



Watup, could you pick
up this thing for me
NEARBY?

HOME

NEARBY



After **20** metres



After **10** metres



After **5** metres

Destination

HOME

NEARBY

➡ After **20** metres

⬅ After **10** metres

➡ After **5** metres

Destination



You have to check out
this **RESTAURANT** on
your trip abroad!

HOTEL

RESTAURANT

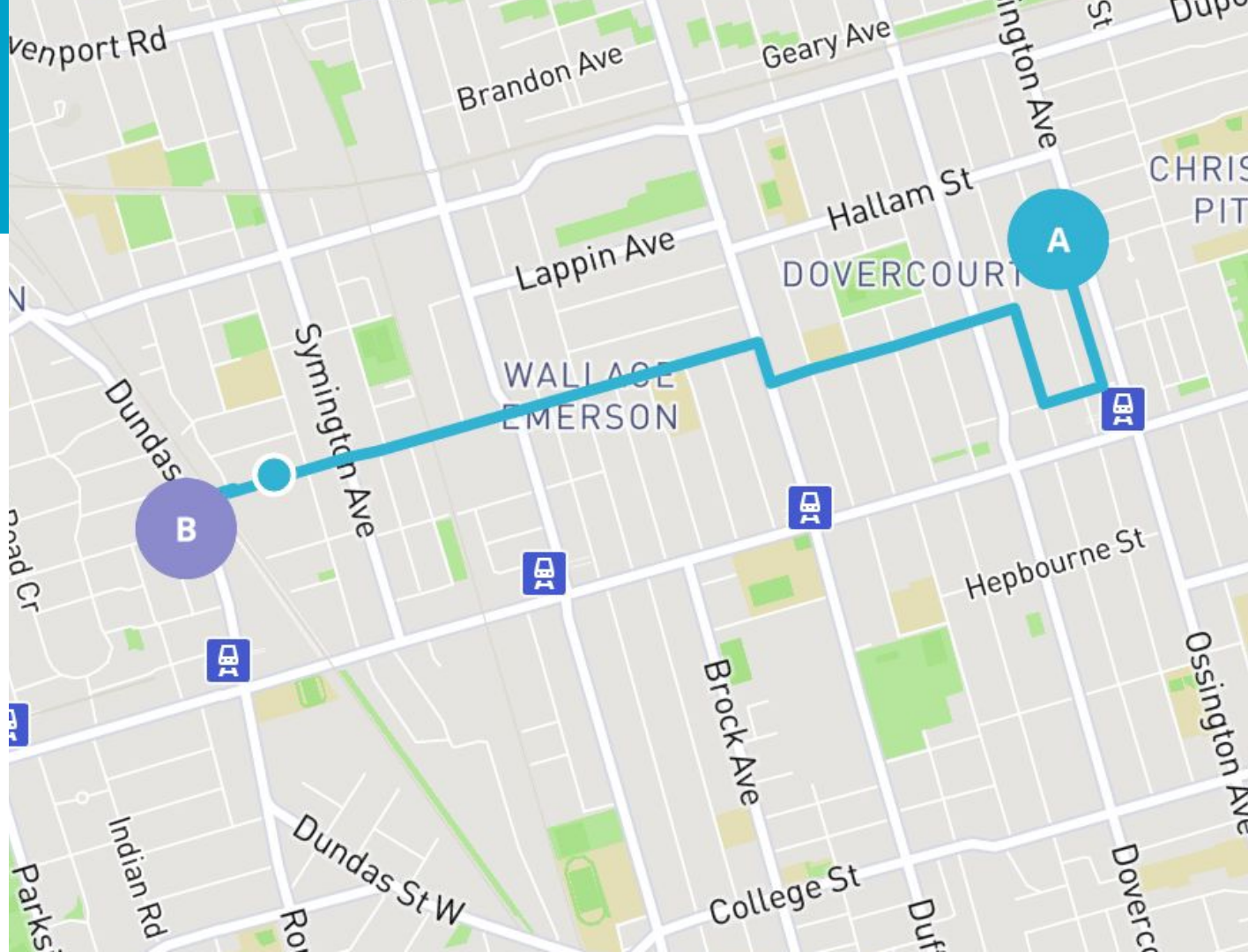
- ➔ After **20** metres
- ← After **10** metres
- ← After **100** metres
- ➔ After **28** metres
- ➔ After **5** metres
- ← After **50** metres
- ← After **23** metres
- ➔ After **5** metres
- ← After **10** metres
- ➔ After **20** metres



