INITIAL ELM NETHERLANDS

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INTRODUCTION

- Elm and friends
- Build a community
- Adjust to the needs
- Have some fun!

ELM NETHERLANDS + ELM AMSTERDAM

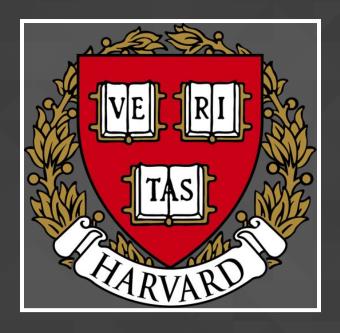
TODAY

WHAT?

BUZZWORD BINGO

- Functional
- Immutable
- Statically typed
- Strongly typed
- Pure
- Memoization
- Virtual DOM

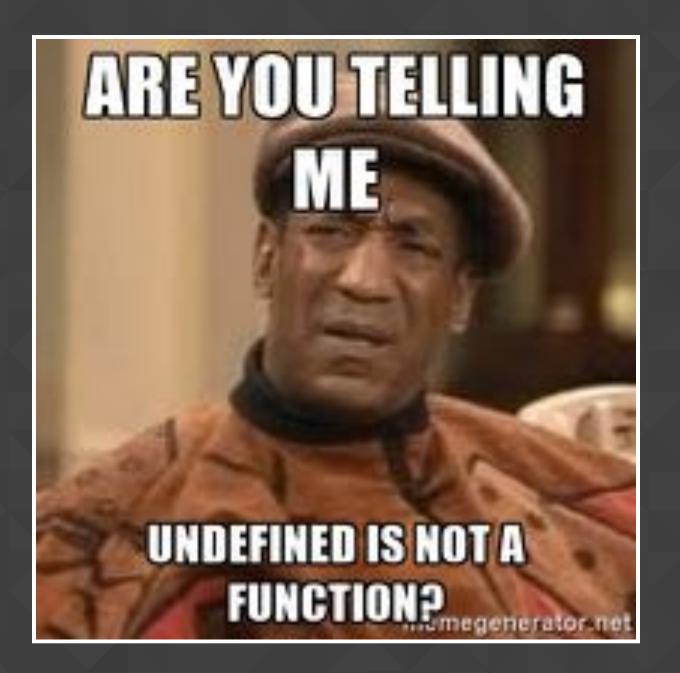






noredink

WHY?





Runtime exceptions reduced to (nearly) zero

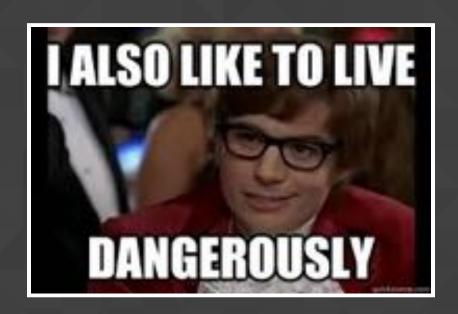
Batteries included

- The Elm Architecture (TEA)
- No HTML and JS, just Elm

Designed to solve common problems.

- Package manager
- Formatting

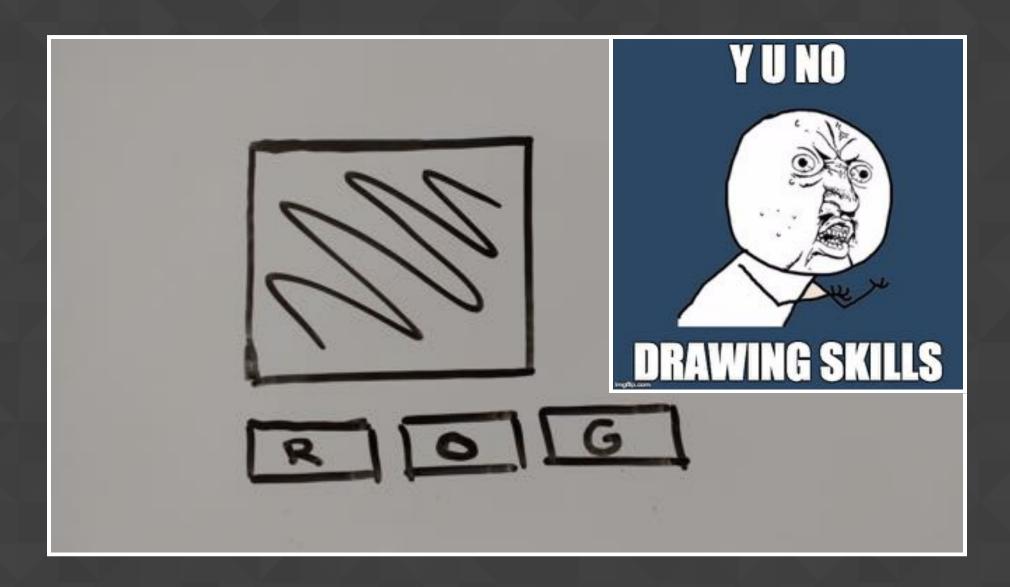
We can assume certain things from our software, thus it would require less testing.



