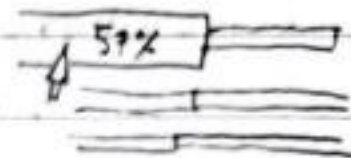


Visualisations

Stacked Bar Chart (Tech Diversity Gender)

→ Improvements:

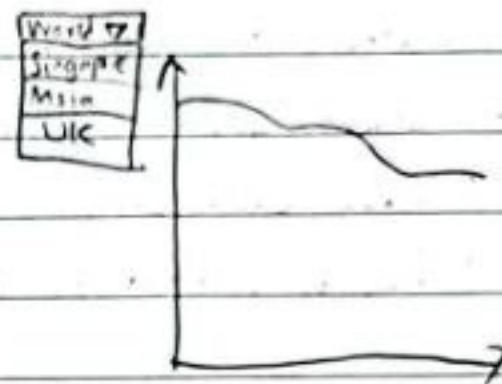
- Display exact % on mouseover
- Make it 3D, pop up upon mouseover.
- Include more companies + scrollable?



Line Graph (Pay Gap: 1997-2017)

→ Improvements:

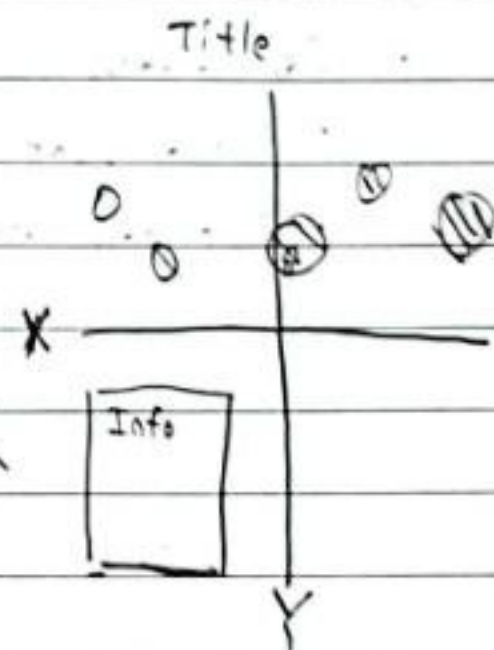
- Make the graph curved.
- More types of dataset + Selection (Maybe different countries?)



Scatter Plot (Pay Gap by Job: 2017)

→ Improvements:

- Label axes.
- Colour ellipses based on pos position.
- Pop up upon mouseover + display more information



Pie Chart (Tech Diversity)

→ Improvements:

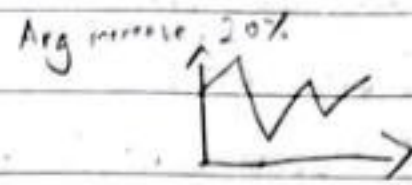
- Pop up upon mouseover + display %
- 3D



Adjustable line graph + Temperature (Climate change)

→ Improvements

- Display average increase ✓
(Changes depending on how zoomed in)

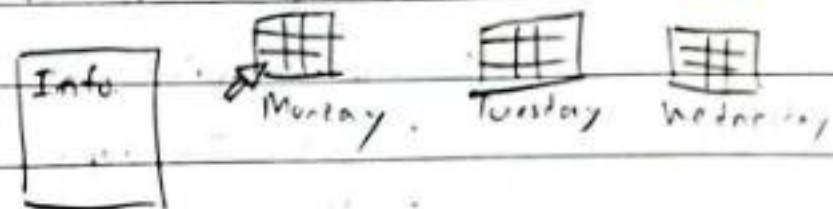


Wattle charts (UK-Food Days)

→ Survey → Result Generator (code it out) ✓

→ Improvements.

- Label each day ✓
- Display information at side when mouseover day.

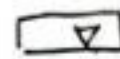


4

Dynamic Presentation (UK Food Type).

→ Improvements.

- Vertical year selection / Dropdown menu. X (Slider) ✓
- Text stays within the ellipse. (Wrap Text)



Complex wattle chart X (pivot)

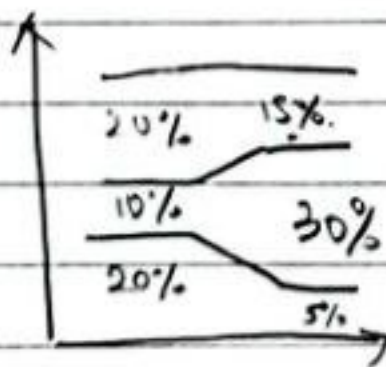
→ Multiple columns of data.

