cljs + gui

simplicity yields possibilities

slides and code online (at github)

the things I dare to build thanks to clojurescript!

guis are nice, programming them not so

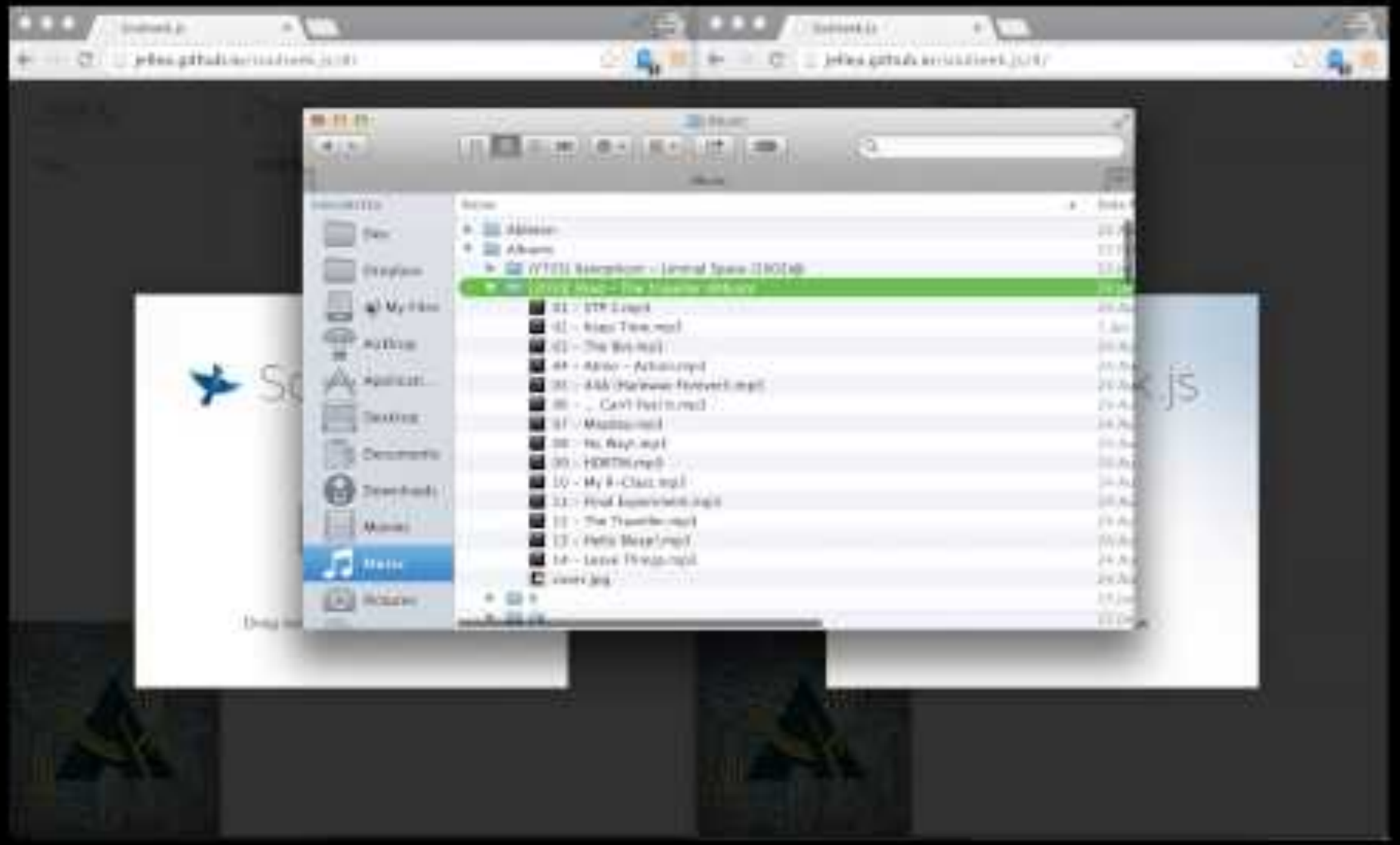

Dave Chenell
@davechenell
Follow
guys i just invented the best programming language
2
3
4 Machine,
5
6 Pls make website,
7
8 all responsive like,
9 w/ BIG pictures ooo,
10 use my fav fonts,
11 also fancy menus with whooosh on,
12 load fast pls
13
14 Thanks,
15 Human
16
17 PS no bugs :)
18
19
RETWEETS
1,439
FAVORITES
1,248

