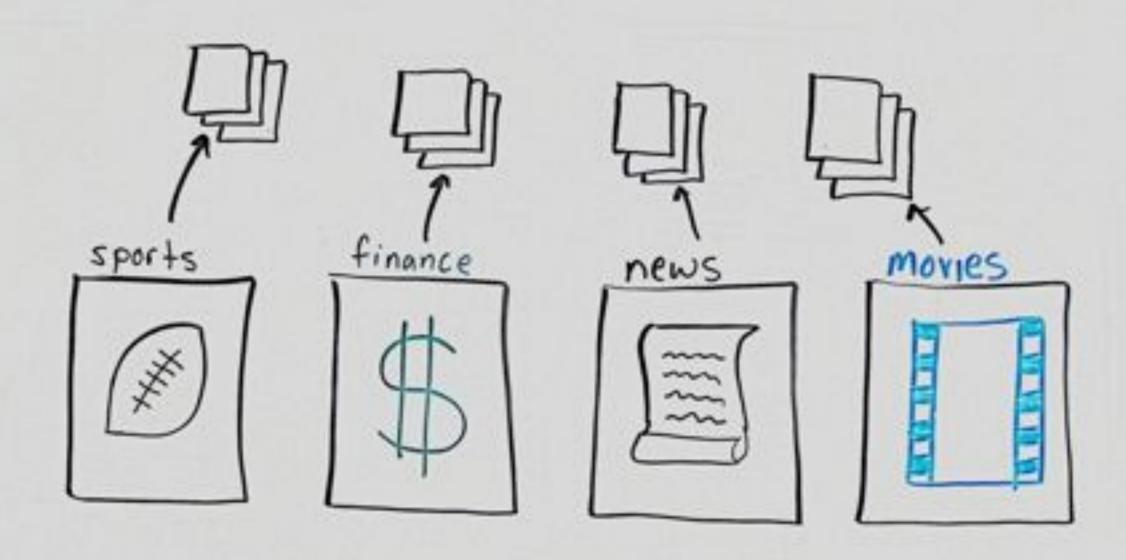


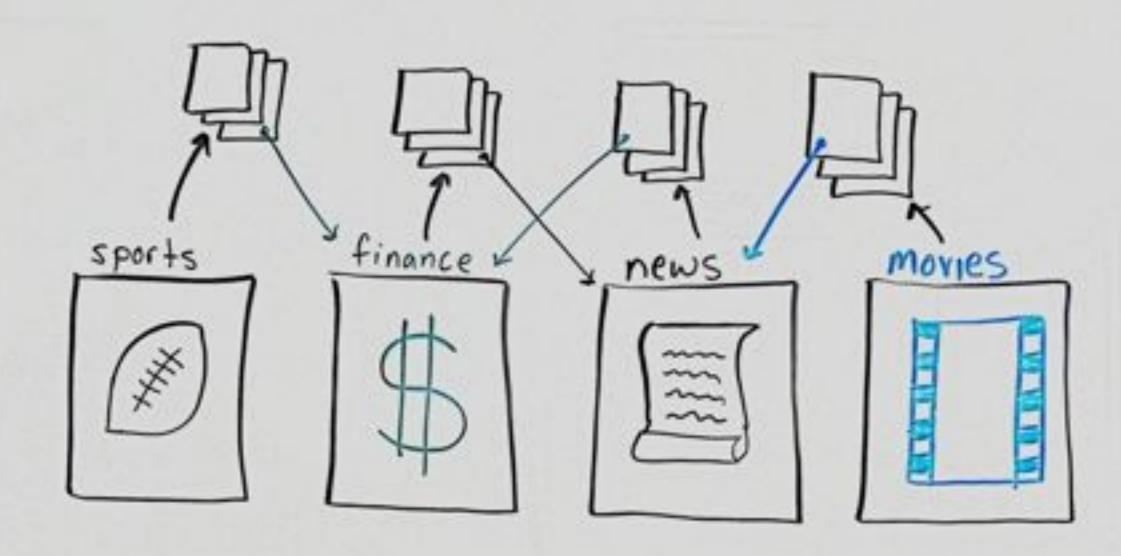












MMMM

Server

Client

MMMM

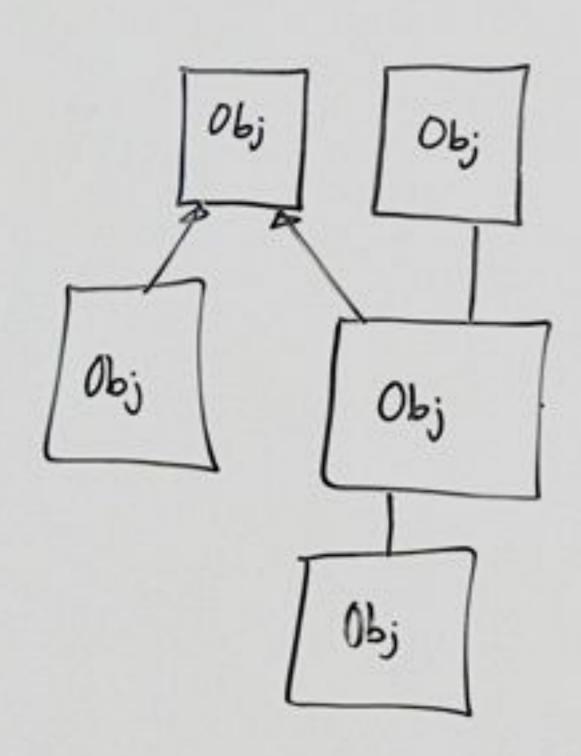
Server

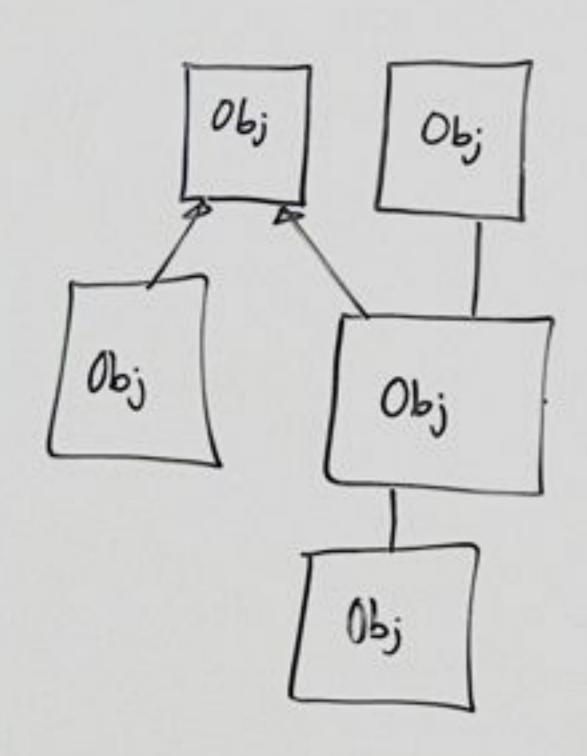
Client

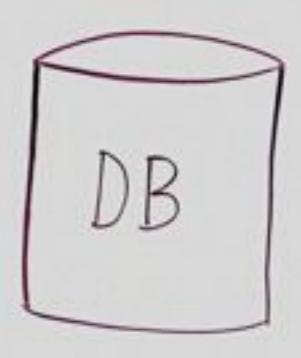
Client Server

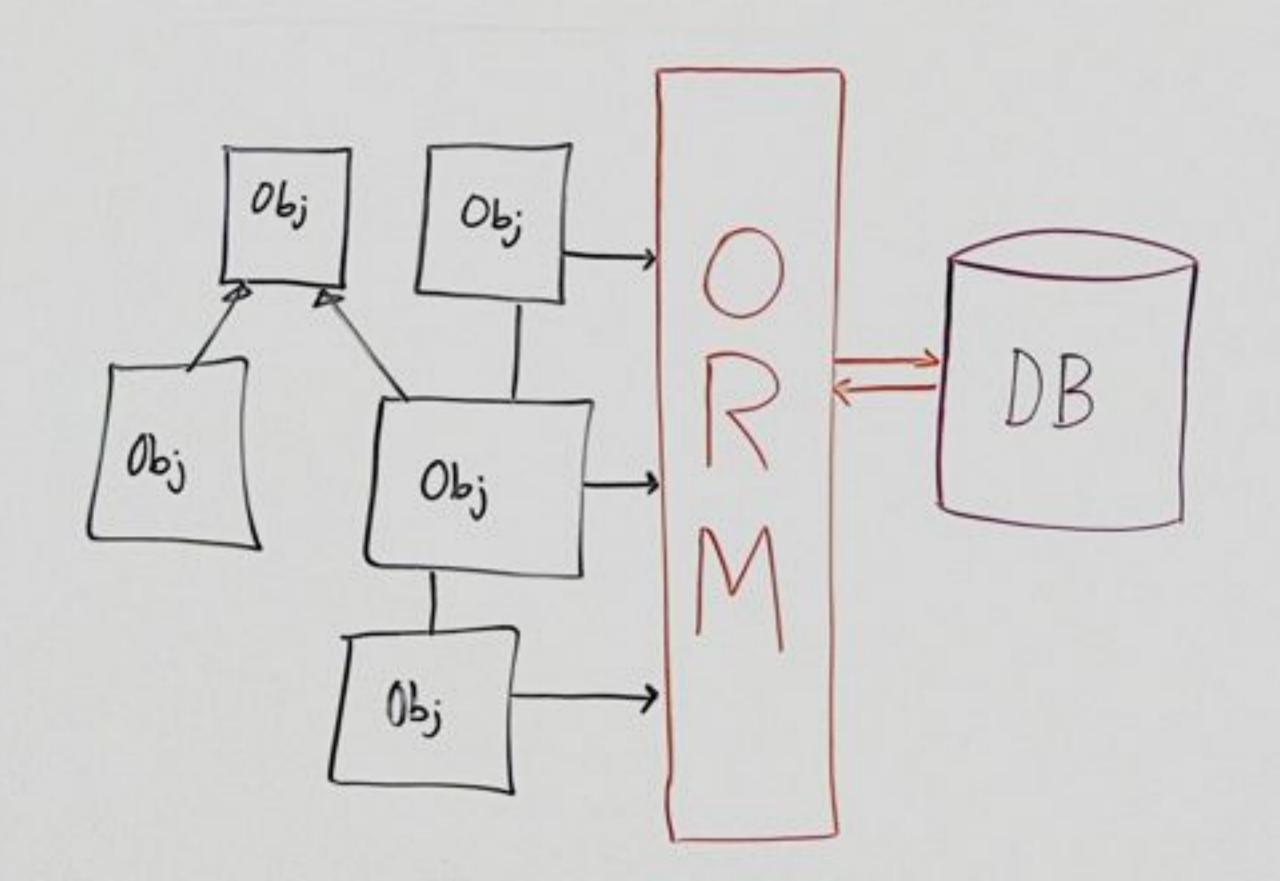
JS JS Server Client

ONE CODEBASE

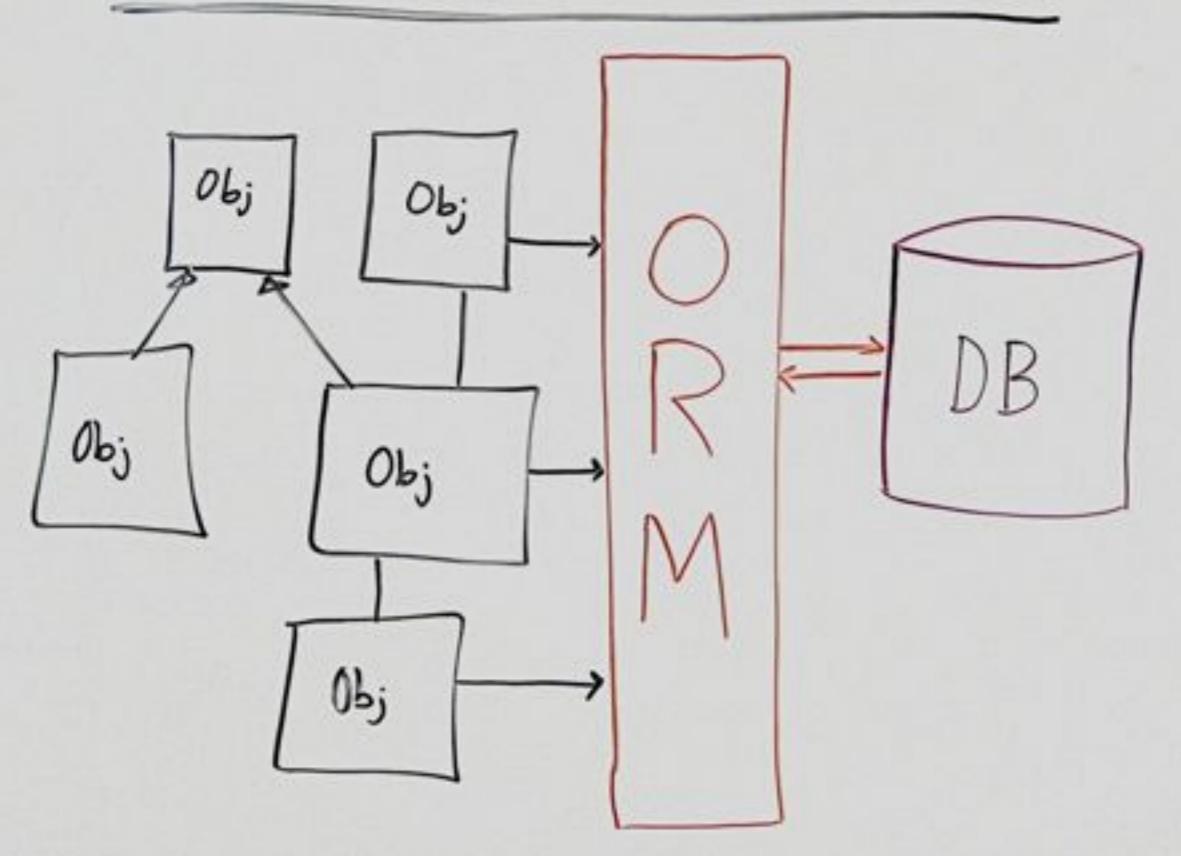




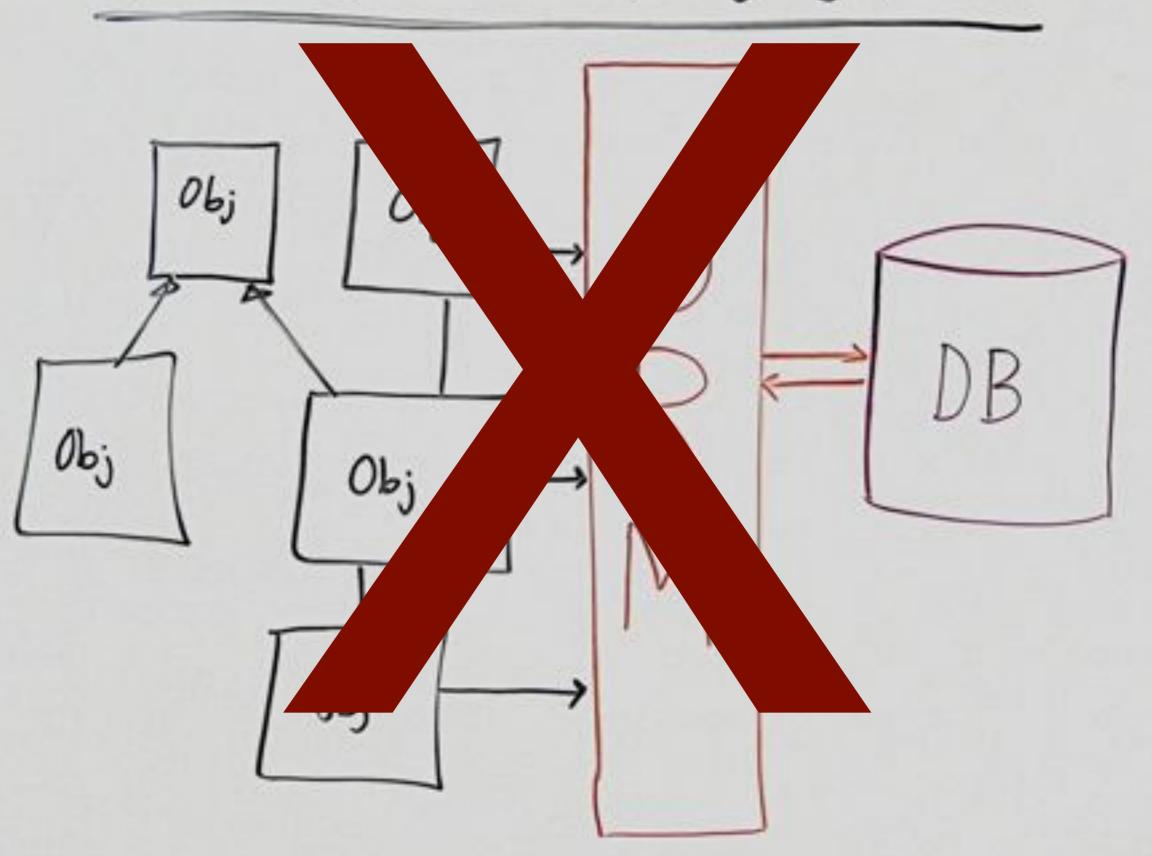




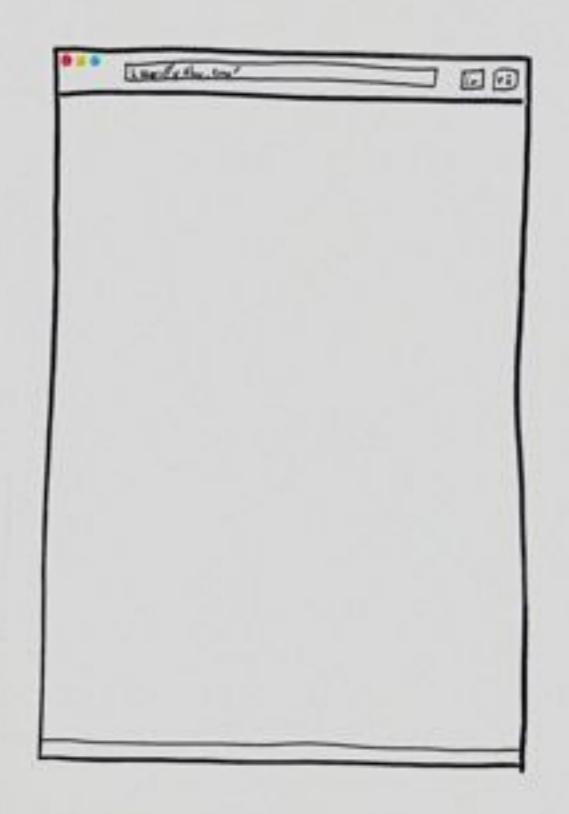