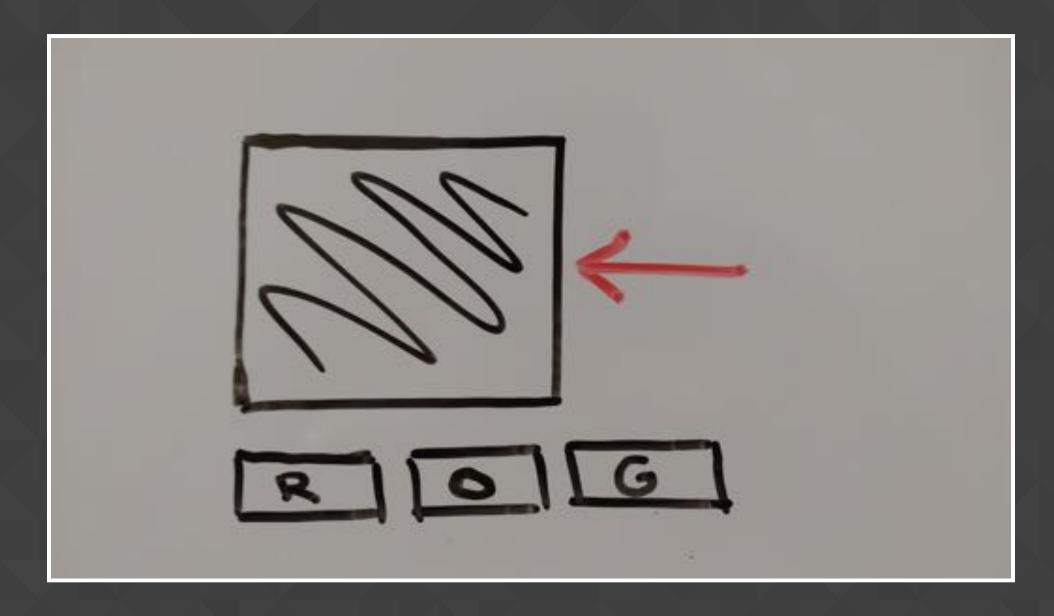
DEMO

We are going to build a simple application using The Elm Architecture

A TRAFFIC LIGHT

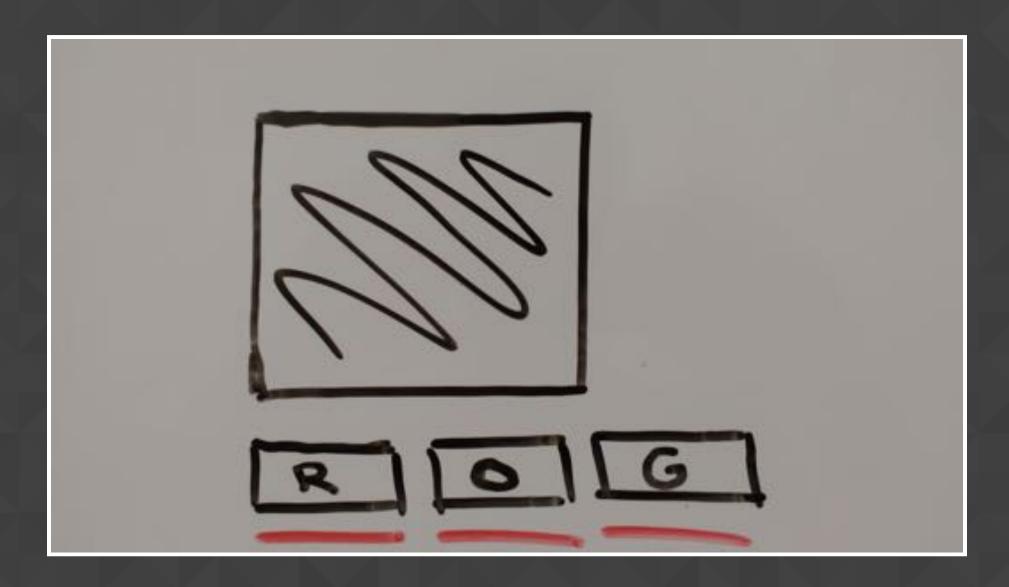


MODEL THE PROBLEM



MODEL THE PROBLEM

WHICH ACTIONS SHOULD I HANDLE?



WHICH ACTIONS SHOULD I HANDLE?

MODEL, VIEW AND UPDATE



INITIAL MODEL

model : Model

model =

Green

VIEW

UPDATE

```
update : Msg -> Model -> Model
update msg model =
    case msg of
        SetGreen ->
              Green
        SetOrange ->
              Orange
        SetRed ->
              Red
```