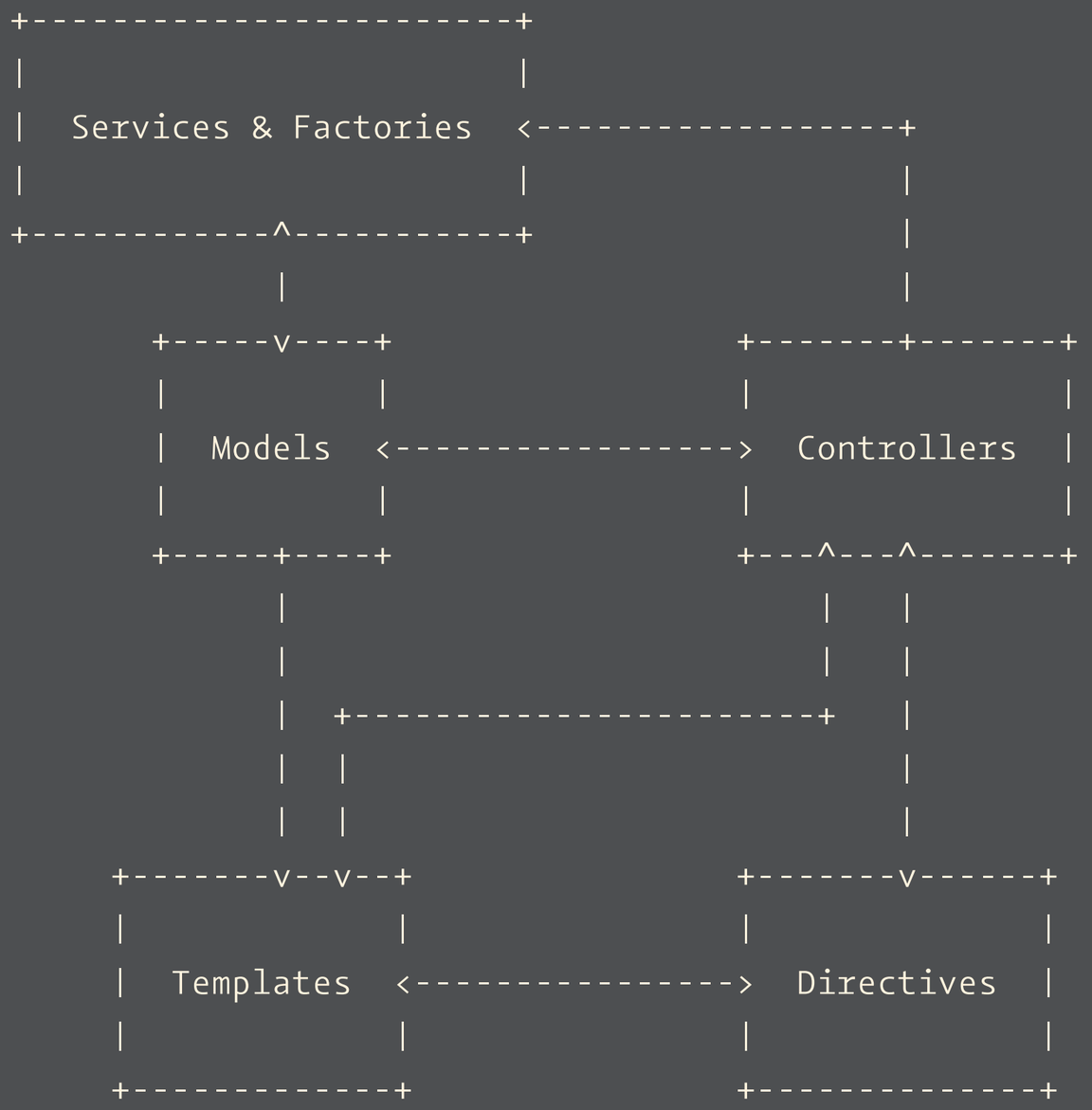
introducing:
the horror called state

2012: soulseekjs

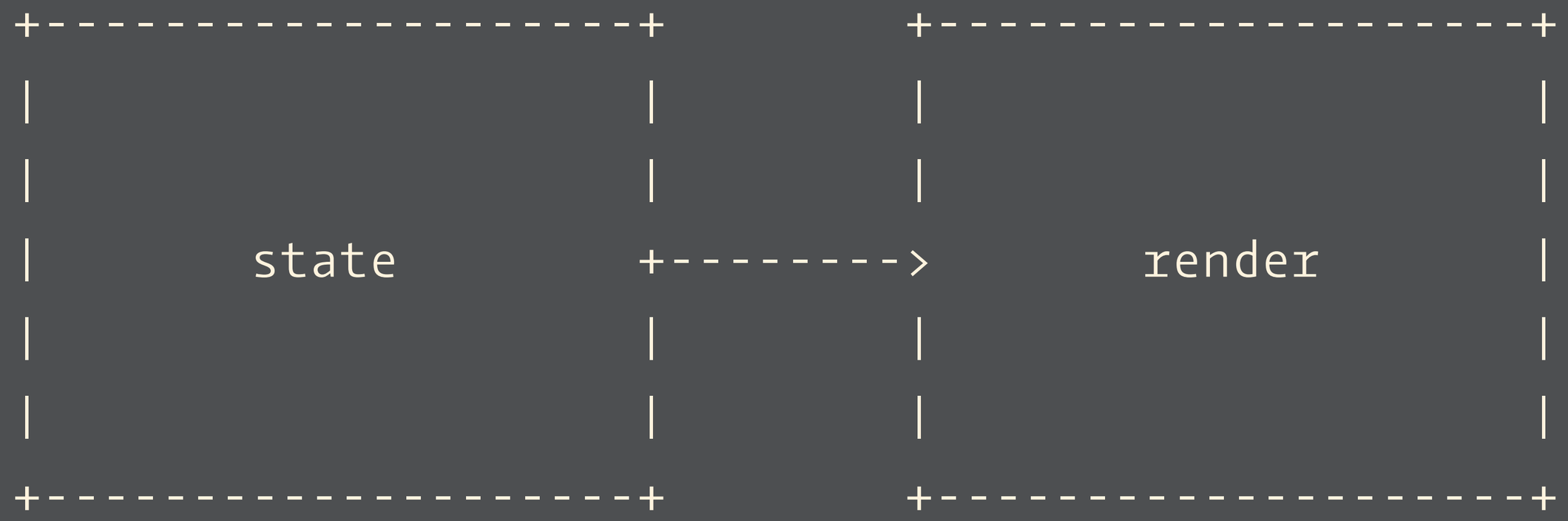
a p2p filesharing web app.

angularjs, yuk!




Services & Factories
Models
Controllers
Templates
Directives

wouldn't it be great if...



2014: soulseekcljs

clojurescript: om, yay!