HOTEL

RESTAURANT

- ➡ After 20 metres
- ➡ After 10 metres
- ➡ After 100 metres
- ➡ After 28 metres
- ➡ After 5 metres
- ➡ After 50 metres
- ➡ After 23 metres
- ➡ After 5 metres
- ➡ After 10 metres
- ➡ After 20 metres



HOTEL

RESTAURANT

➡ After 20 metres

⬅ After 10 metres

⬅ After 100 metres

IMPERATIVE

⬅ After 50 metres

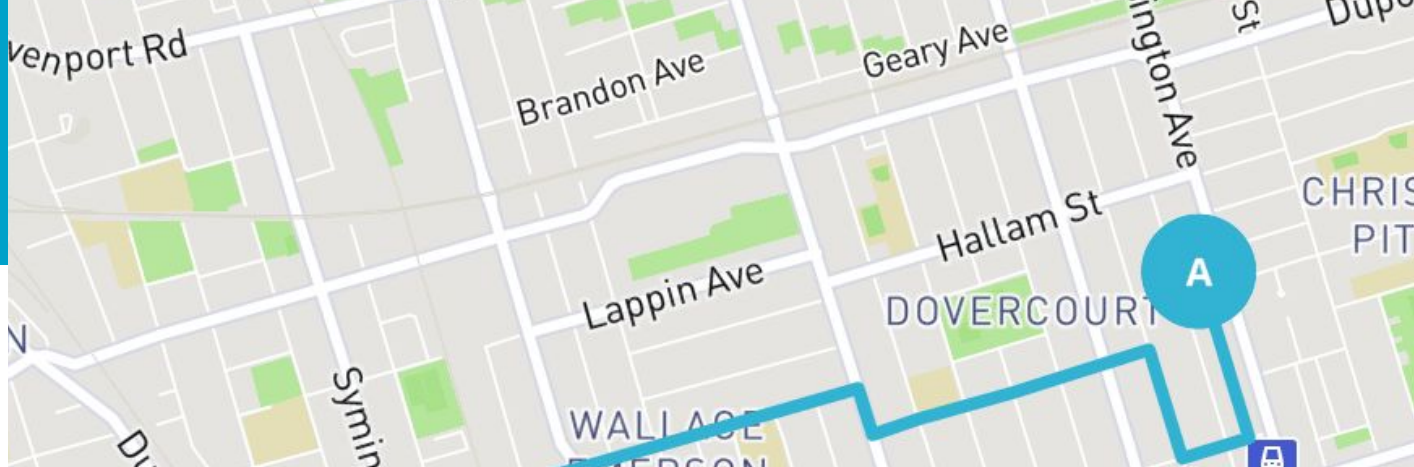
⬅ After 23 metres

➡ After 5 metres

⬅ After 10 metres

➡ After 20 metres

DECLARATIVE





Cerebral

Declarative **state** and **side**
effects management for popular
JavaScript frameworks