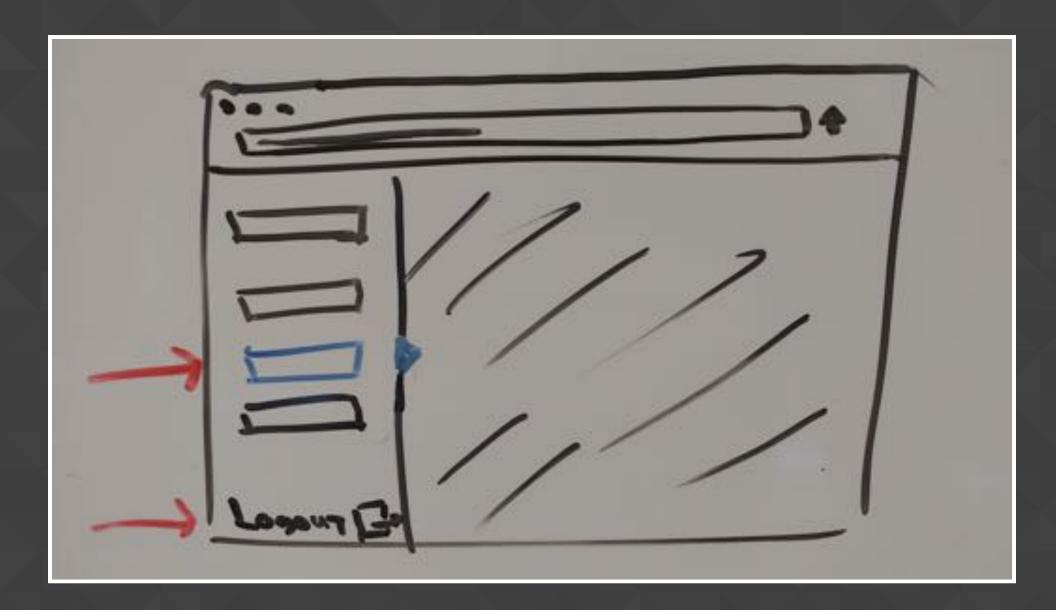


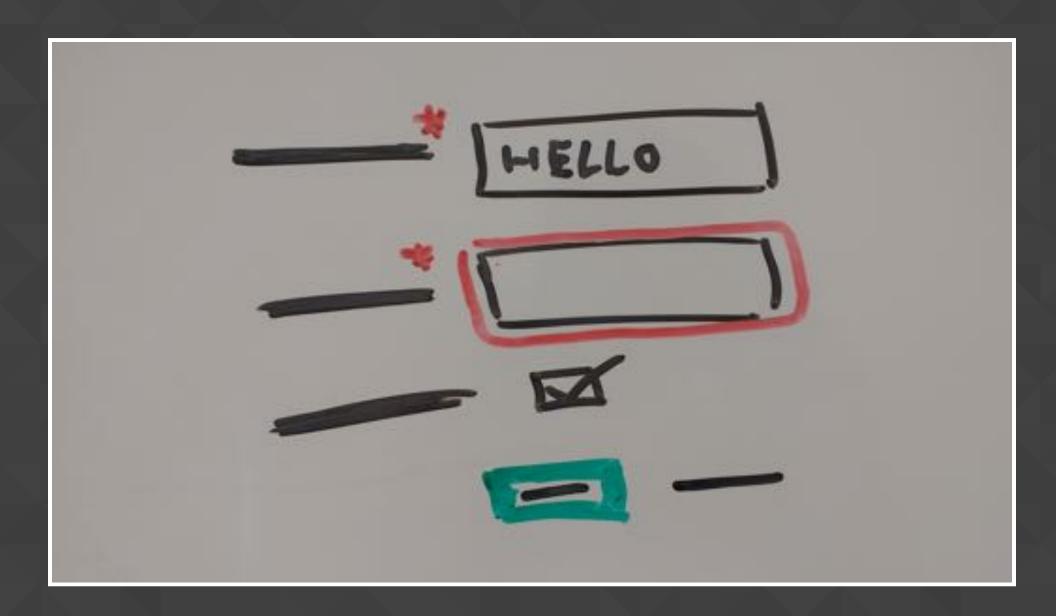


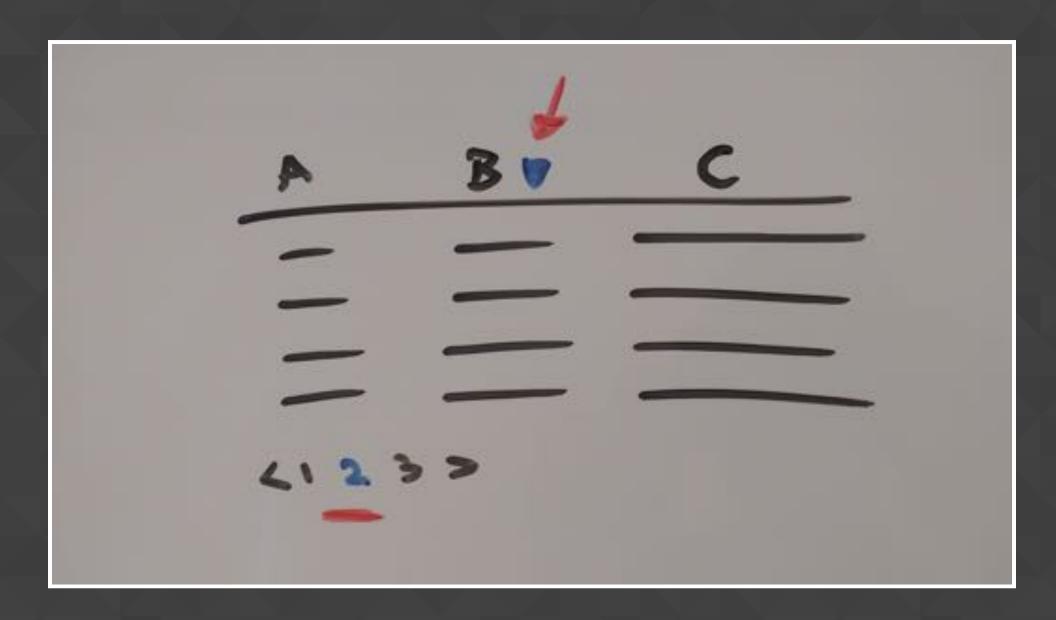
- Easy Safe to extend
- Reusable
- Purity enables property based testing
- Encapsulation

RECAP

- We cant break it, only implement the specs wrong
- It is modular
- Easy and safe to extend
- The Elm Architecture: model, view and update







'WHY NOT'

- 0.X -> 0.Y -> 0.Z
- Documentation may be scarce
- It must fit the model
- 'There is a library for that'

SOURCE

- http://elm-lang.org
- https://github.com/isRuslan/awesome-elm
- http://www.elmweekly.nl/
- Elm Lang Slack
- https://github.com/stil4m/elm-netherlands-meetup

QUESTIONS?