#### Rails, Grails, Django, etc.

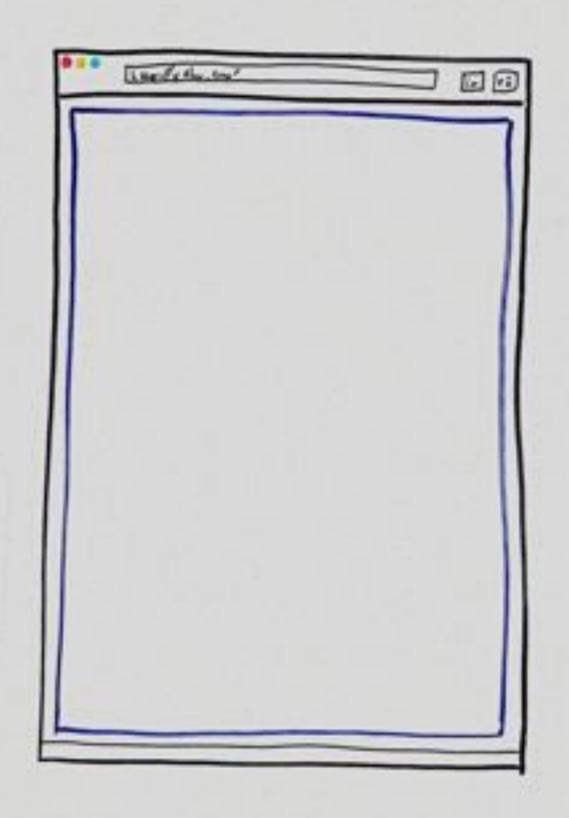


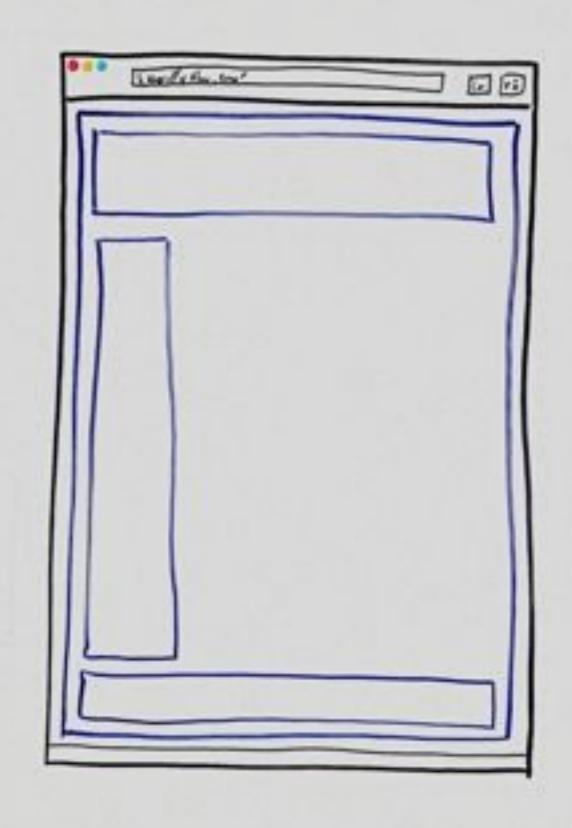
#### Rails, Grails, Django, etc.

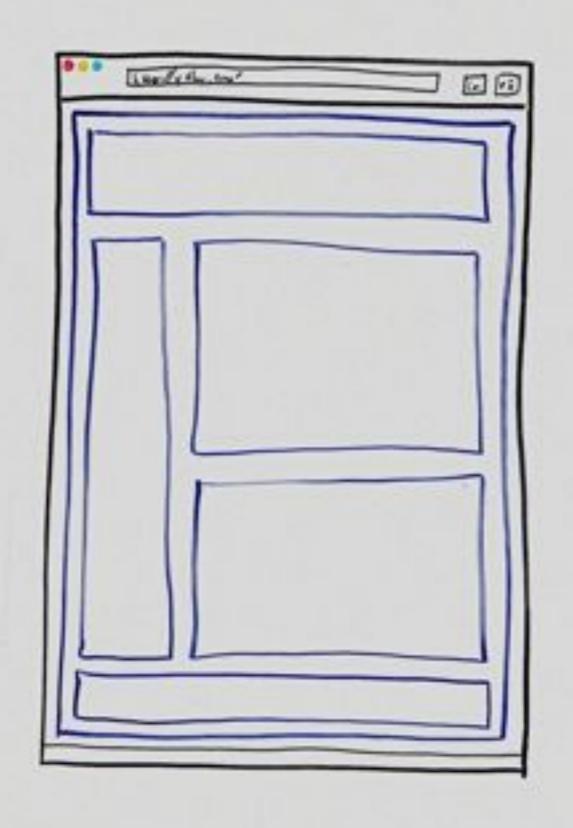


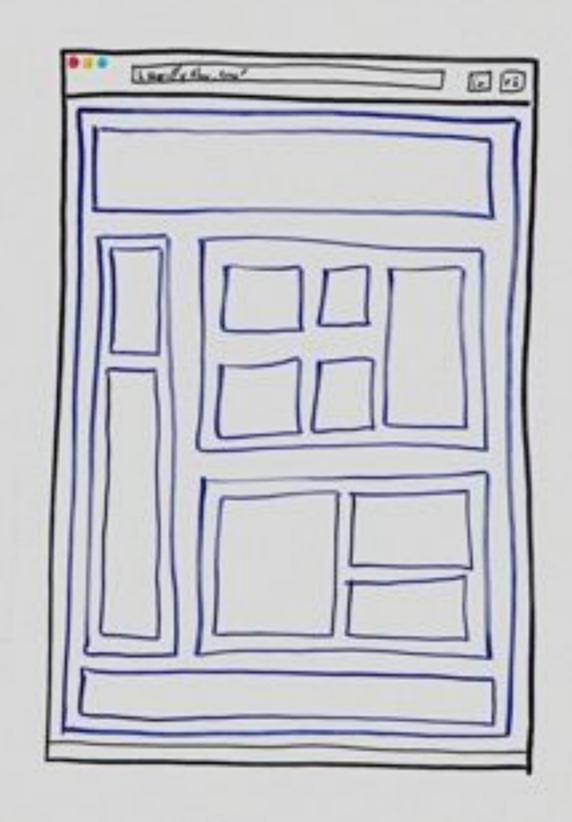
# Presentation-Centric











Widgets? Modules?



Widgets? Modules?

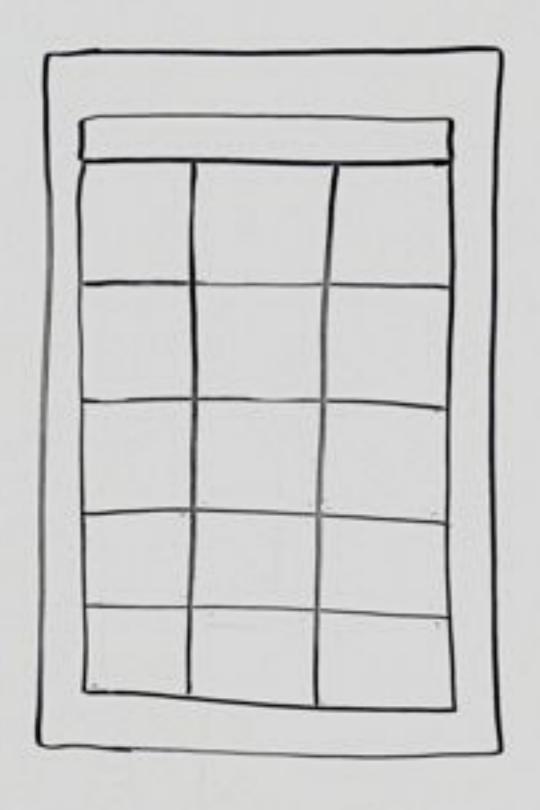
Mojits



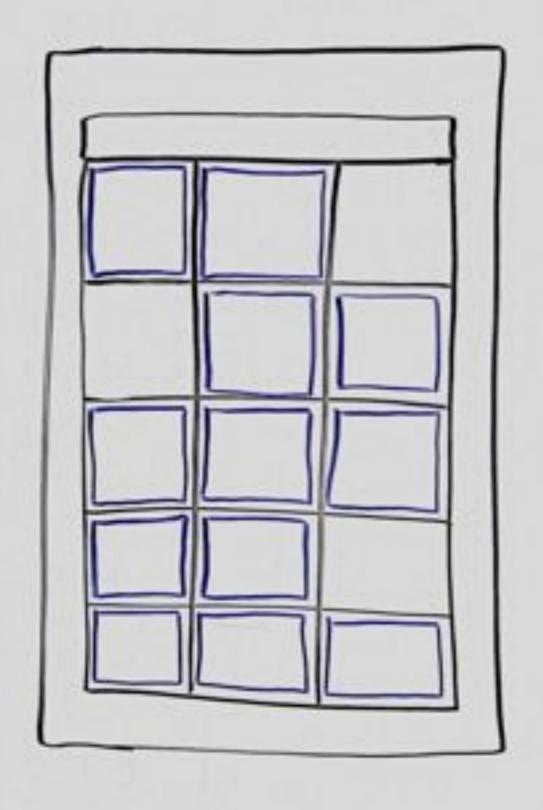
Widgets?
Modules?

Mojito

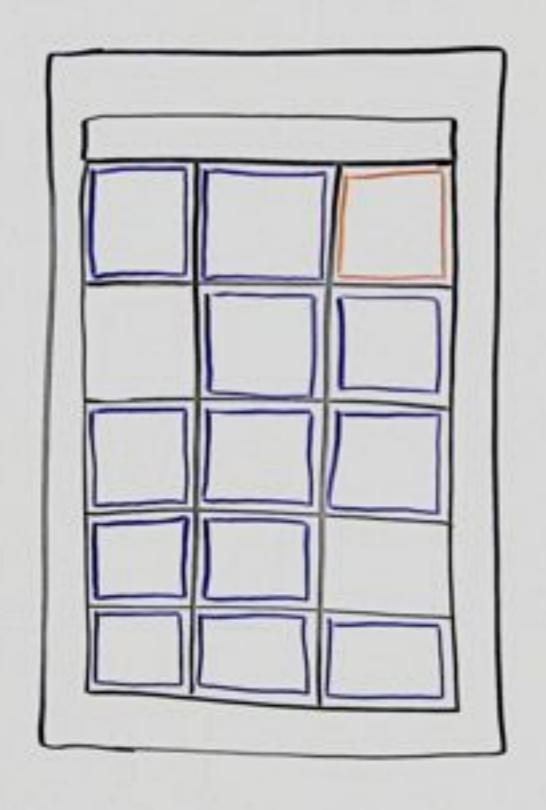




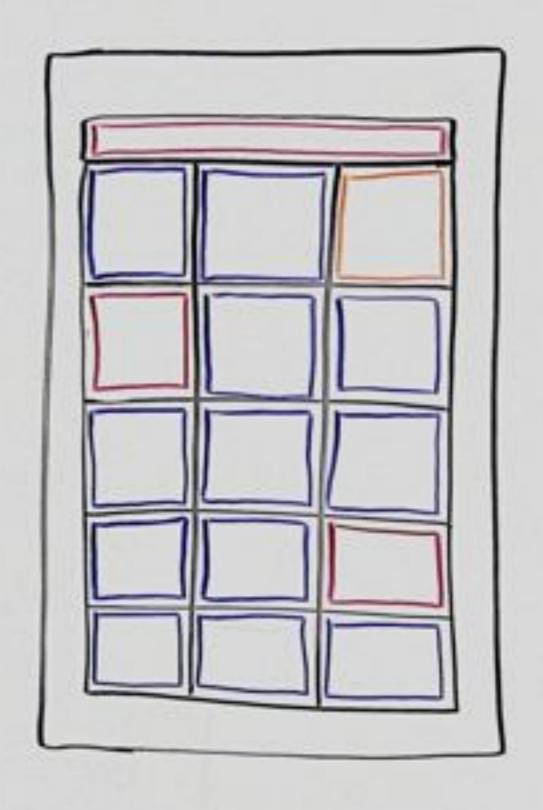
OMG!



OMG!