Stateful Component method

APPLICATION LOGIC

Mobx Action

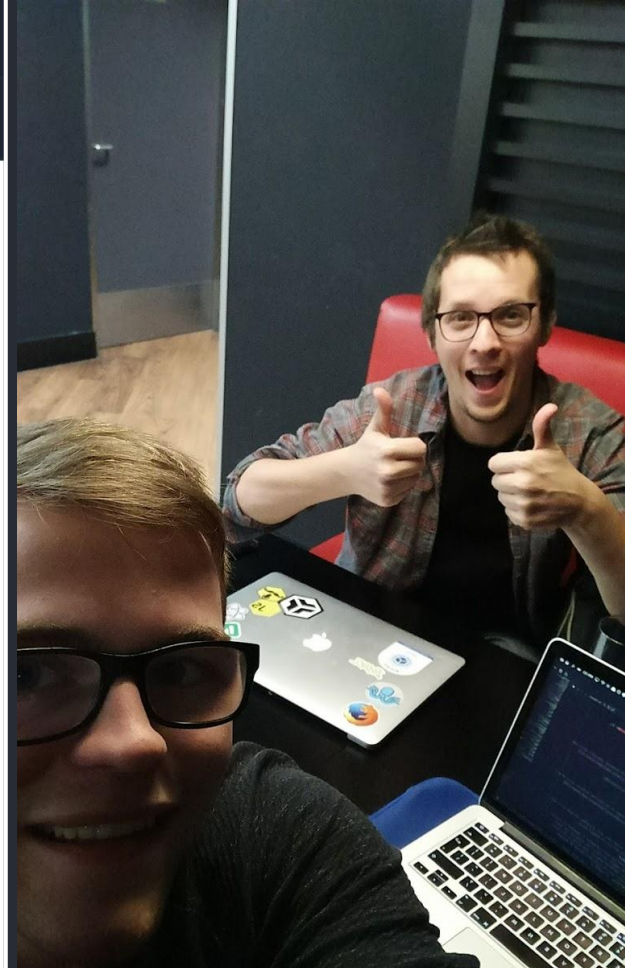
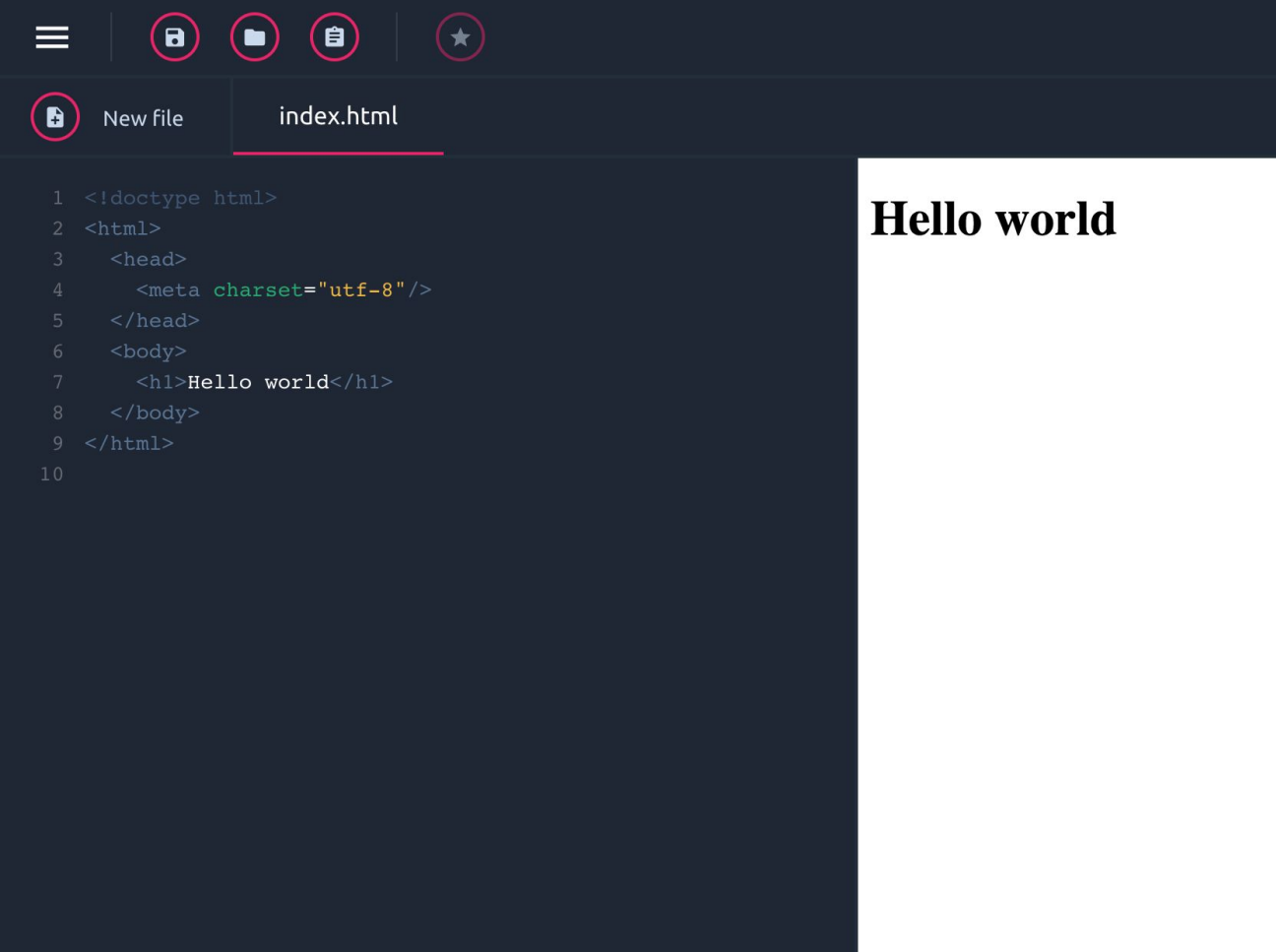
Redux Thunk/Reducer