→ Temperature based on data.

	A	B	C
1111, 2222, 3333			

Improvements to be made.

- Stacked Bar chart
 - Display exact % and pop up upon mouseover
 - Include a drop down selection.
- Line Graph
 - Multiple lines of data for different countries.
- Scatter plot
 - Pop up information box upon mouseover.
- Pie Chart
 - Pop up upon mouseover
- Waffle chart
 - Display information at side ^{when} mouseover days.
- Stacked area chart.
 - Multiple ~~at different~~ proportions.
 - Compare 2 time period

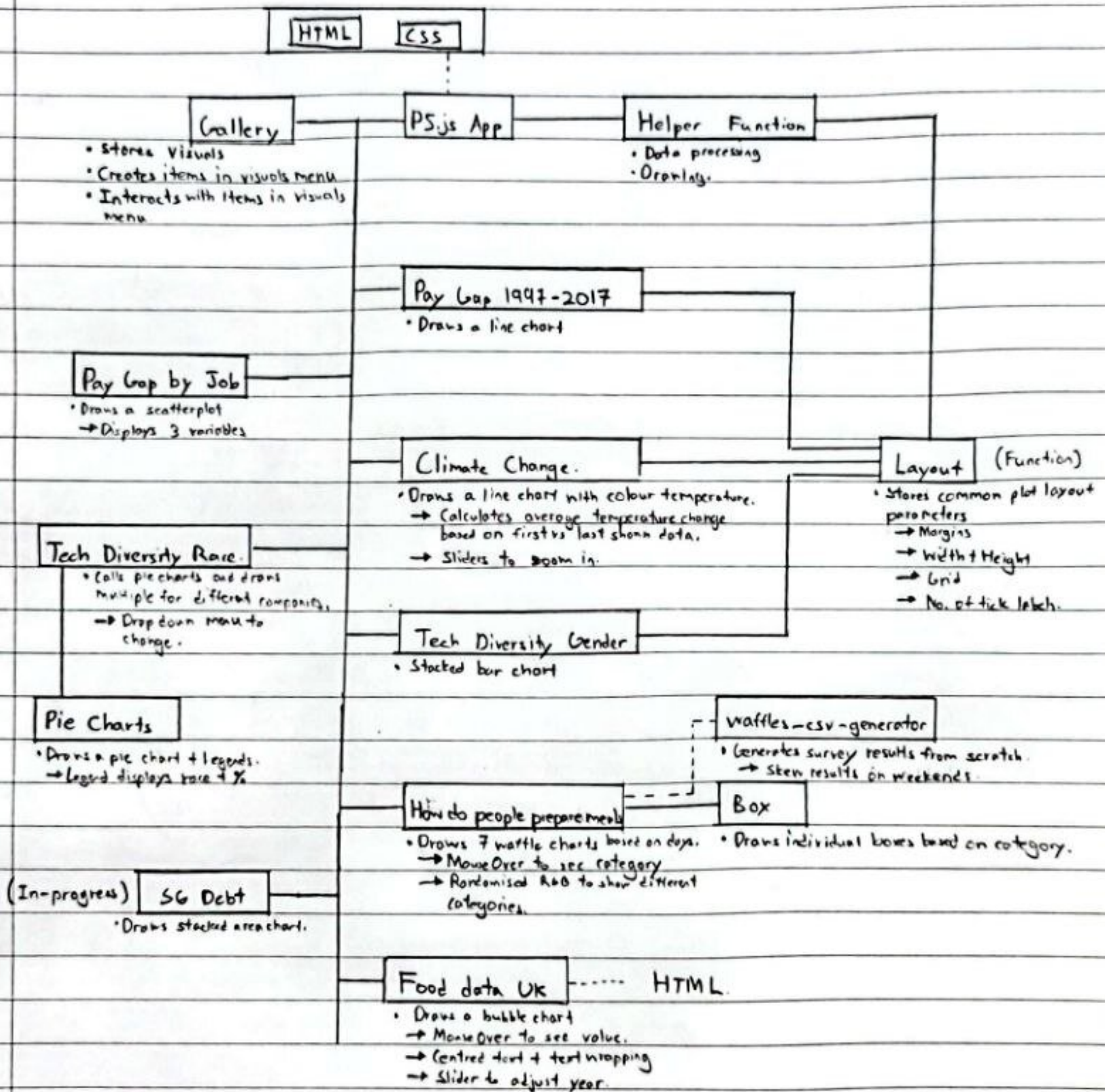


Current site map

Date

No.