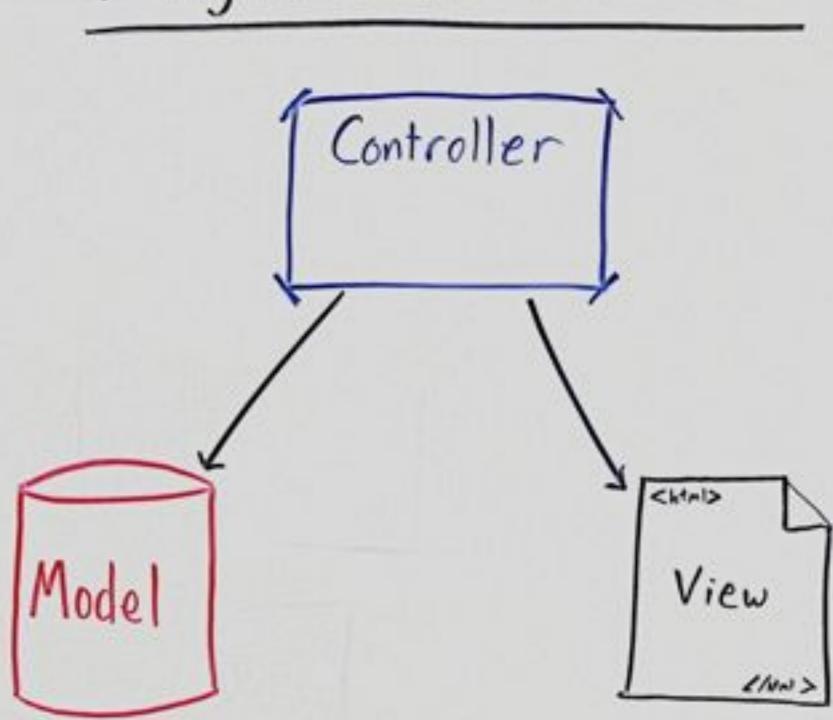


OMG!

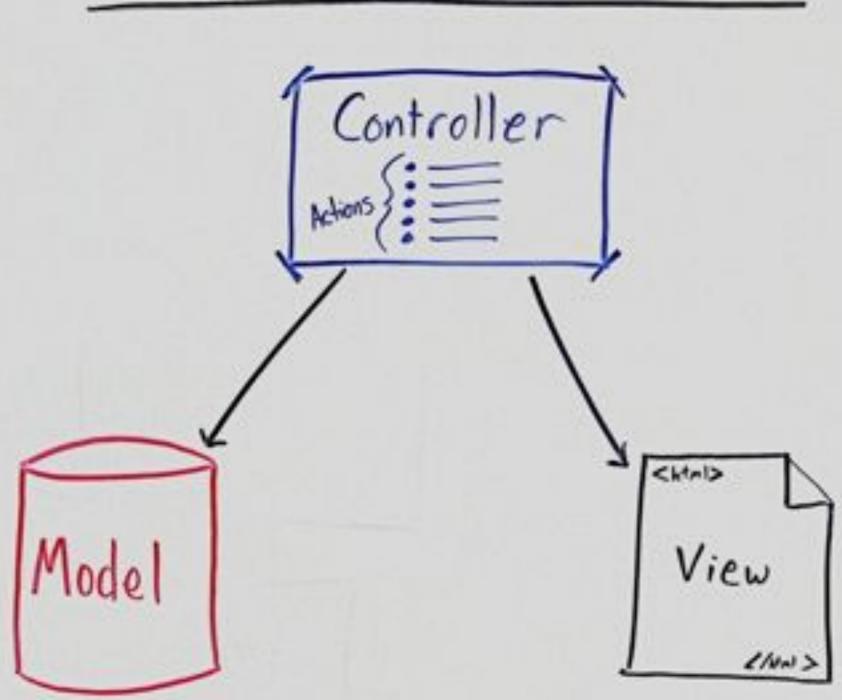


OMG!