Cerebral Signal

CodeSandbox

The online code editor for web applications





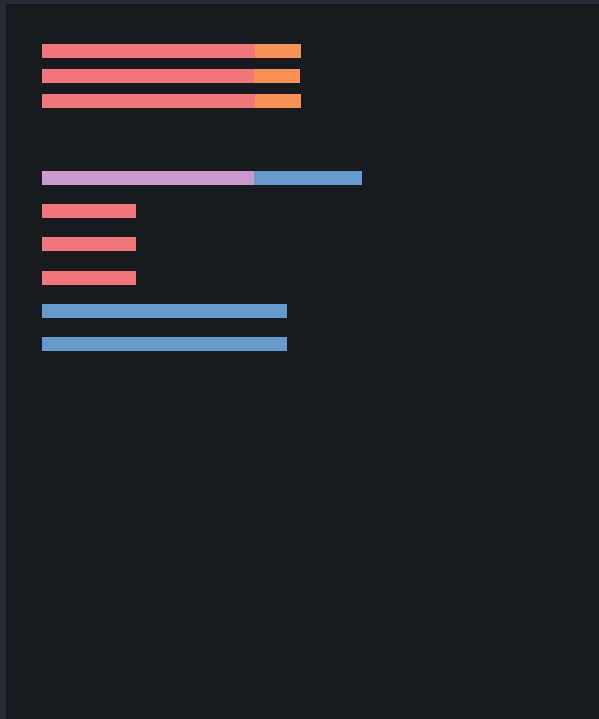


DEBUGGER

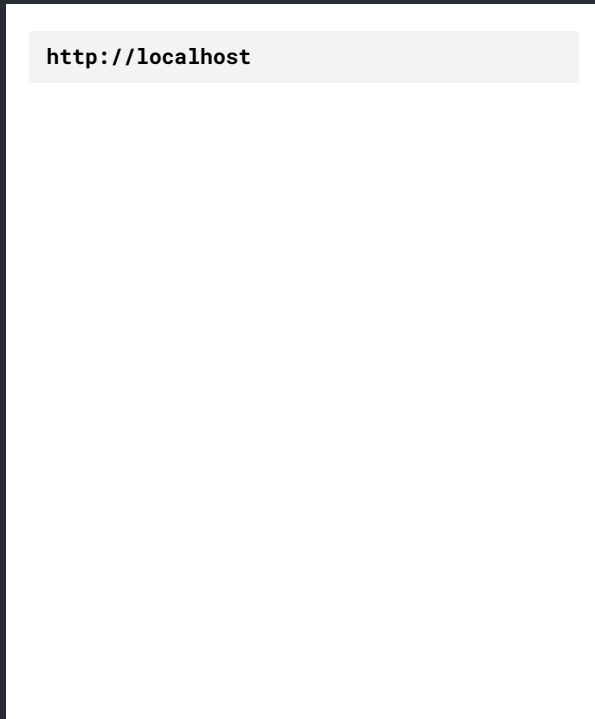
CODE

PROJECT

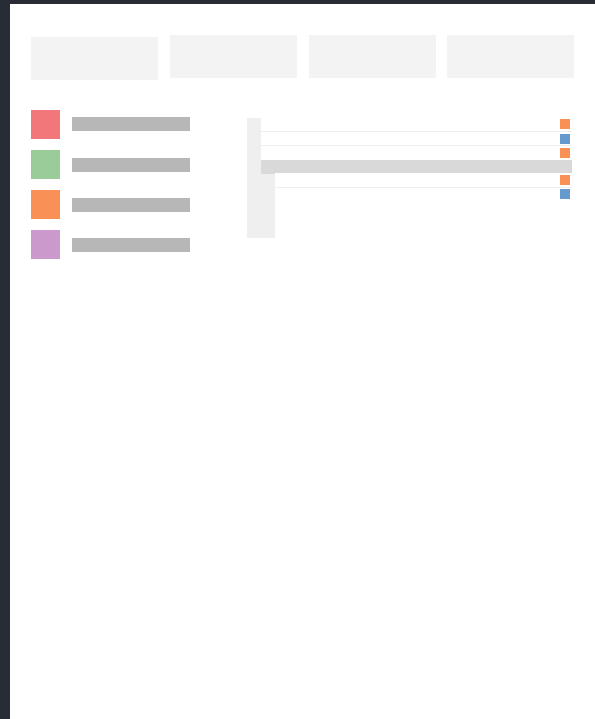
CODE EDITOR



BROWSER



COMPANION



sandboxChanged

21 state changes

9 side effects

3 files

store/sequences.js

store/actions.js

store/factories.js

10 files

pages/index.js

store/connection/actions.js

store/connection/reducer.js

store/user/actions.js

store/user/reducer.js

store/api/actions.js

pages/Sandbox/index.js

store/entities/sandboxes/actions/index.js

store/entities/sandboxes/reducer.js

store/entities/sandboxes/entity.js

sandboxChanged

21 state changes

9 side effects

3 files

store/sequences.js

store/actions.js

store/factories.js

10 files

pages/index.js

store/connection/actions.js

store/connection/reducer.js

store/user/actions.js

store/user/reducer.js

store/api/actions.js

pages/Sandbox/index.js

store/entities/sandboxes/actions/index.js

store/entities/sandboxes/reducer.js

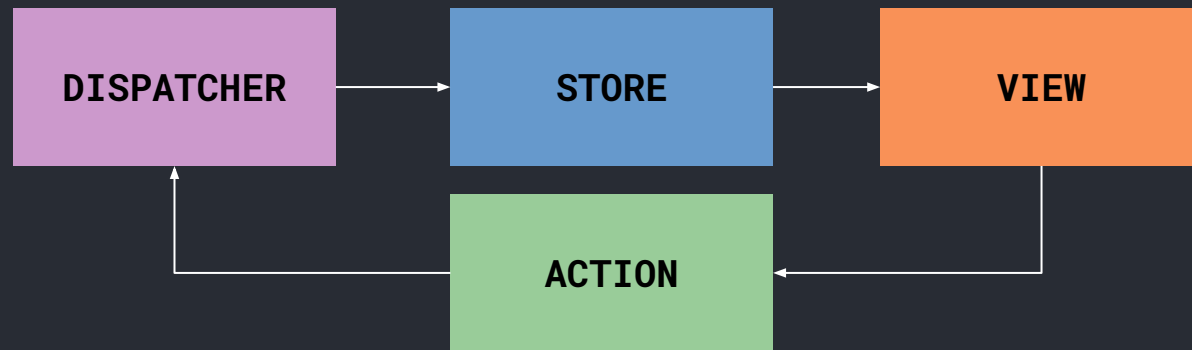
store/entities/sandboxes/entity.js

```
export const loadSandbox = factories.withLoadApp([
  set(state`editor.error`, null),
  when(state`editor.sandboxes.${props`id`}'),
  {
    true: [
      set(state`editor.currentId`, props`id`),
      set(props`sandbox`, state`editor.sandboxes.${props`id`}'),
      actions.setCurrentModuleShortid,
      actions.setMainModuleShortid,
      actions.setInitialTab,
      actions.setUrlOptions,
      actions.setWorkspace,
    ],
    false: [
      set(state`editor.isLoading`, true),
      set(state`editor.notFound`, false),
      set(state`editor.changedModuleShortids`, []),
      actions.getSandbox,
    ],
    success: [
      set(state`editor.sandboxes.${props`sandbox.id`}`, props`sandbox`),
      set(state`editor.currentId`, props`sandbox.id`),
      actions.setCurrentModuleShortid,
      actions.setMainModuleShortid,
      actions.setInitialTab,
      actions.setUrlOptions,
      actions.setWorkspace,
      ensurePackageJSON,
    ],
    notFound: set(state`editor.notFound`, true),
    error: set(state`editor.error`, props`error.message`),
  },
],
  set(state`editor.isLoading`, false),
]);
```


