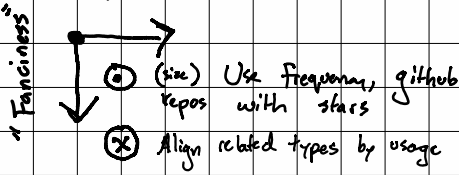


Function - ness



Basics

5: Int
5.0: Float

True: Bool
False: Bool

"Hello World": String

type Choice = Rock | Paper | Scissors
Rock: Choice

Fancy

type Service = Awful | Good | Great

type Toy = Legos | Doll

type Santa Gift = Gift Toy | Coal

Coal: Santa Gift

Gift Doll: Santa Gift

type alias Christmas Child = {name: String, gift: Santa Gift, delivered: Bool}
{name: "Drew", gift: Santa Gift, delivered: False}: Christmas Child

Fancier

type Santa List = List

[{name: "Sam", gift: Doll, delivered: False},
{name: "Forest", gift: Coal, delivered: True}]
: Santa List

coal Cost: Santa List → Float
Coal Cost list = list

1. List.map
2. List.fold g = g + coal
3. List.length
4. (*) 500

Fanciest

Html div: List Attribute → List Html map → Html map

List.mapG

What are representative projects for usage frequency data?

- elm - real - world
- Open source high-quality projects? High "elm-ness"?
- Private analytic sharing via elm-syntax
- All github elm?
- Fuzzed execution paths?

(+): number → number → number

(+): 5: Int → Int

(+): 5.0: Float → Float

- ☒ Christmas Examples
- ☒ Web Examples
- ☐ Github Examples
- ☐ Only exposed

Elm Program Mapper

tip From Awful: Service → Float → Float
tip From Awful: bill Amount = case s of
Awful → bill Amount * 1.15
Good → bill Amount * 1.18
Great → bill Amount * 1.20

String.reverse: String → String
(eg.) String.reverse "Hello" → "olleH"

tip From Good: Float → Float
tip From Good: bill Amount = bill Amount * 1.15

Flip Y, add physics for "scale" vs "top heavy" type structures?