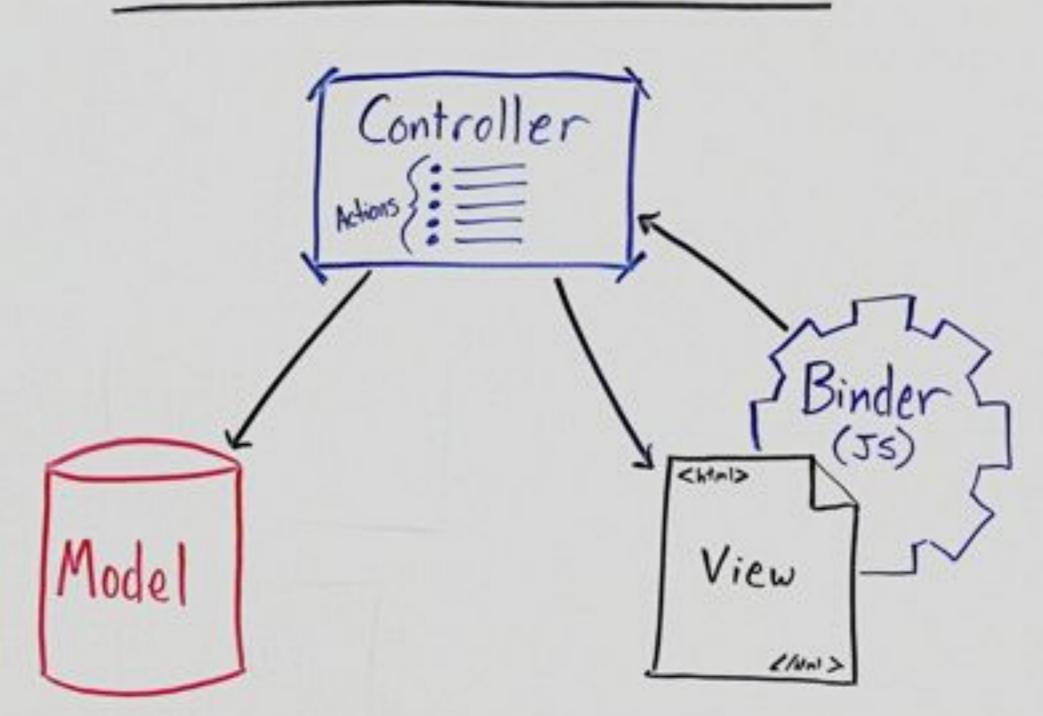
# Mojit MVC

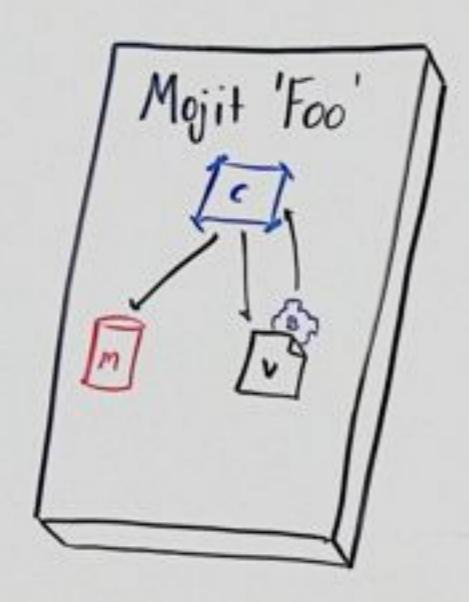


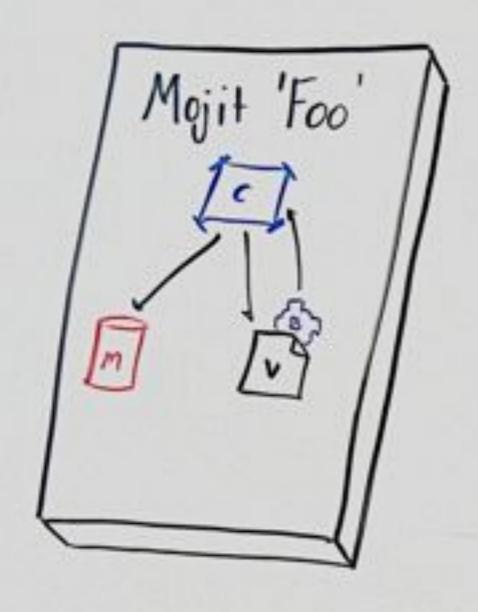
# Mojit MVC



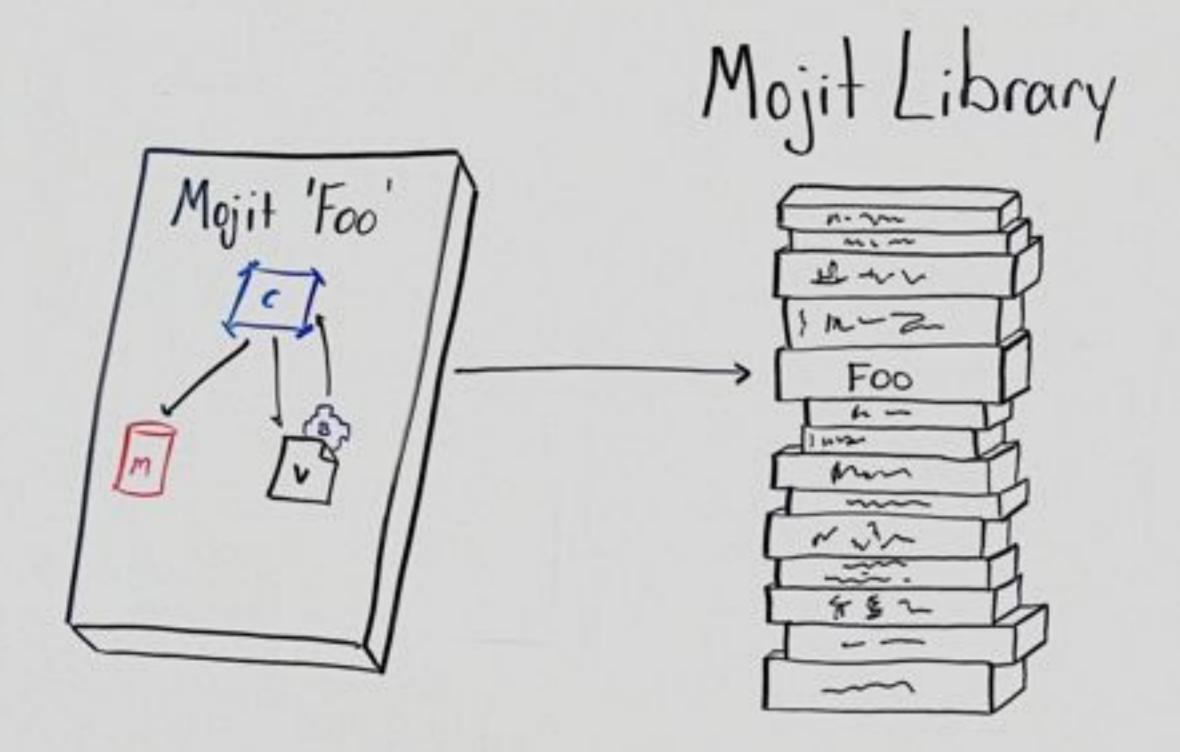
## Mojit MVC

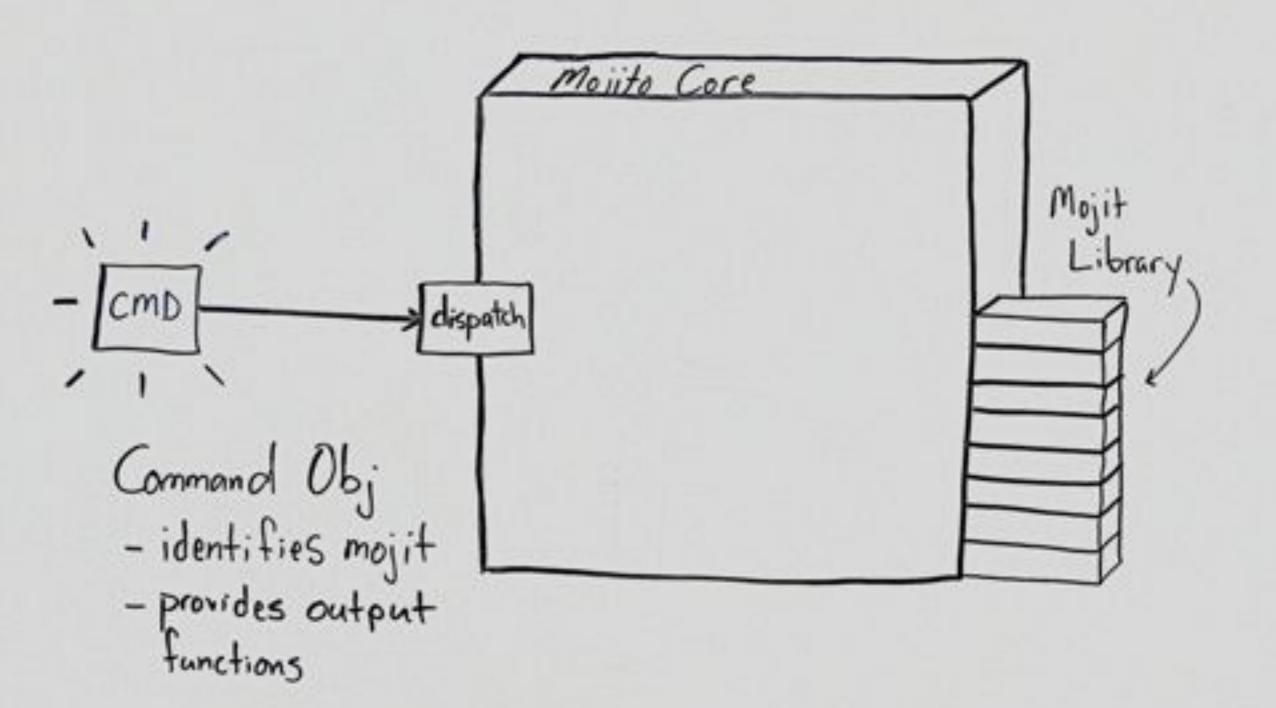


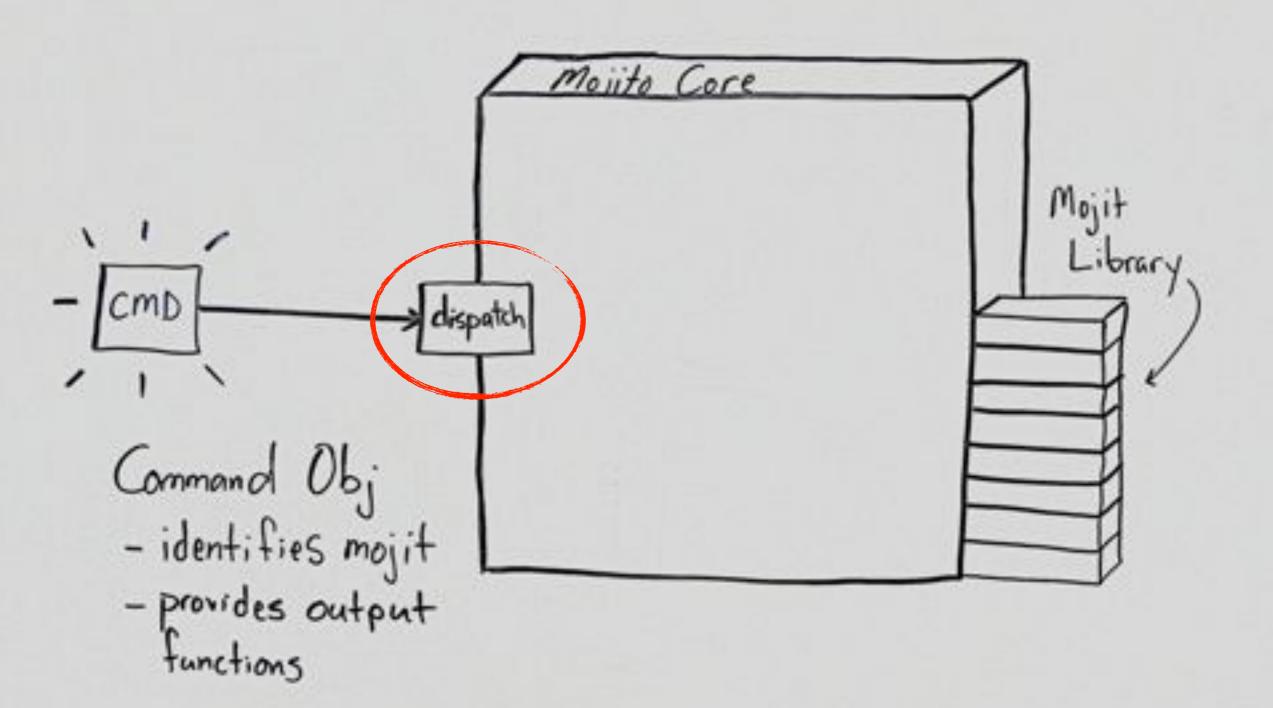


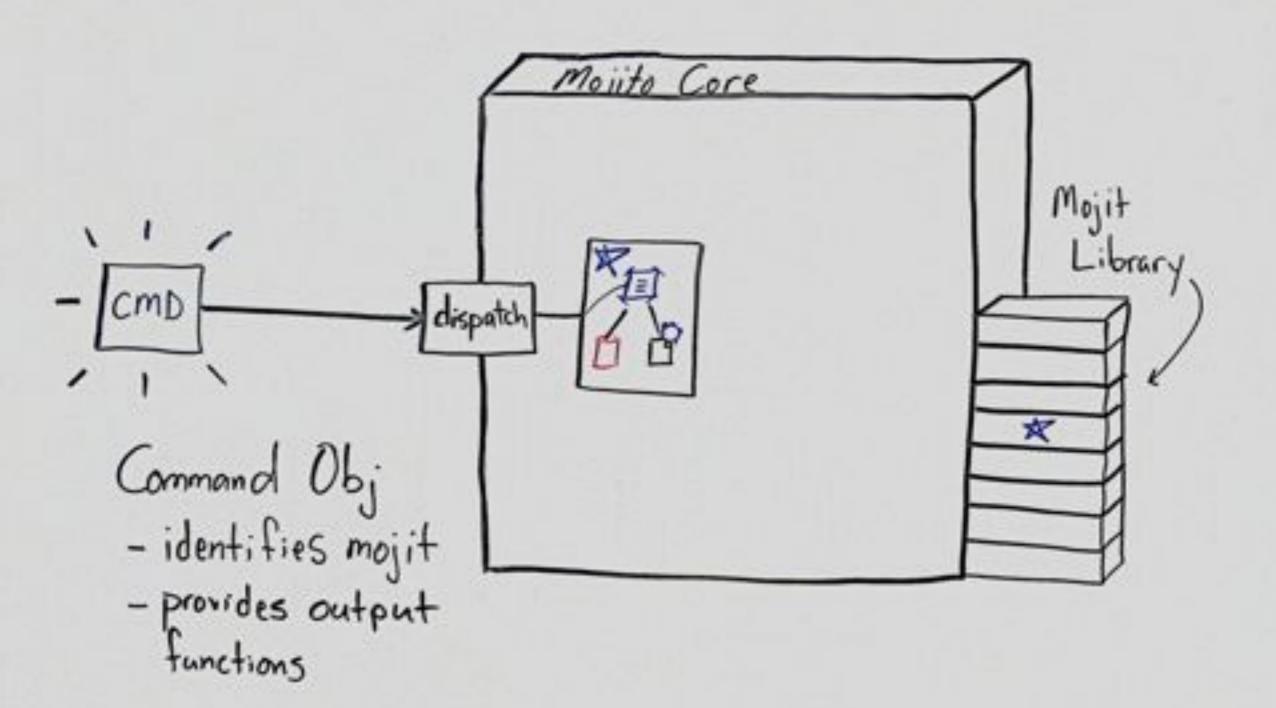


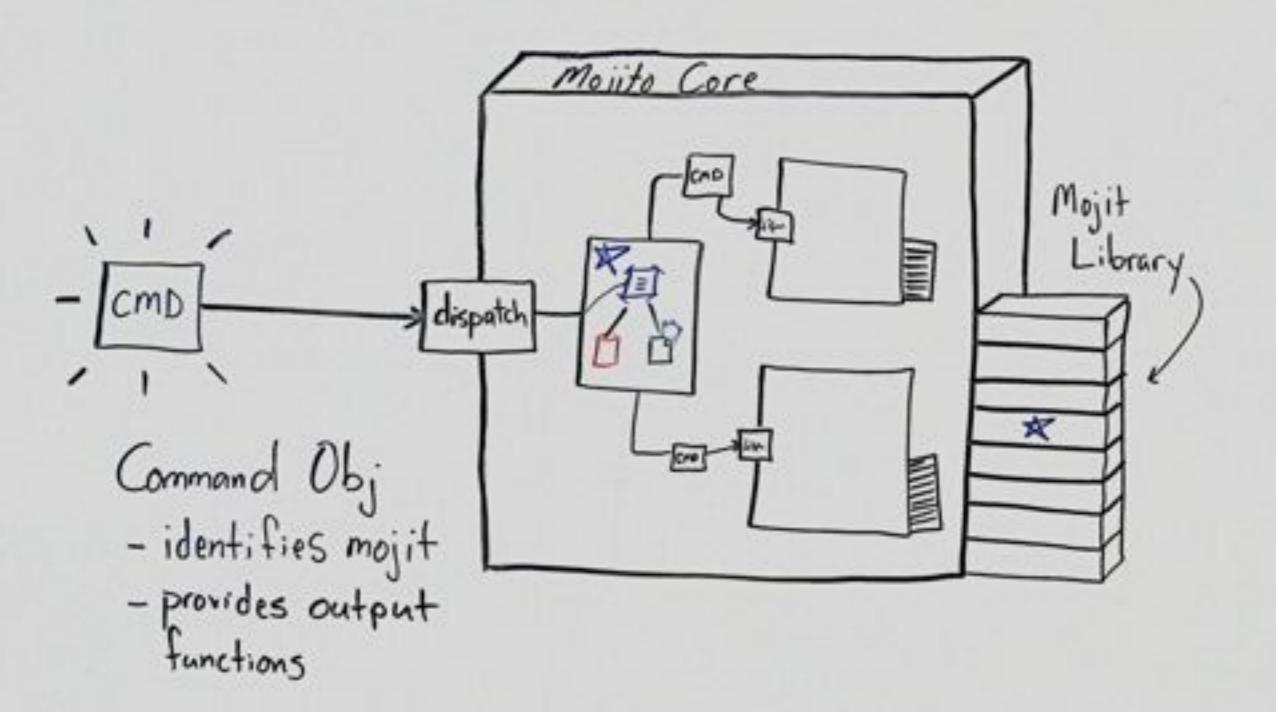


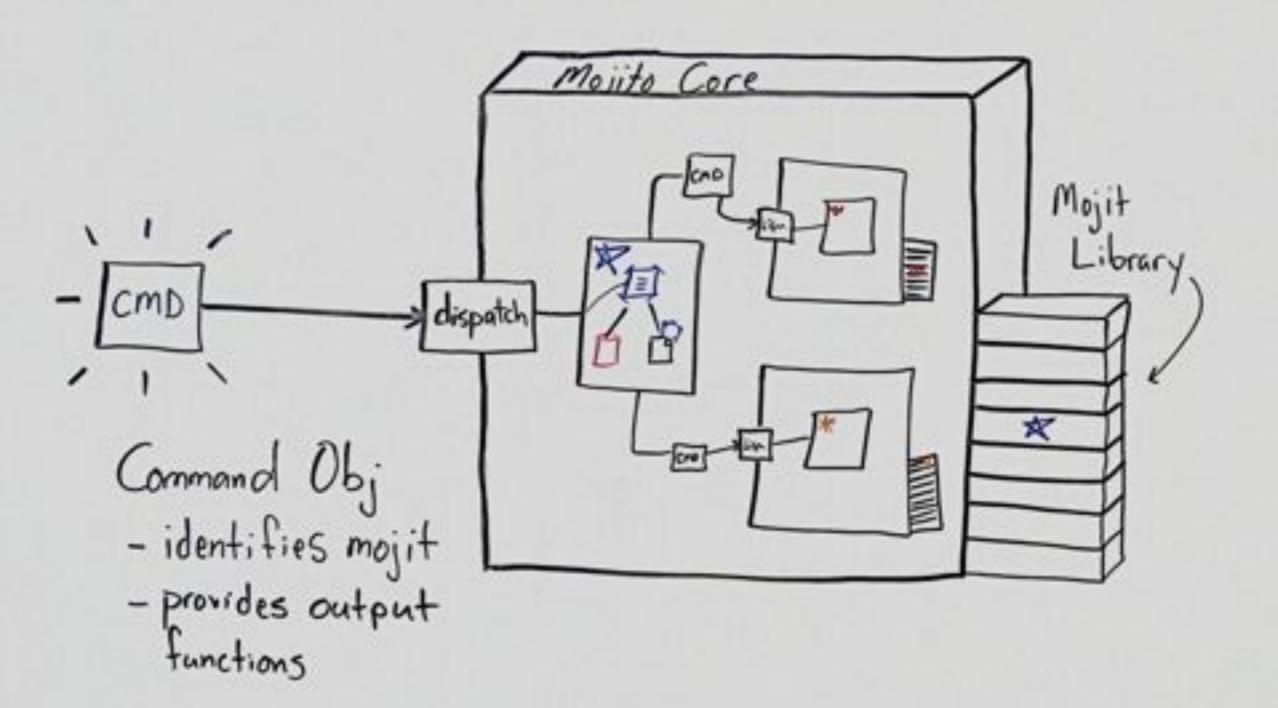


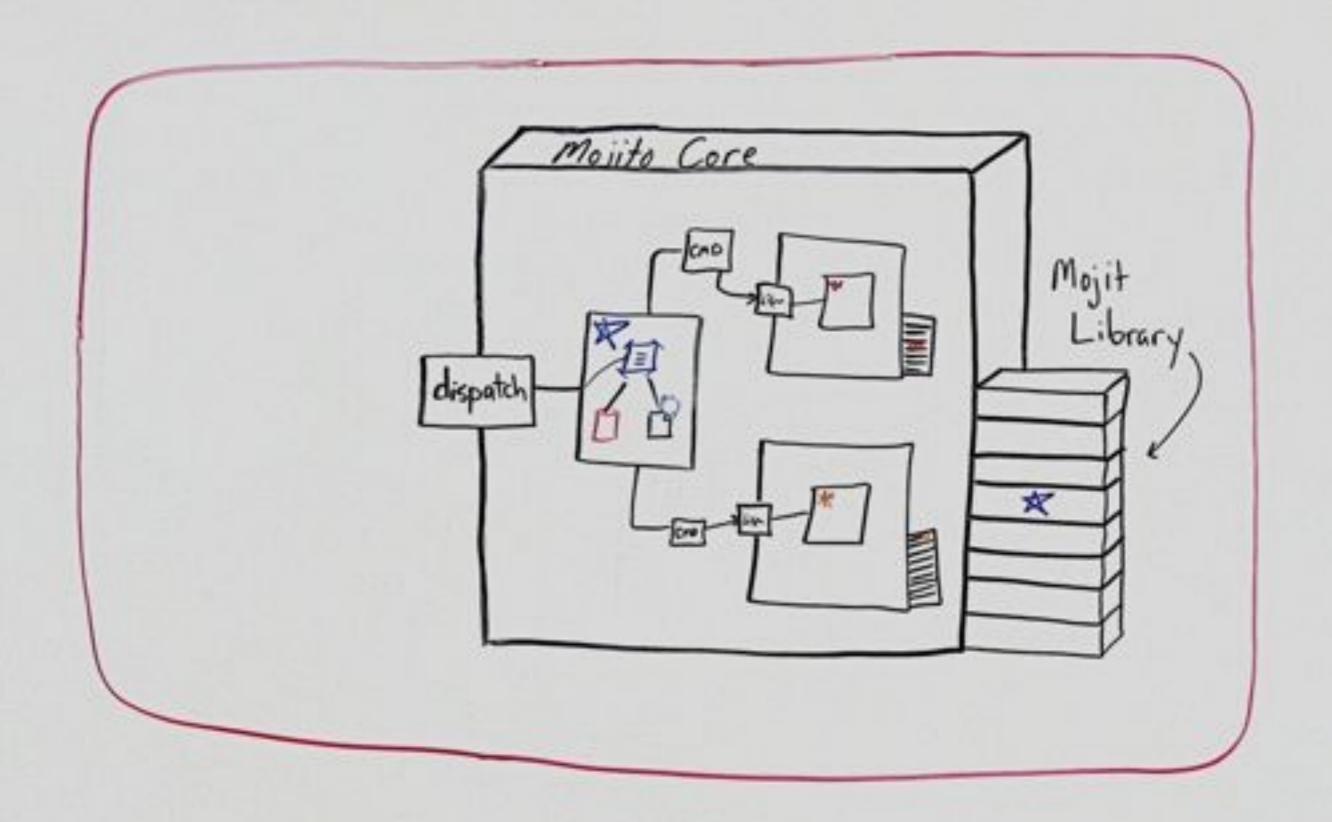


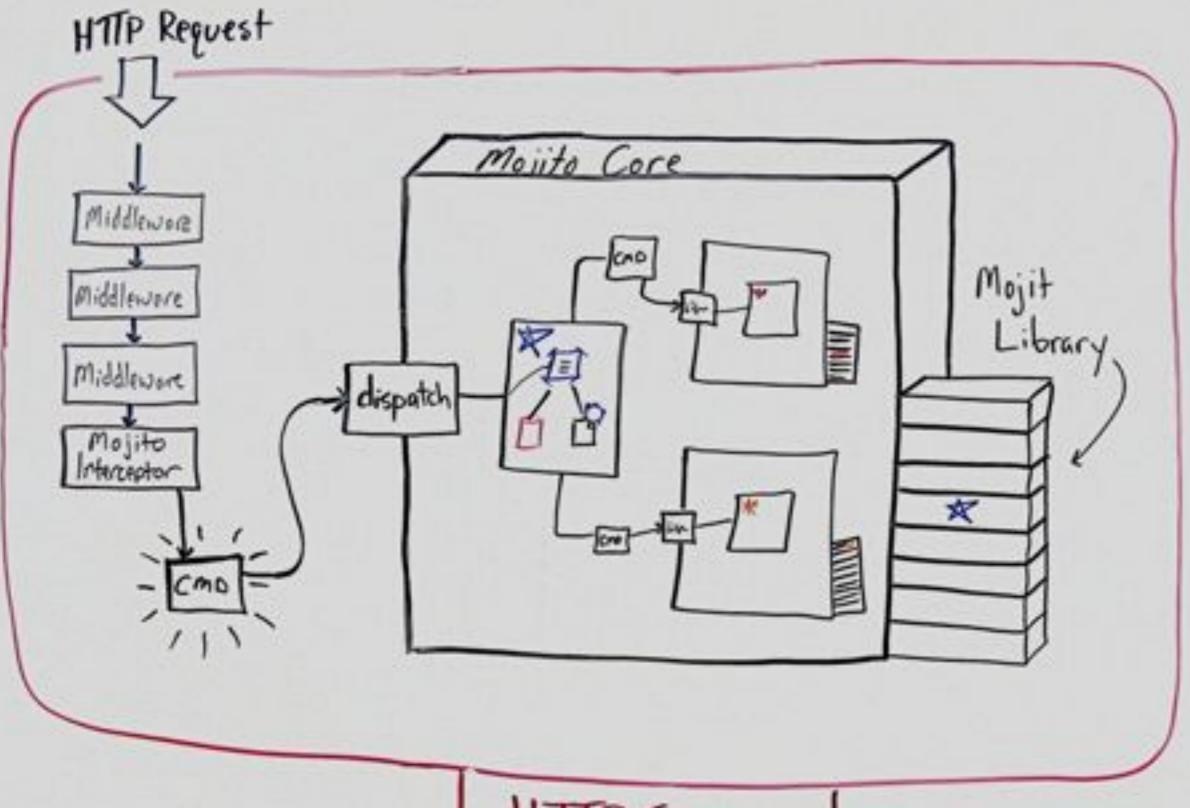




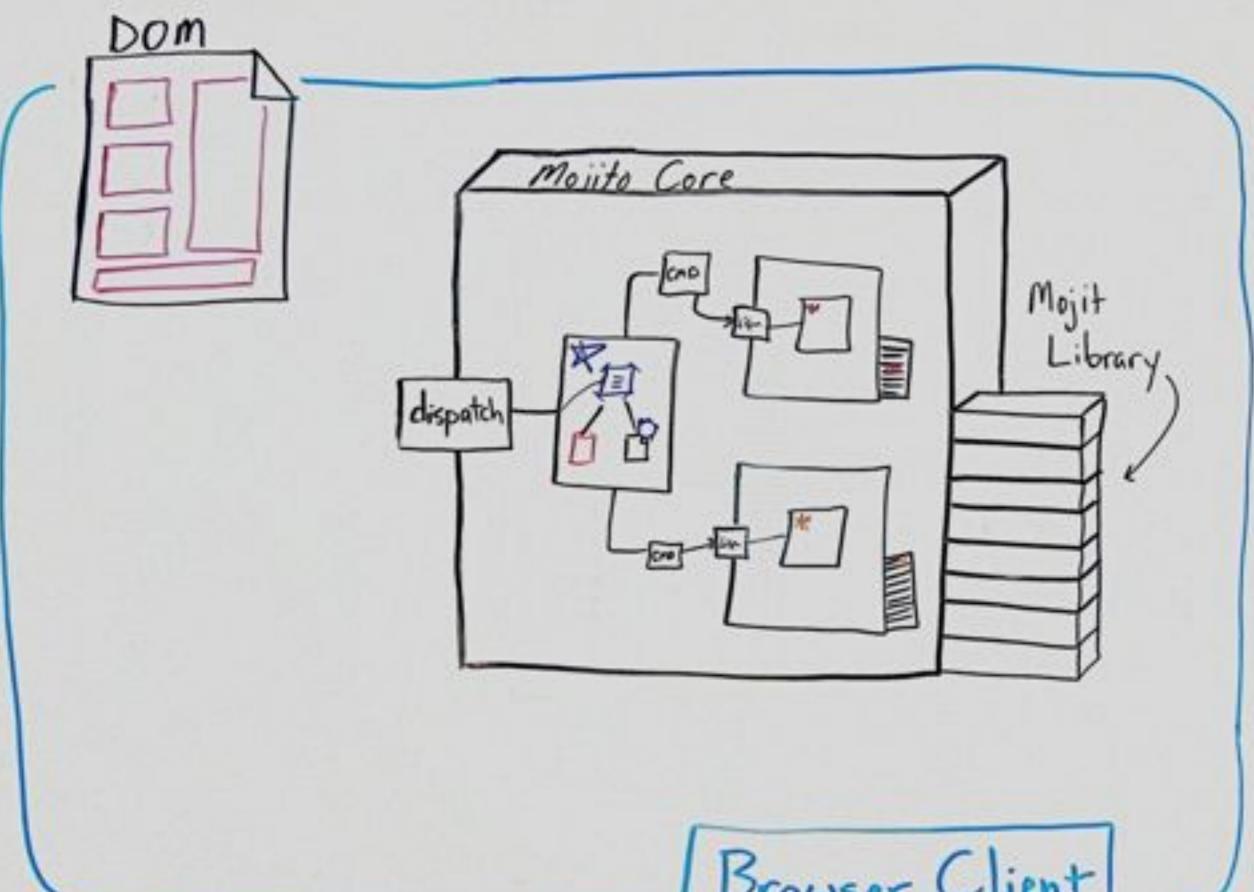




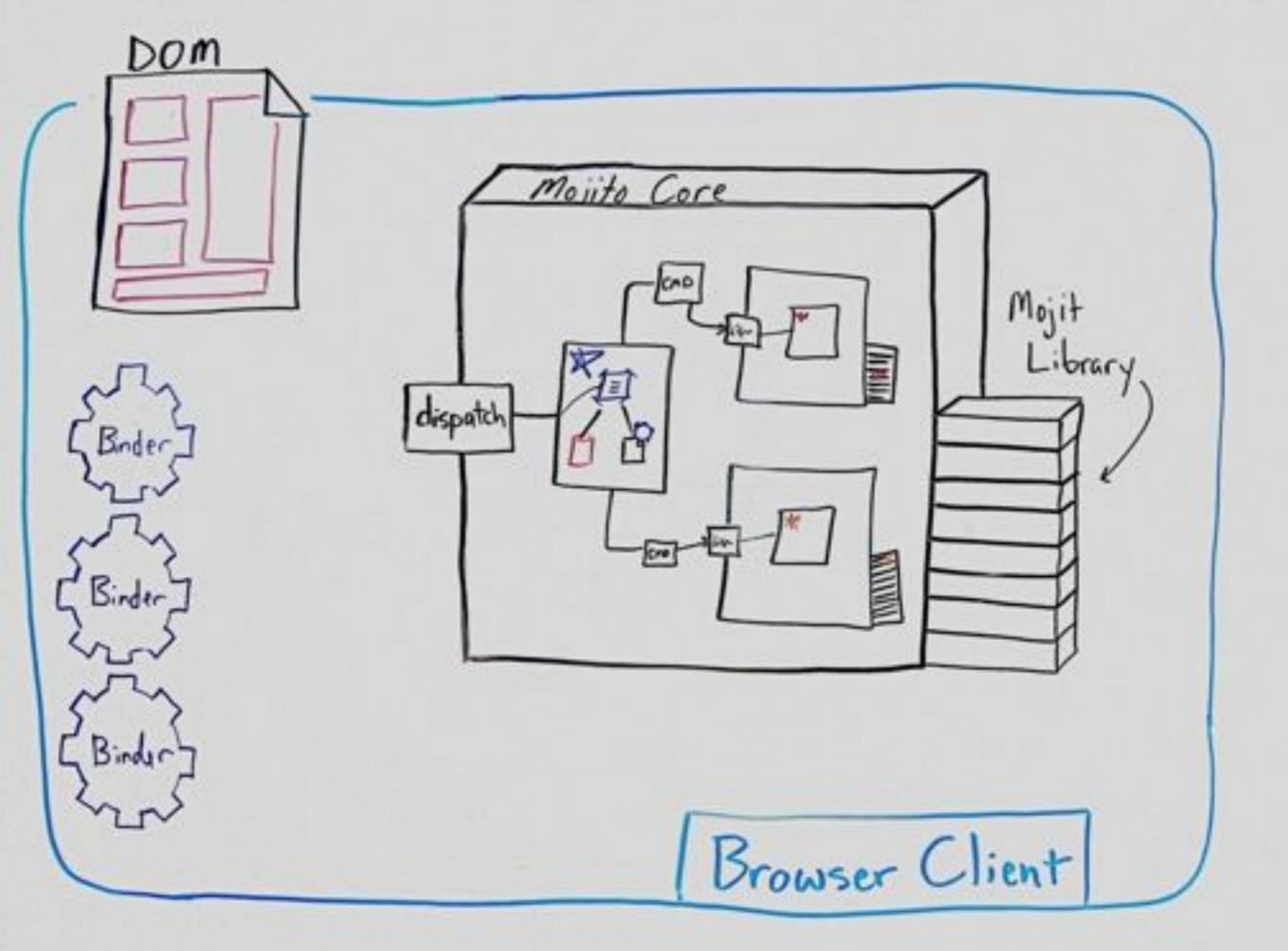


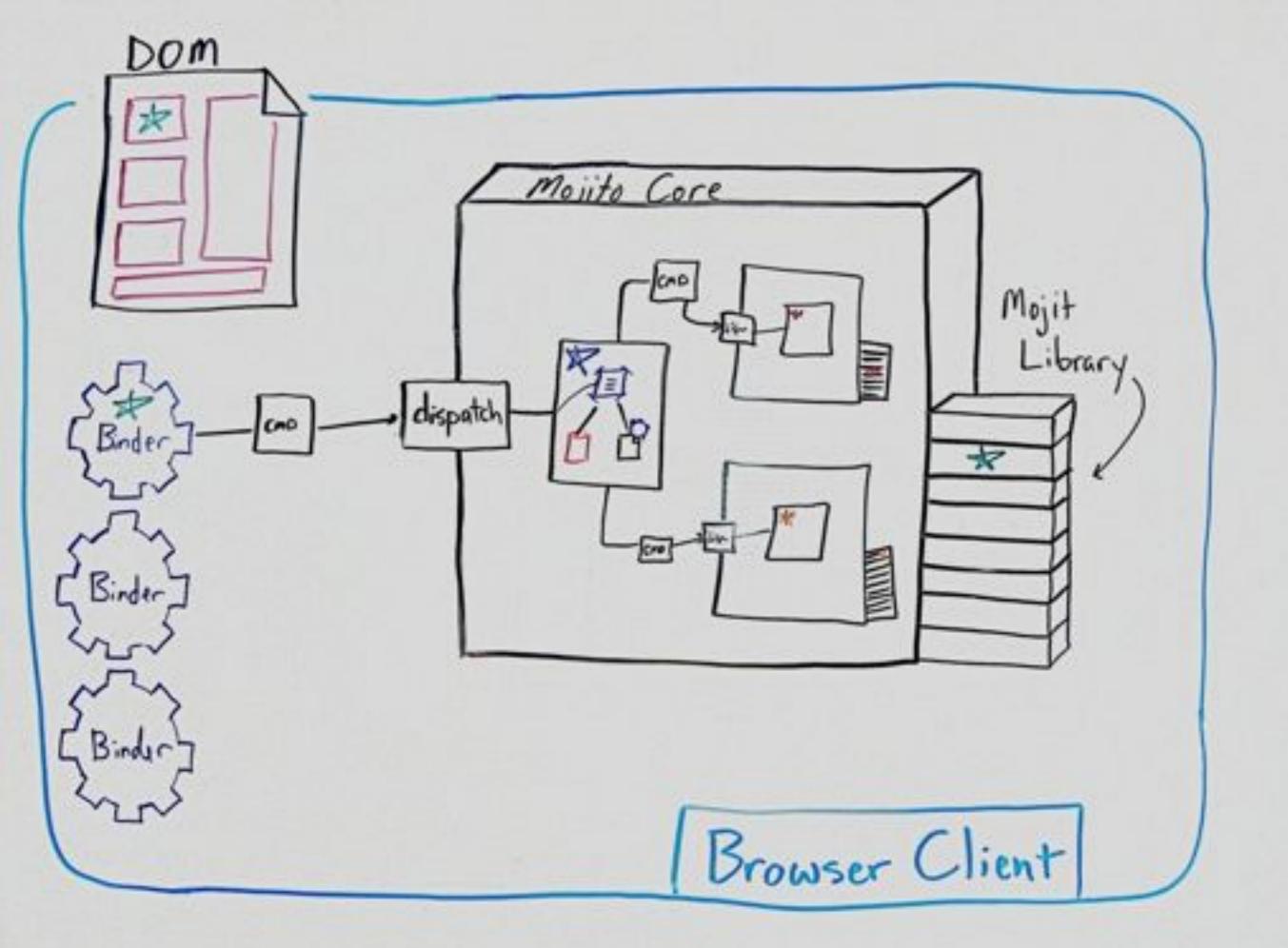


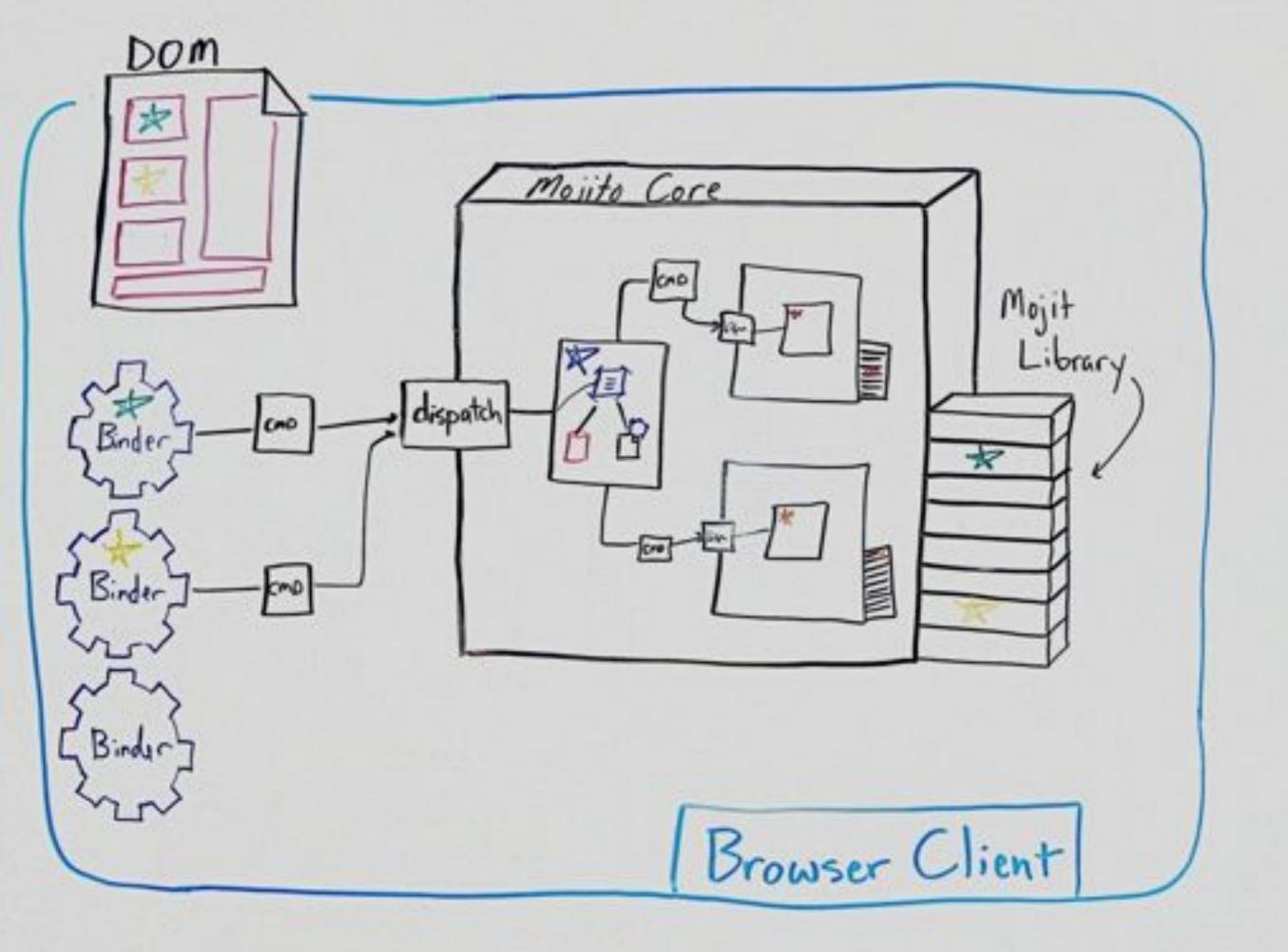
HTTP Server

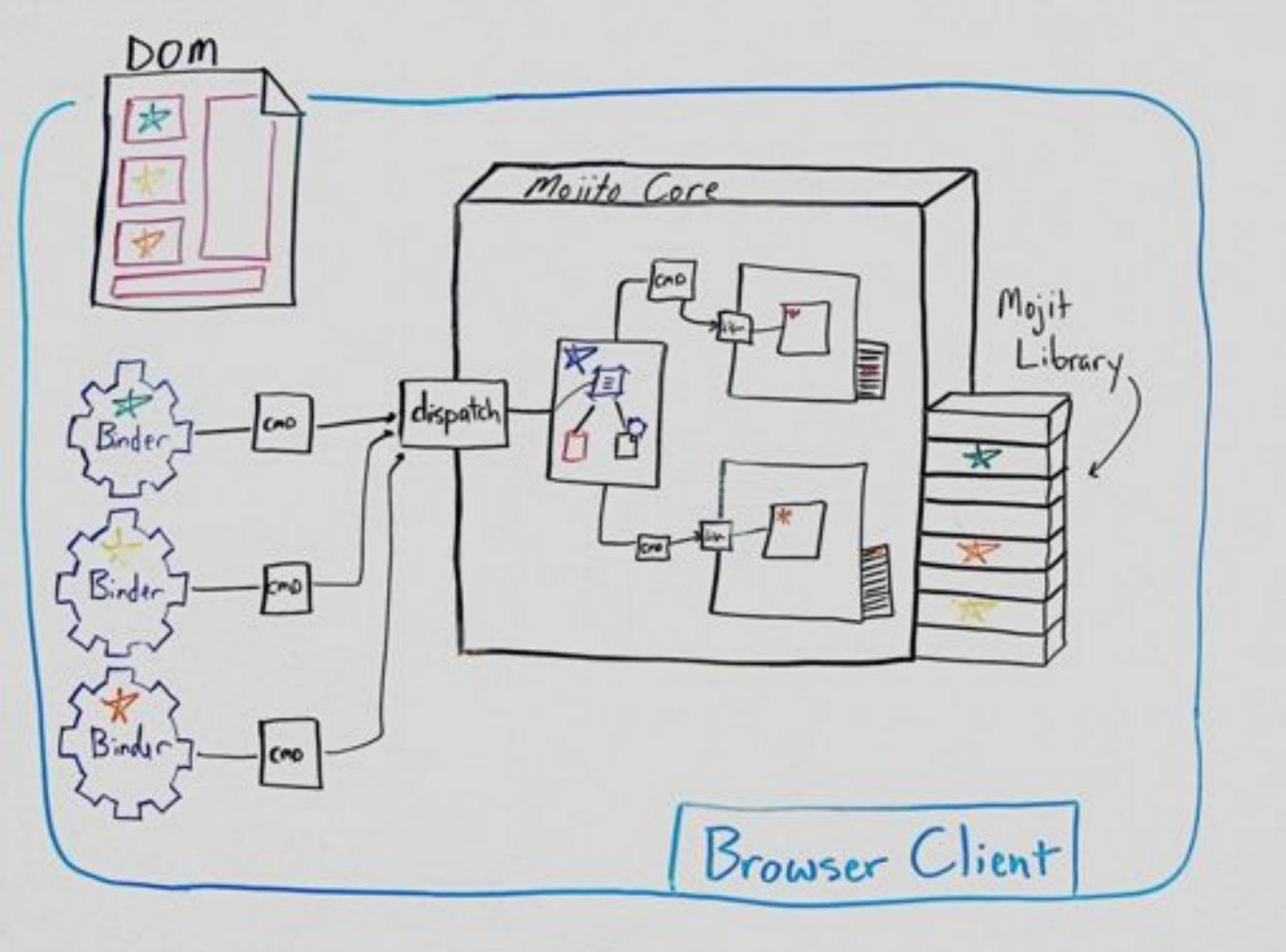


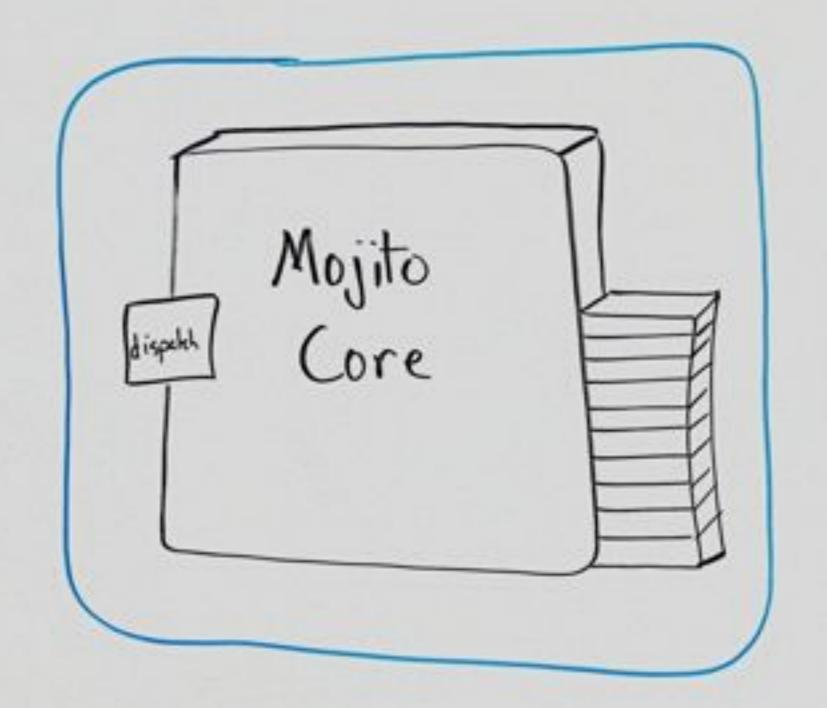
Browser Client

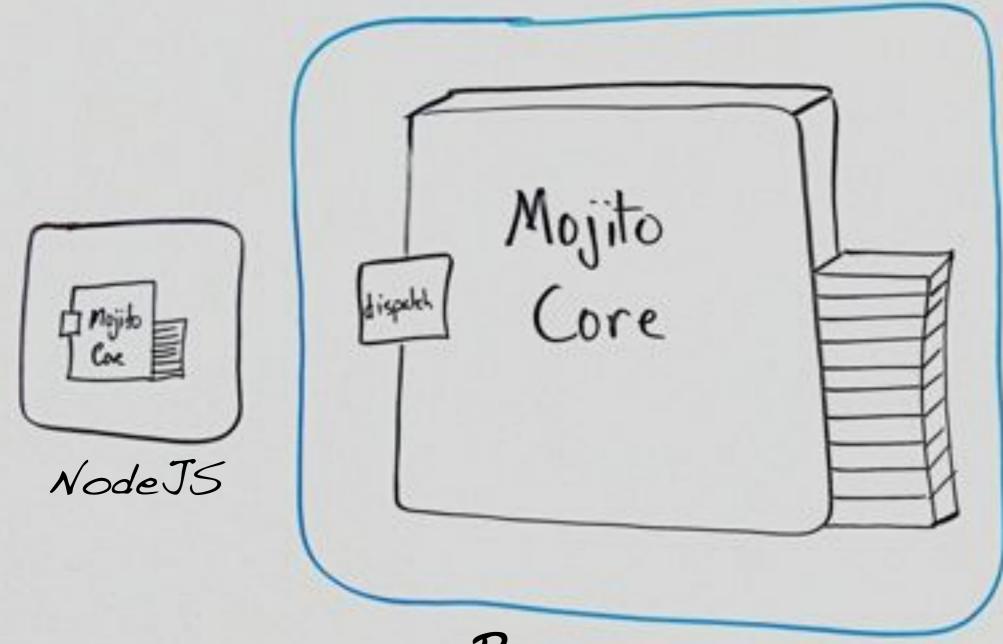


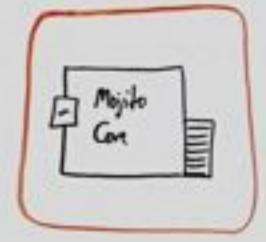












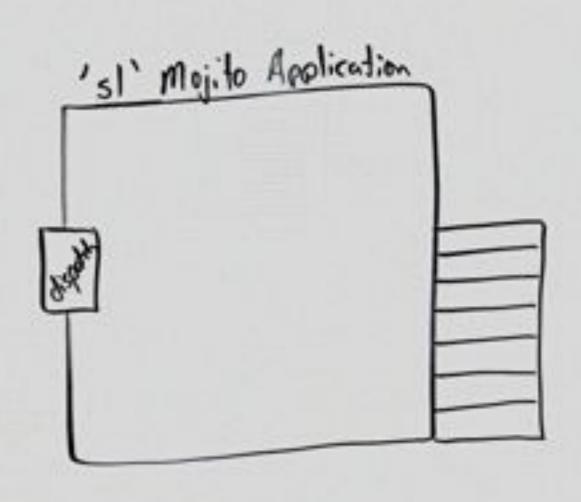
Native Web view

Browser

### \$) mojito create app sl

### \$) mojito create app sl

application.json assets index.js mojits Package.json Server.js