Lessons learned refactoring Codesandbox.io from Redux to Cerebral

<https://medium.com/@christianalfoni/lessons-learned-refactoring-codesandbox-io-from-redux-to-cerebral-40e9a5646281>

FACEBOOK FLUX



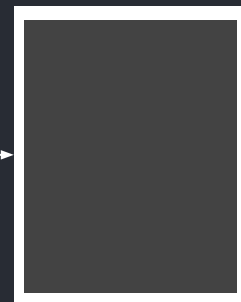
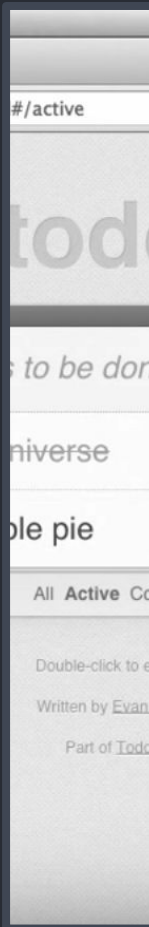
FACEBOOK FLUX

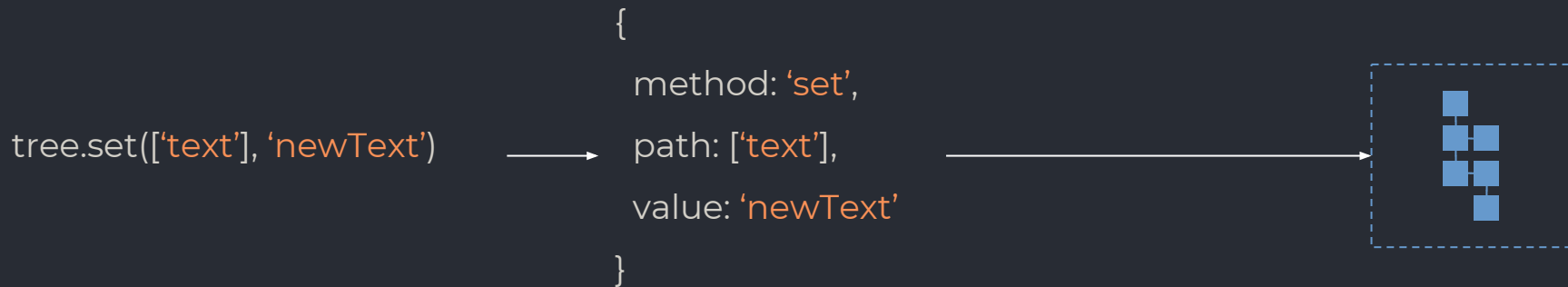
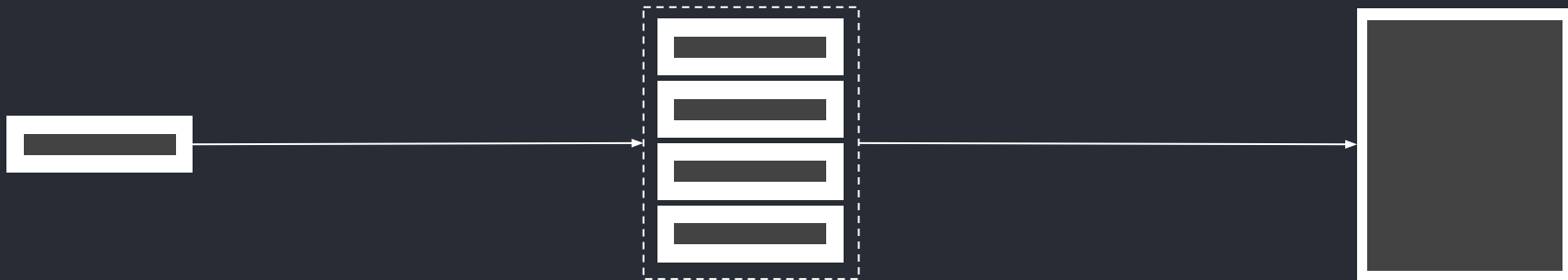
BAOBAB

