

Elm: Functional front-end in practice

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Basic Syntax

```
-- single line comment
add: Int -> Int -> Int
add a b =
   a + b
five =
   add 2 3
hello : Int -> String
hello id =
    "Hello, " ++ (toString id) ++ "!"
```





Types Syntax

Tuple

(x, y)

Record

type alias SomeRecord =
 { x : String
 , y : Int
}

Union type





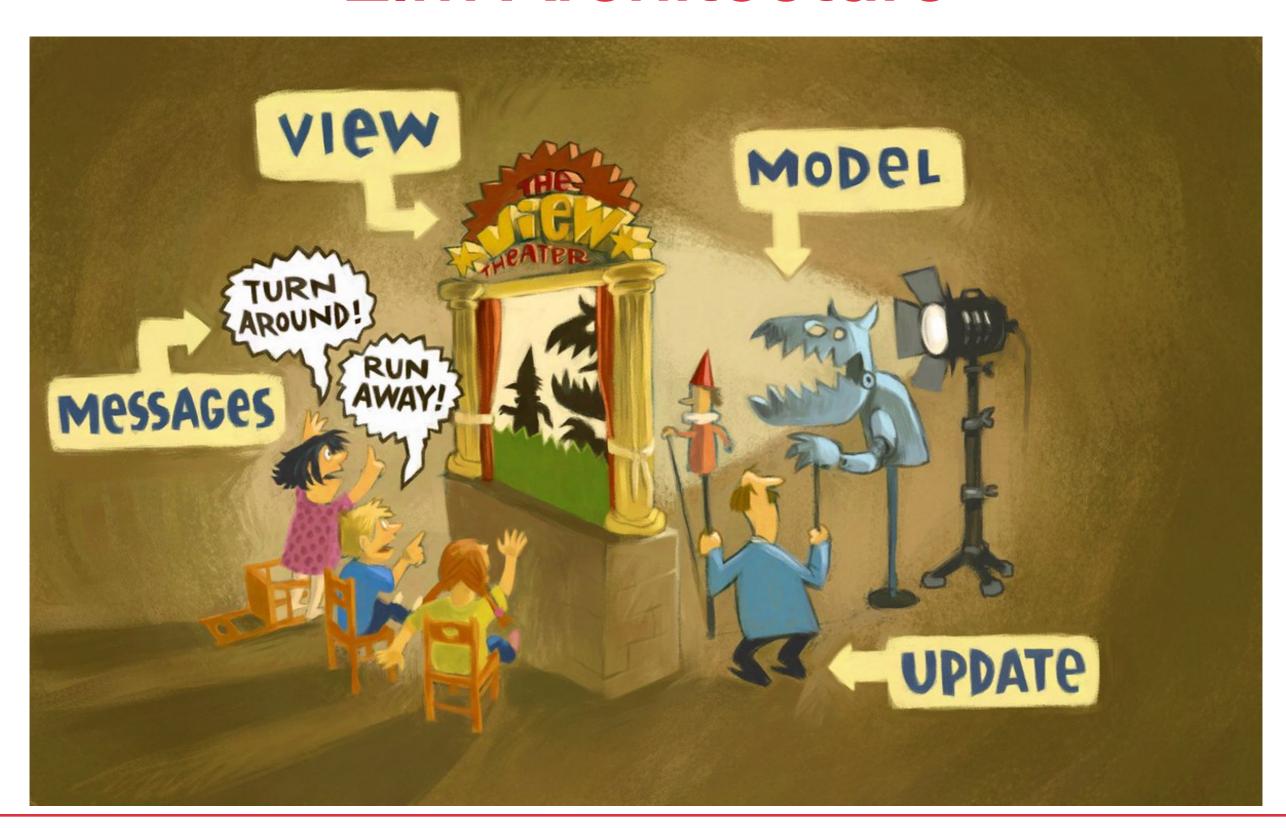
Demo plan

- Project setup
 - github.com/elm-prague/2018-05-23-mff-demo
- Elm Architecture
- Impossible State Impossible & HTTP





Elm Architecture







Making impossible states impossible

pick a country ▼	pick a city	•
3		





Making impossible states impossible

variant 1 type alias Model = { country : Maybe Country , city : Maybe City variant 2 type alias Model = { destination : Maybe CitySelection } type alias CitySelection = { country : Country , city : Maybe City





Making impossible states impossible

variant 3





Sources

- Dev Resources:
 - Elm lang official
 - Elm packages packages documentation
 - **Elm Search** useful tool for searching the functions
- Books:
 - Elm programming (free)
 - Elm in Action
- Podcasts:
 - Elm town





Tools

- Convertors:
 - HtmlToElm
 - JsonToElm

- Live Editors:
 - Ellie
 - Try Elm





Community & communication







ElmPrague meetups







What we use

Elm-css



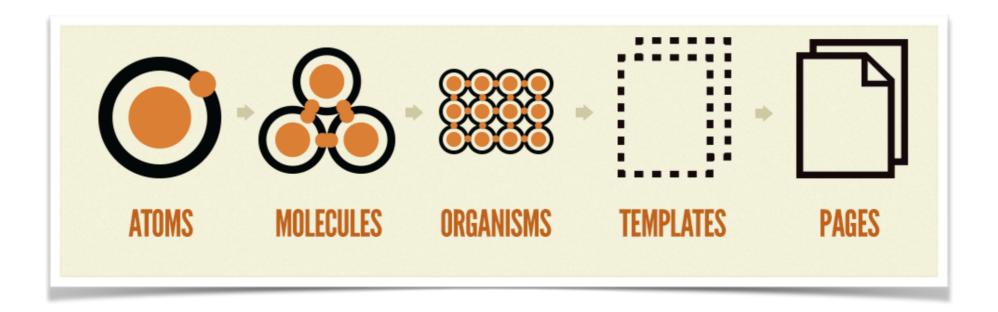
Hello





What we use

Atomic design









"Keep programming."