free goodies

- hotswap code
- time travelling
- introspection
- portable state

hotswap code

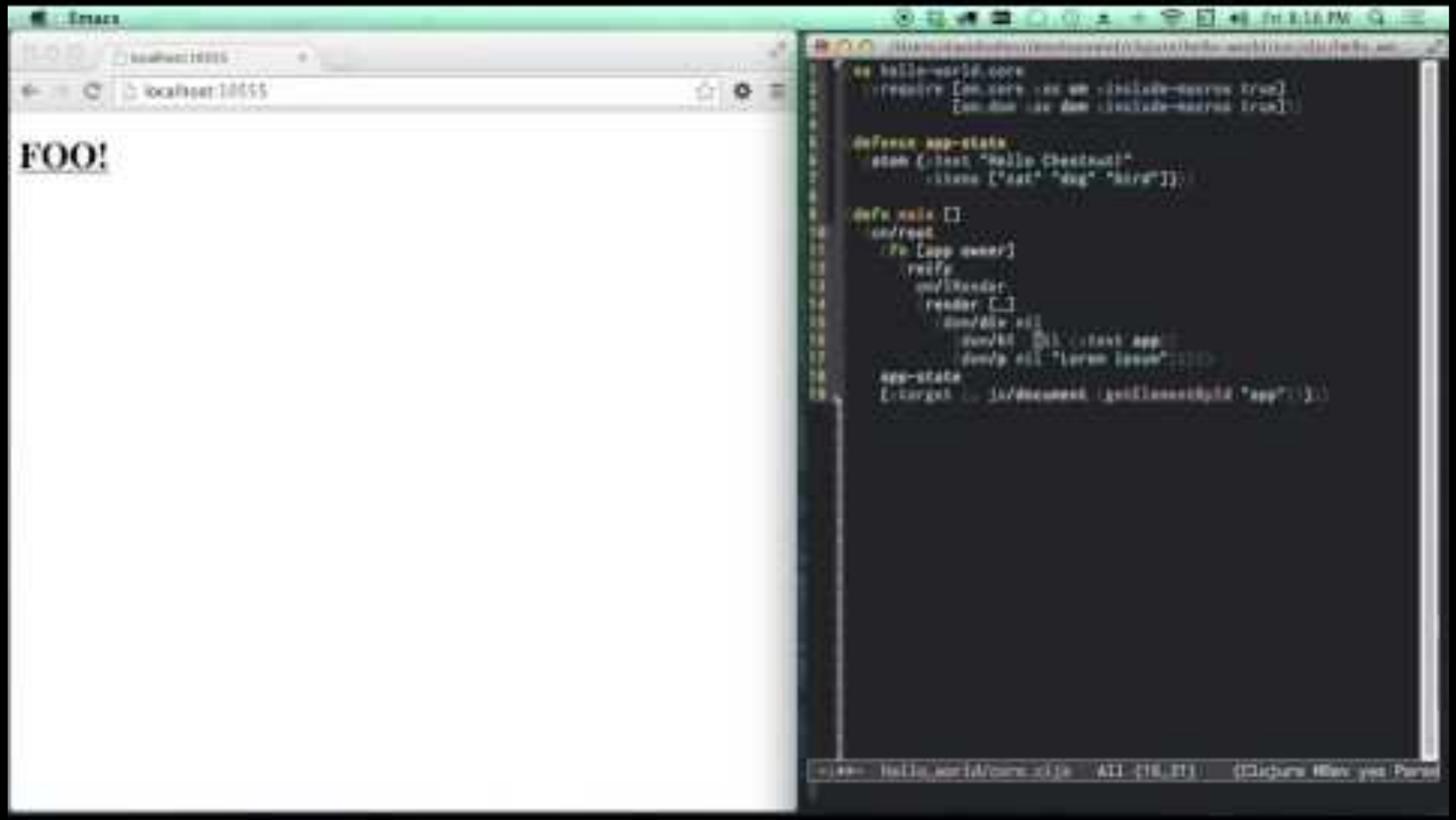
being able to manipulate and rerender.

demo: chestnut by Arne Brasseur[1] or tenzing by Martin Klepsch

demo: quilfiddle by me[2]

[1] Chestnut Video Chestnut repo — Tenzing Repo

[2] QuilFiddle Repo


Emacs
localhost:10555
FOO!

time travelling

being able to traverse back and forth in time aka. undo/redo.

demo: om todomvc by David Nolen[3]
demo: goya by Jack Schaedler[4]

[3] Om TodoMVC App Undo src

[4] Goya App Repo

```clojure
(def app-history (atom [@app-state]))

(add-watch app-state :history
  (fn [_ _ _ n]
    (when-not (= (last @app-history) n)
      (swap! app-history conj n))
    (set! (.-innerHTML (.getElementById js/document "message"))
      (let [c (count @app-history)]
        (str c " Saved " (pluralize c "State"))))))

(aset js/window "undo"
  (fn [e]
    (when (> (count @app-history) 1)
      (swap! app-history pop)
      (reset! app-state (last @app-history)))))
```

source: http://swannodette.github.io/2013/12/31/time-travel/

introspection

see what data runs under the hood/gui.

demo: tetris by Shaun Le Bron[5]
demo: devcards by Bruce Hauman[6]