ELM

DB INSIDE OUT

DIS





May 8th
2015

Immutable-store gets signals and a time machine

<https://www.youtube.com/watch?v=Txpw4wU4BCU&t=127s>

May 9th
2015

Cerebral first commit

July 2nd
2015

Live React: Hot Reloading with Time Travel at react-europe 2015

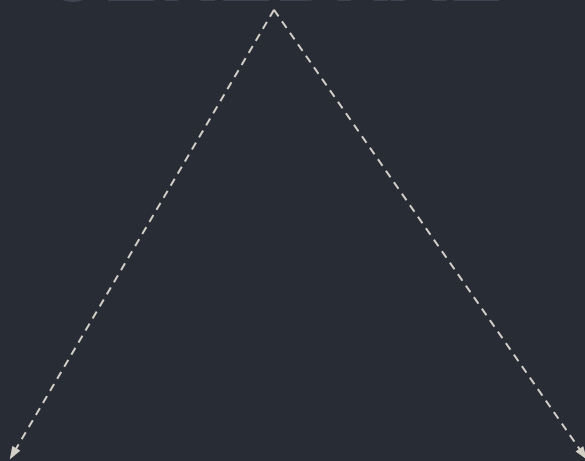
<https://www.youtube.com/watch?v=xsSnOQynTHs>



CEREBRAL



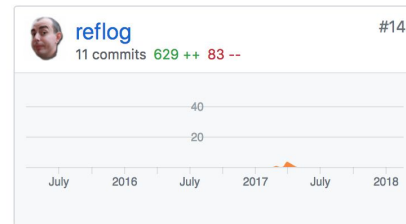
FUNCTION-TREE

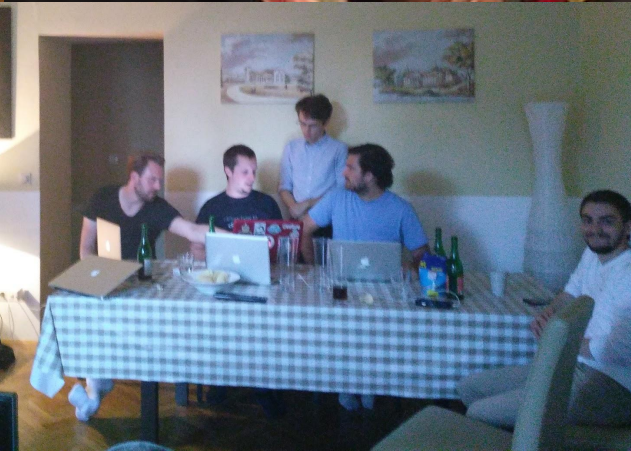


<https://localhost>

ADDRESSBAR

67 CONTRIBUTORS









www.cerebraljs.com

DISPATCH

TRANSACTION

MUTATION

TREE