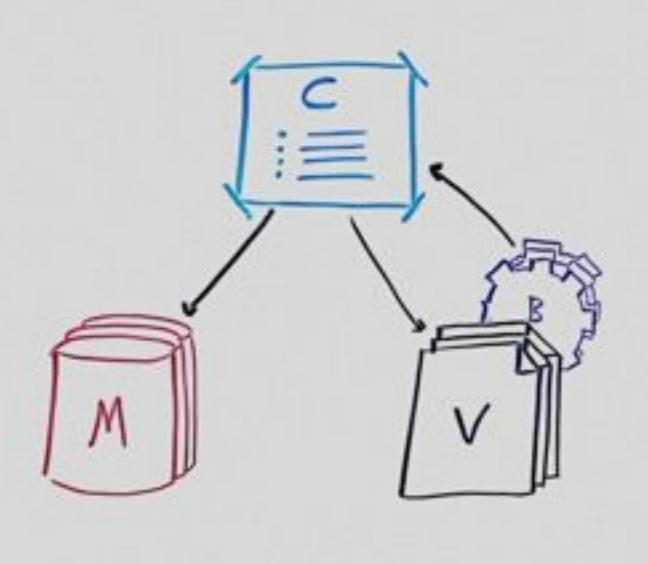


### \$) mojito create app sl

application.json assets 'sl' Mojito Application index.js mojits Package json Server js

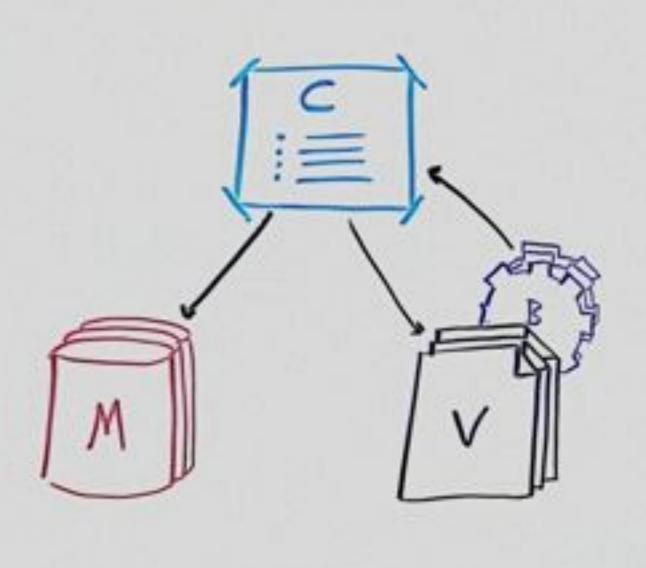
### \$) mojito create mojit Foo

s/mojits/Foo assets binders controller. server.js definition.js models tests Views



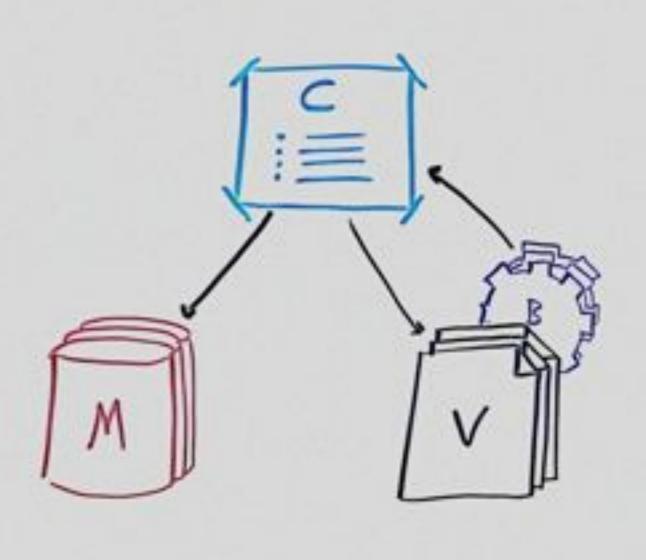
### \$) mojito create mojit Foo

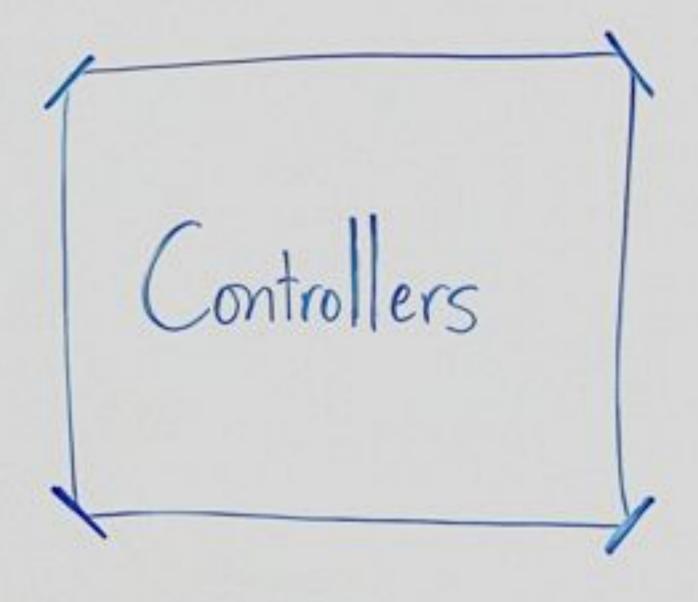
s/mojits/Foo assets binders controller. server.js definition.js models tests Views



## \$) mojito create mojit Foo

s/mojits/Foo assets binders controller. server.js definition.js models tests Views





API for Controllers

· GET DATA

· PUSH DATA

GET DATA

From: Models

ac.models.\*.getData();

#### GET DATA

From: Models

Config

ac.models.\*.getData();

ac.config.get('key');

#### GET DATA

From:

Models

Config

Environment

ac.models.\*.getData();

ac.config.get('key');

ac. device.get ('make');

#### GET DATA

Models

Config

Environment

Command

ac.models.\*.getData(); ac.config.get('key');

ac. device. get ('make');

ac. params. body ('key');

PUSH DATA

Assets

ac.assets.addCss('./style.css');

#### PUSH DATA

Assets

Response

ac.assets.addCss('./style.css');

ac.cookie.set ('flaror', 'choco-chip'); ac.http.addHeader ('x-foo', 'val');

#### PUSH DATA

Assets

Response

Response Body ac.assets.addCss('./style.css');

ac.cookie.set ('flaror', 'choco-chip'); ac.http.addHeader ('x-foo', 'val');

ac. done ('Write this string!'); ac. error ('Shit happened: -(');

#### ADDONS

- ac. params.

  - . http.
  - .cookie.
  - · composite
  - .assets.

#### ADDONS

ac. params. . . config.

. http.

.cookie.

· composite.

.assets.

These are already

framework extensions.

You can make your own!

#### Models

- Simple static functions
- MUST NOT BLOCK EVENT LOOP

sl/mojits/Foo/views index.mu.html

```
Controller...

index: function(ac) {

ac.models.bar.getData(function(err,data){

ac.done(data);
});
```

Sl/mojits/Foo/views Index mu. html Controller ....

```
index: function(ac) {
   ac.models.bar.getData(function(err,data){
   ac.done(data);
  });
```

sl/mojits/Foo/views index mu.html other.mu.html Controller ....

