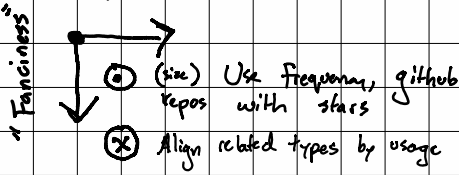


# Function - ness



## Basics

5: Int  
5.0: Float

True: Bool  
False: Bool

"Hello World": String

## 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.foldLeft  
3. List.length  
4. (\*) 500

## Fanciest

Html. div: List Attribute → List Html msg → Html msg

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 - in - elm?
- elm - syntax, elm - in - elm?
- All github elm?
- Fuzzed execution paths?

(+): number → number → number

(+): 5: Int → Int

(+): 5.0: Float → Float

Id 1: Analyze Github and publish comm. map subset

Id 2: Split Repo from Github, analyze in Browser w/ de - in - elm (and github in elm - elm)

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

# Elm Program Mapper

tip From Awful: Service → Float → Float  
tip From Awful: s 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 Ude: Float → Float  
tip From Ude: bill Amount = bill Amount \* 1.15

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