[5] Tetris Slides

[6] Devcards Blogpost

portable state

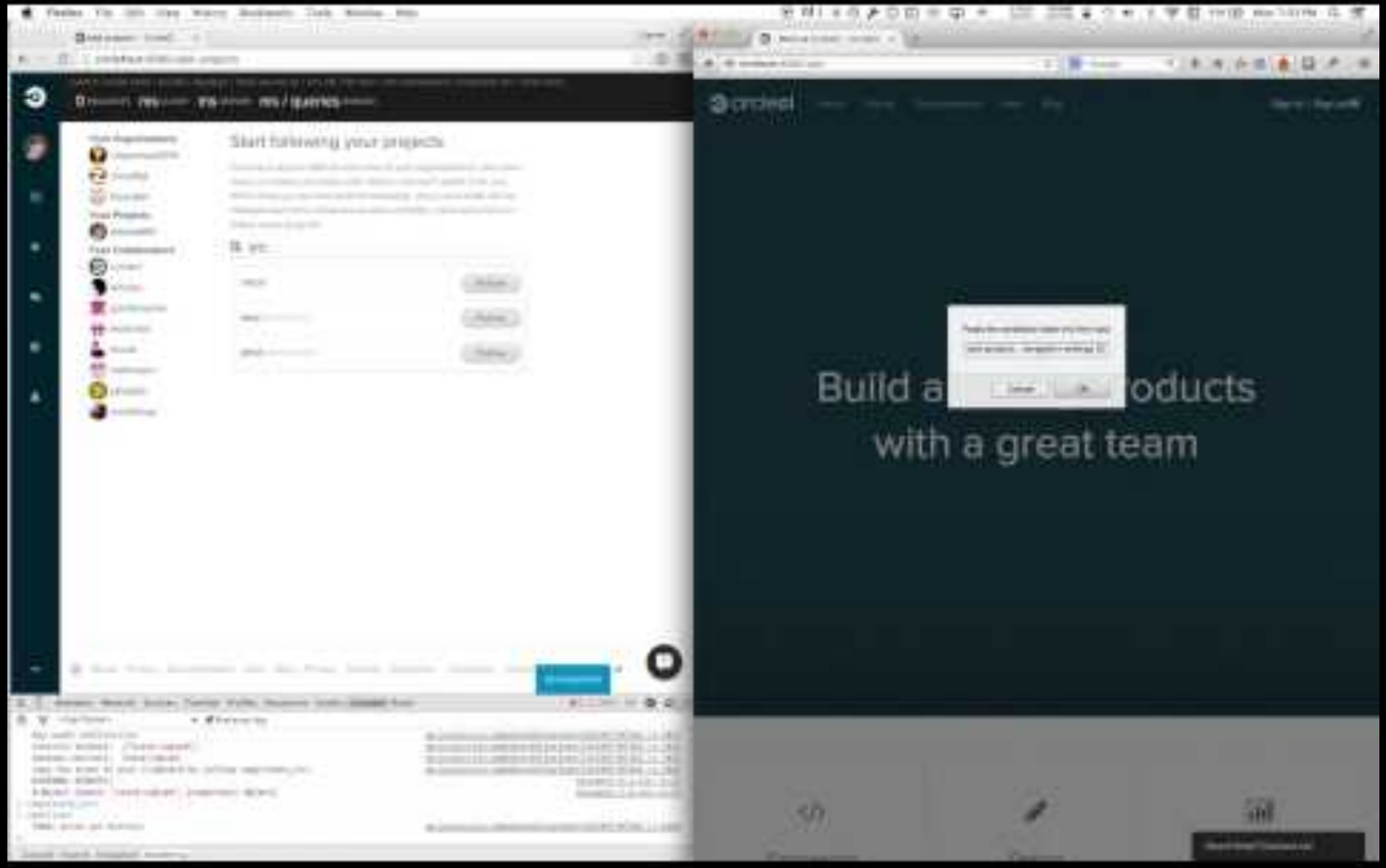
being able to copy paste state.

demo: spagetthi by me[7]

demo: circleci by Circle CI[8]

[7] spaggethi src

[8] circle ci video


Start following your projects
Build a
oducts
with a great team

```clojure
(defn focus-input [e app owner]
  (if (and (or (.-ctrlKey e) (.-metaKey e)) (not= (.-keyCode e) 86))
    (let [node (om/get-node owner)]
      (set! (.-value node) (t/write w @app))
      (.select node))))

(defn paste-state [app owner]
  (let [input-data (.-value (om/get-node owner))]
     (om/update! app (t/read r input-data))))

(defcomponent clipboard [app owner]
  (did-mount [_]
    (.listen goog/events js/document "keydown" #(focus-input % app owner)))
  (render [_]
          (html [:input {:type "textarea" :style {:opacity 0}
                         :onPaste (fn [] (js/setTimeout #(paste-state app owner) 30))}])))
```

source: https://github.com/jellea/spaghetti/blob/master/src/cljs/spaghetti/core.cljs#L27-L42

other advantages

- compiler
- simple syntax
- core.async
- static typing

om + chestnut (lein)

reagent + tenzing (boot)

Conclusion:

Want less headaches? Go Clojurescript!

questions? thanks.

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