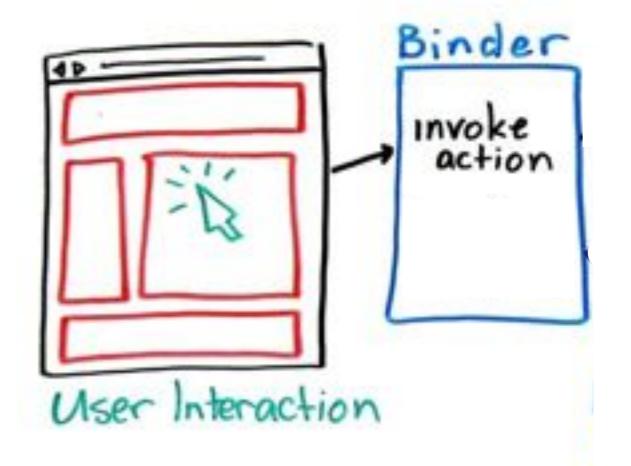
index: function(ac) { ac.models.bar.get Data (function (err, data) { ac.done(data, { View: Ename: 'other'}

Sl/mojits/Foo/views lindex.mu.html Controller ....

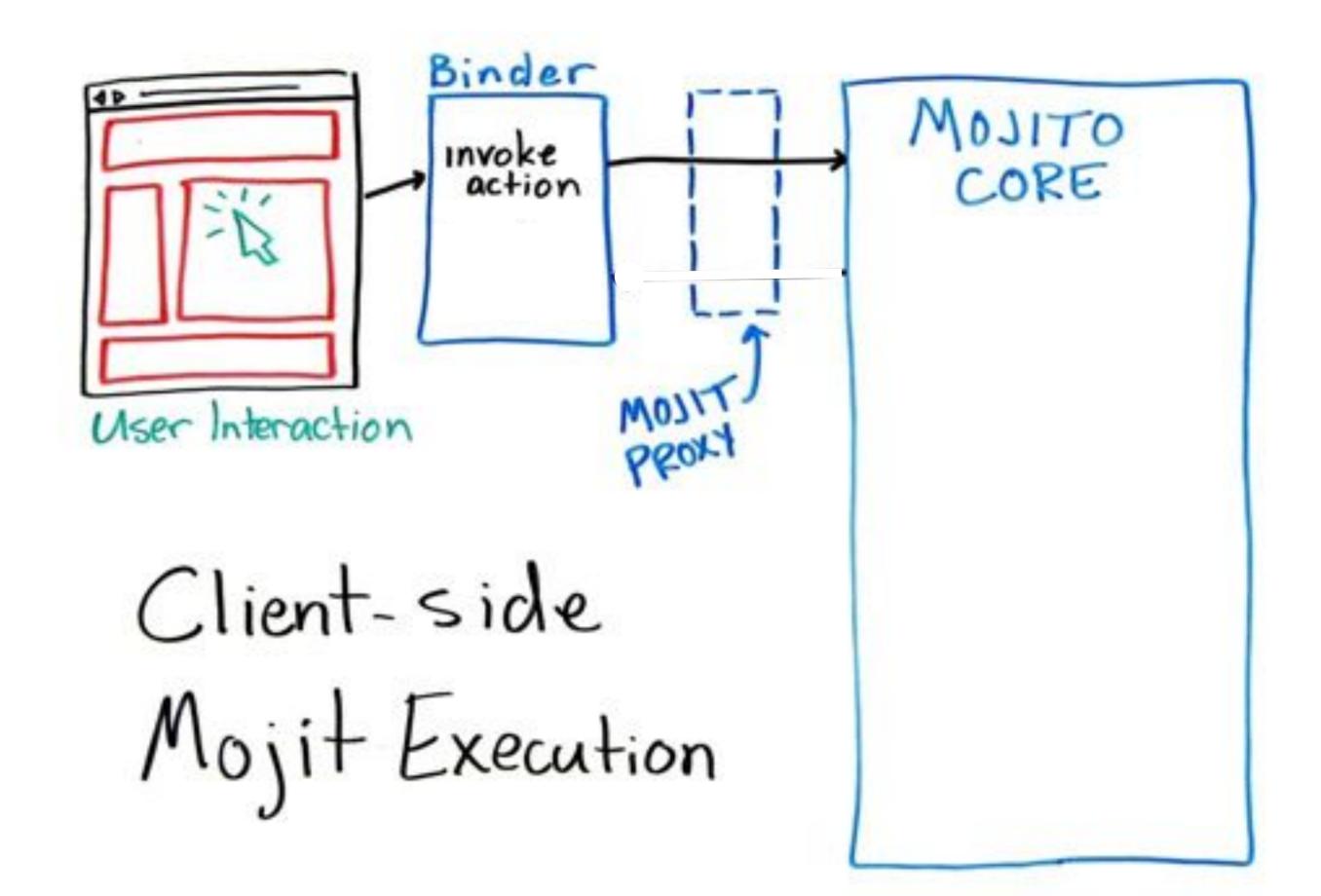
index: function(ac) { ac.models.bar.get Data (function (err, data) { ac.done(data, { View: Ename: other'}

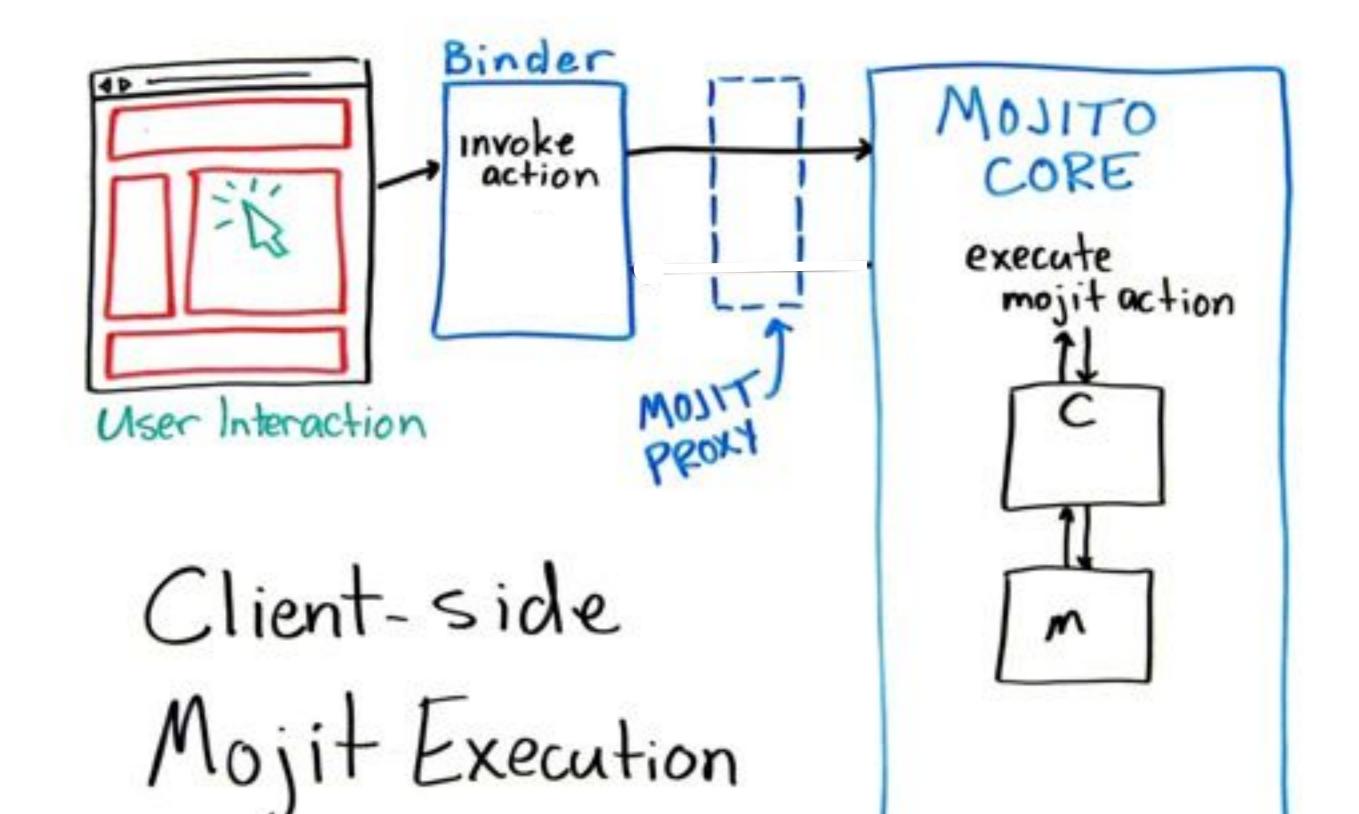
### BINDERS

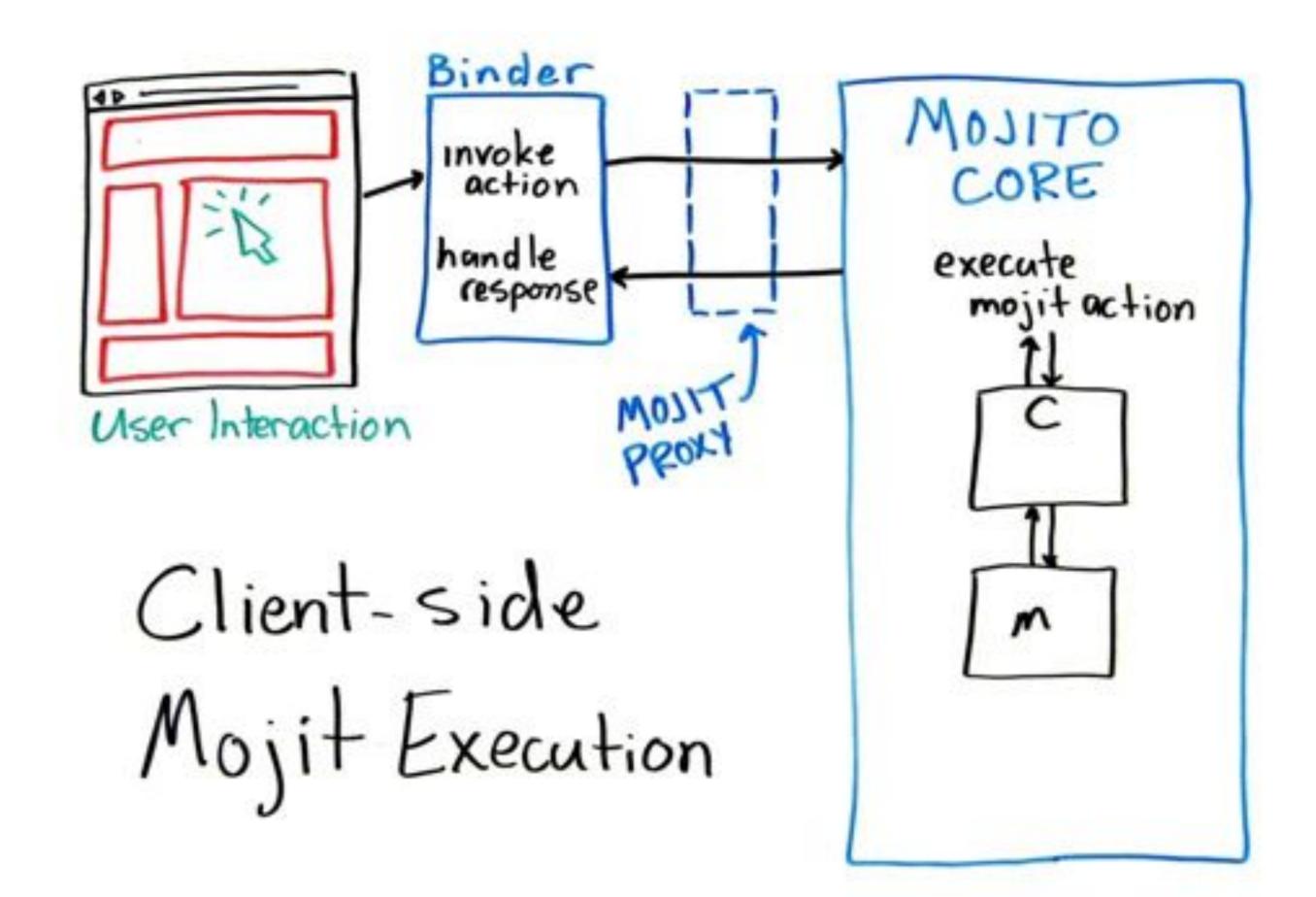
- each view has its own binder
- -given a DOM node to apply U1 event listeners
- interacts with Mojito Client runtime through a proxy

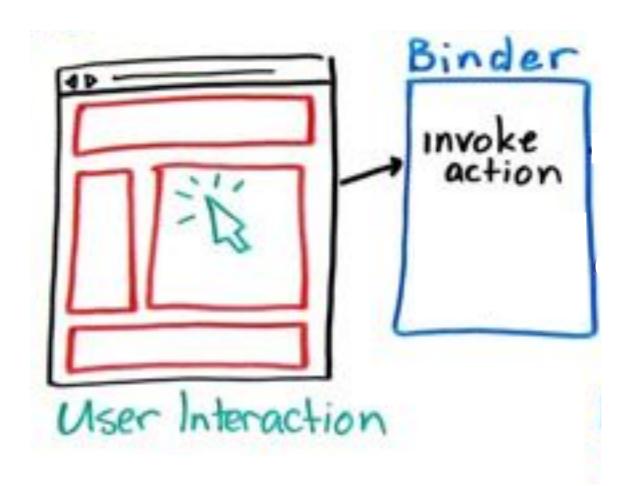


Client-side Mojit Execution

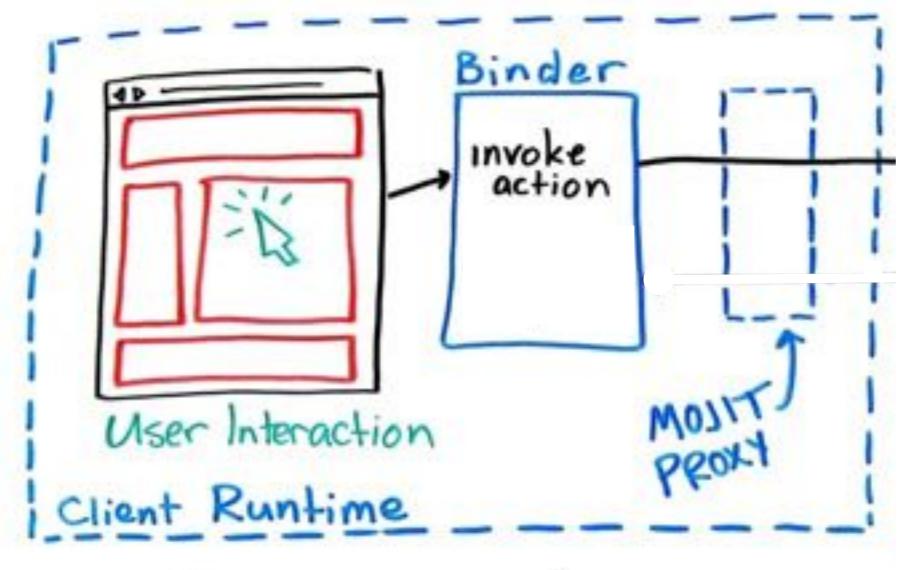




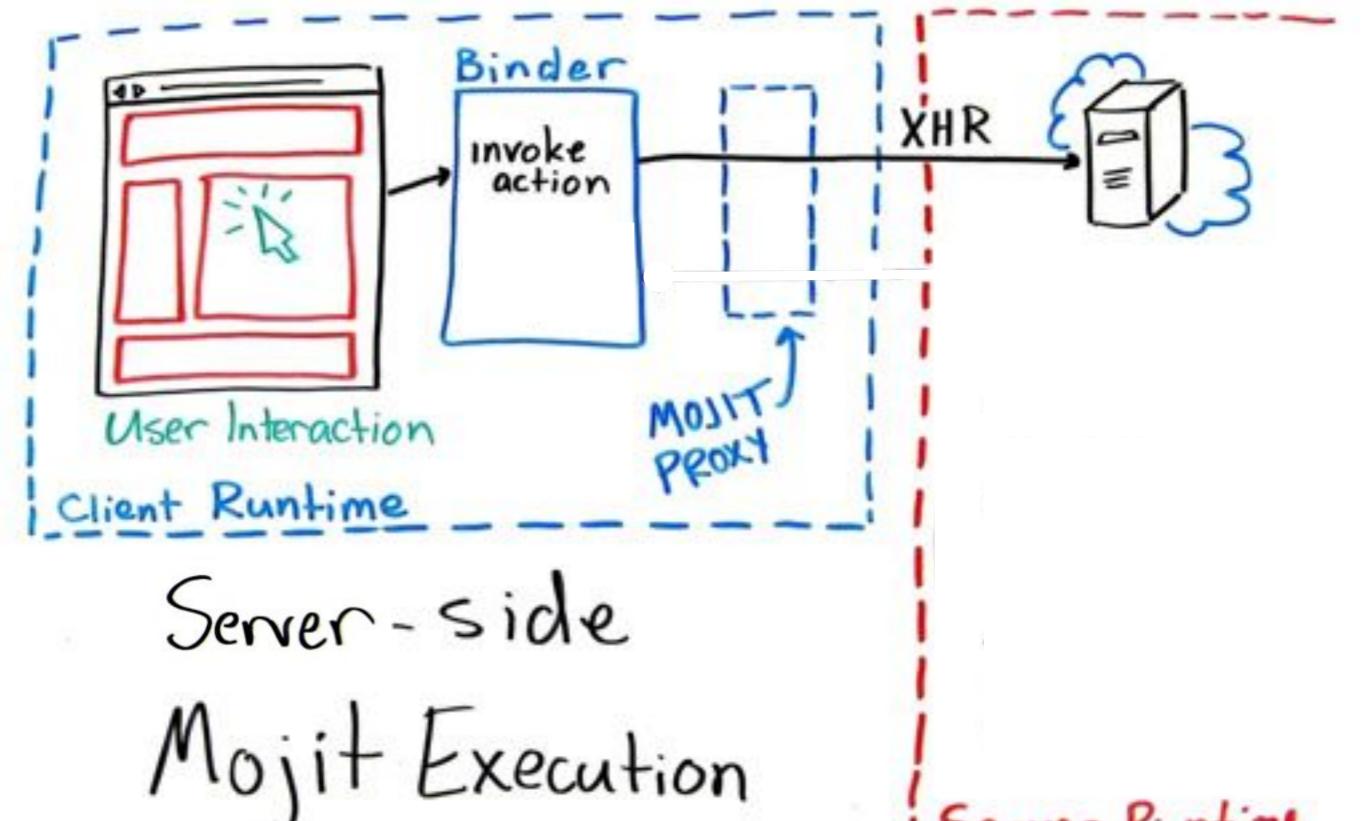




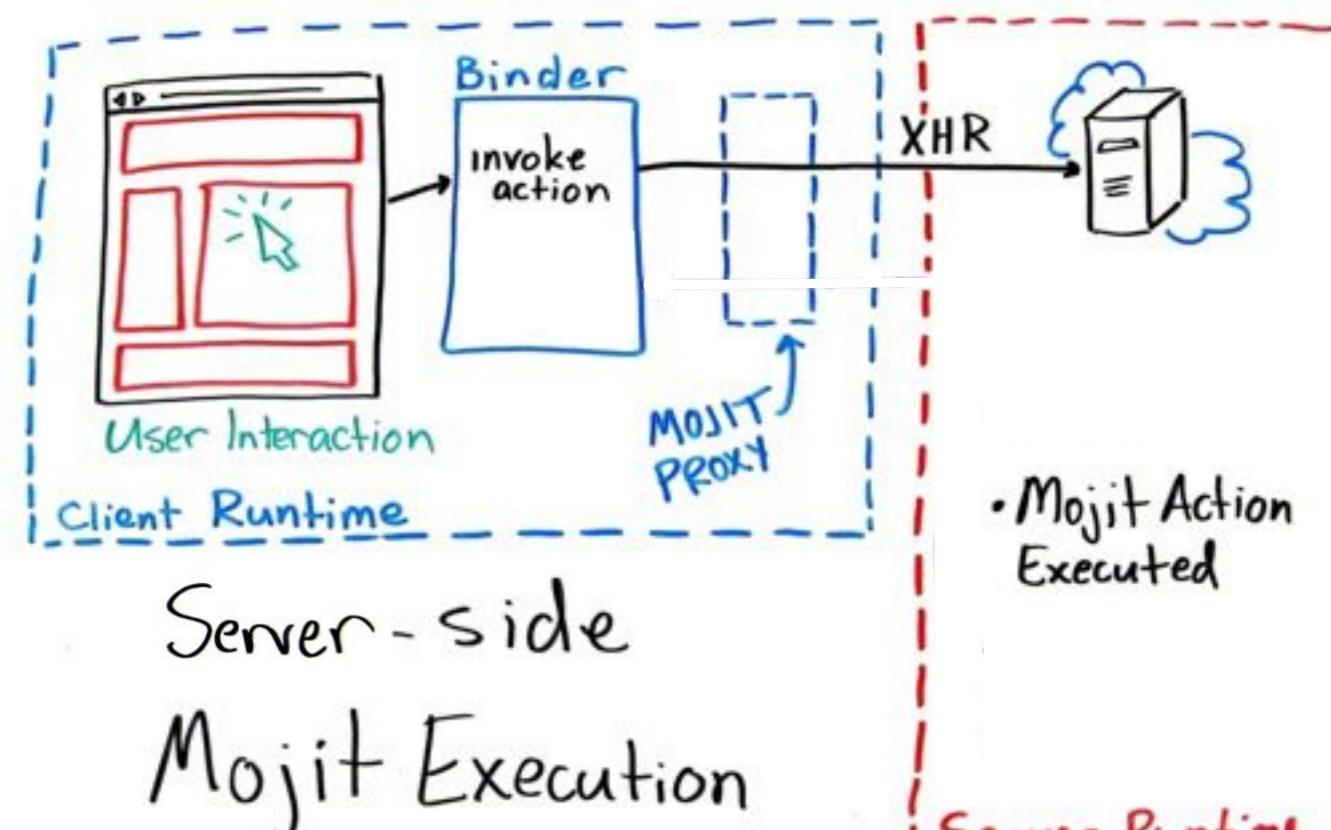
Server-side Mojit Execution



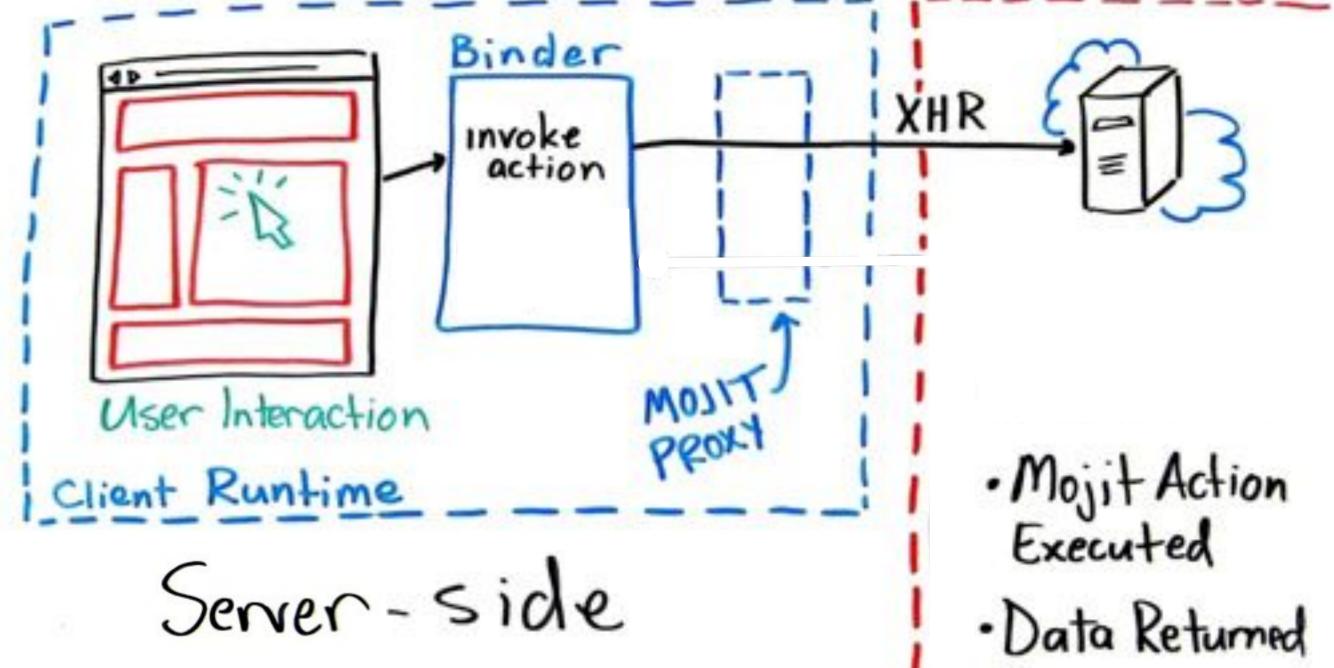
Server-side Mojit Execution



Server Runtime



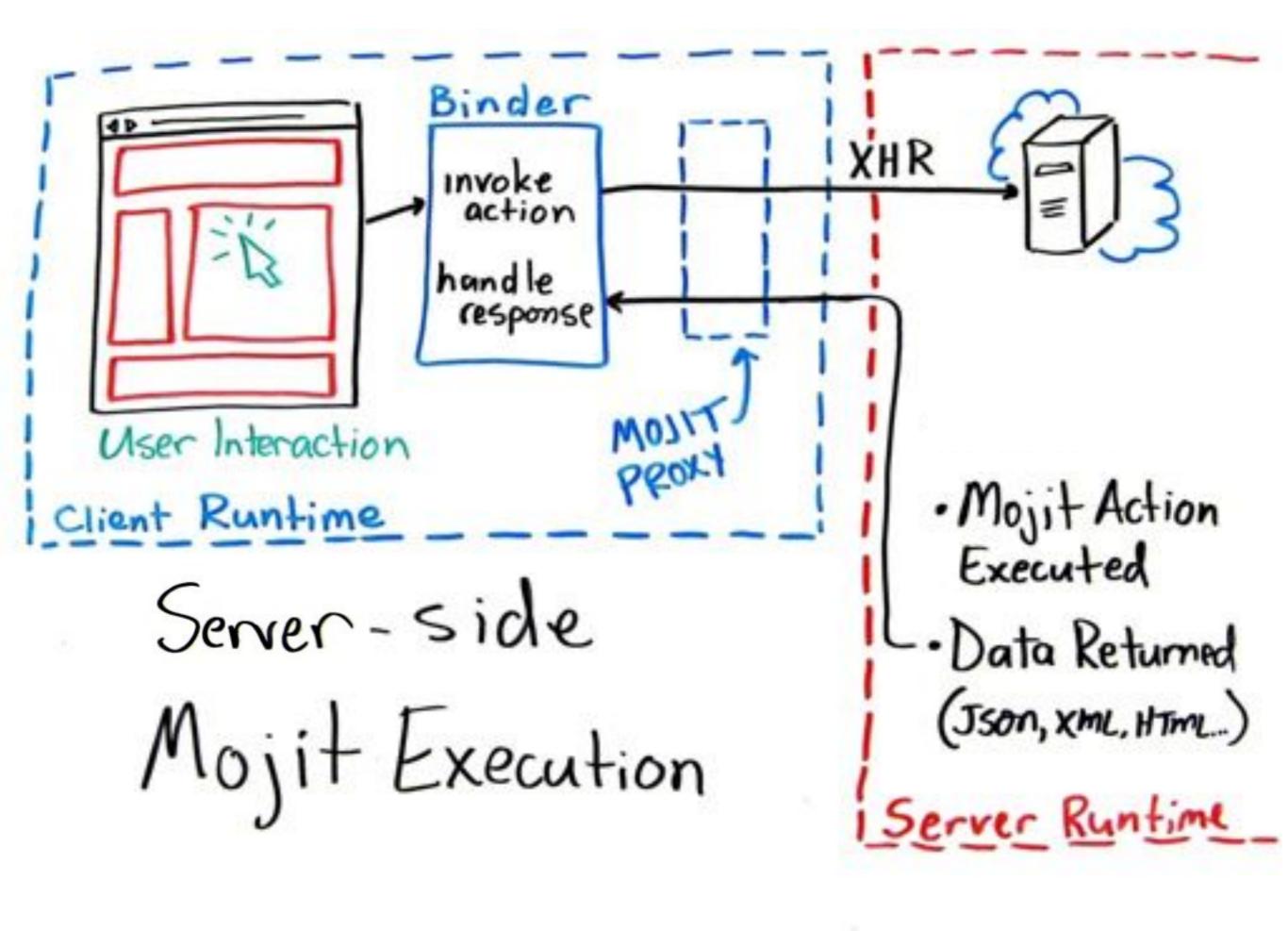
Server Runtime



Mojit Execution

·Data Returned (Json, XML, HTML...)

Server Runtime

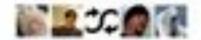




This week our node.js stack beat PHP on all scales. No prototype, production quality and soon to be seen in the wild. #hooray

17 Sep via Mobile Web 🙀 Unfavorite 🖘 Undo Retweet 🦘 Reply

Retweeted by vincicat and 5 others



```
autolood/rest.common.js
                                 Loaded: /Users/mtaylor/dev/yahoo/cocktails/mojito/trunk/source/lib/
[YUI-INFO] (1316322583095) get
app/autoload/rest.common.js
[YUI-INFO] (1316322583095) louder:
                                   attempting to load ycb, /Users/mtaylor/.node_libraries/.npm/yui3
core/3.3.0/package/build/
[YUI-INFO] (1316322583095) get:
                                 URL: /Users/mtaylor/dev/yahoo/cocktails/mojito/trunk/source/lib/app
autoload/ycb.common.js
[YUI-INFO] (1316322583098) get: Loaded: /Users/mtaylor/dev/yahoo/cocktails/mojita/trunk/source/lib/
app/autoload/ycb.common.js
[YUI-INFO] (1316322583098) loader finishing: success, yui_3_3_0_1_13163225819981, mojito-pe
rf,mojito,mojito-util,yui-base,querystring-stringify-simple,array-extras,querystring-parse,mojito-ro
ute-maker mojito-view-renderer json-stringify,oop,parallel,event-custom,mojito-output-adapter-addon,
majito-meta-addon,majito-analytics-addon,majito-assets-addon,majito-params-addon,majito-composite-ad
don, majita-config-addon, majita-http-addon, majita-cookie-addon, get, majita-laader, majita-deploy-addon,
intl-base, intl, lang/datatype-date, datatype-date, mojito-intl-addon, mojito-partial-addon, mojito-url-ad
dan, majita-carrier-addan, majita-device-addan, majita-i13n-addan, majita-yea-addan, majita-yek-addan, maj
ito-yiv-addon,mojito-mu,mojito-action-context,mojito-controller-context,mojito-resource-store-adapte
r,mojito-dispatcher,mojito-logger,mojito-test,nodejs-dom,event-base,dom,node-base,dom-style-ie,node
style gueue promote datatype xml io io nodejs mojito rest-lib ycb
[WARN] (1316322583171) months/yes-addon: YCA was not found
        (1316322583171) mojike yee addon: SKIPPED ActionContext addon "yea"
[INFO]
       (1316322583180) moji to yek-addan. YCK was not found
WARN
[INFO] (1316322583180) most to yek addon: SKIPPED ActionContext addon "yek"
[DEBUG] (1316322583371) Mojito HTTP Server initialized in 1597ms.
```

Mojito started "strangeloop" on http://localhost:8666/

## In Summary

One codebase, Two runtimes

-> 100% Java Script

# In Summary

- One codebase, Two runtimes
- -> 100% Java Script
- Soon to be OPEN SOURCE!

## Contact Info

Matt Taylor
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@rhyolight