PS.JS PS.Dom



Gallery.js

GalleryPublic:

- SelectedVisual
- add Visual ()
 - Stores Visuals
 - Creates DOM elements.
 - Add events handlers.
 - Calls preload

Private:

- Visuals = [] ← Array that stores Visuals
 - select Visual () ← Find visuals in visuals array using ID
 - find Vis Index () ← Find visual position in an array given ID string
 - menuItem.mouseOut ()
 - . mouse Over ()
 - . mouse Clicked ()
- Event handlers

Called by

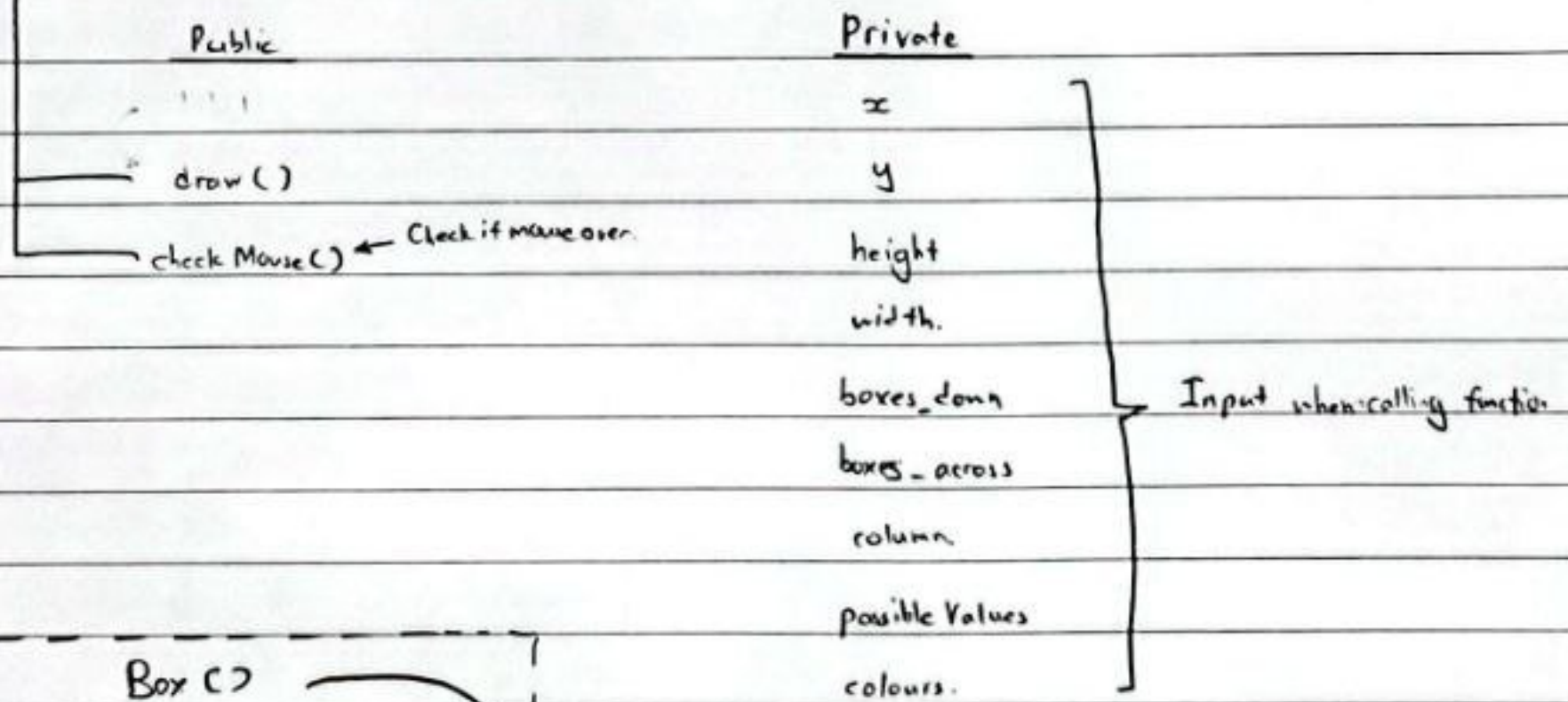
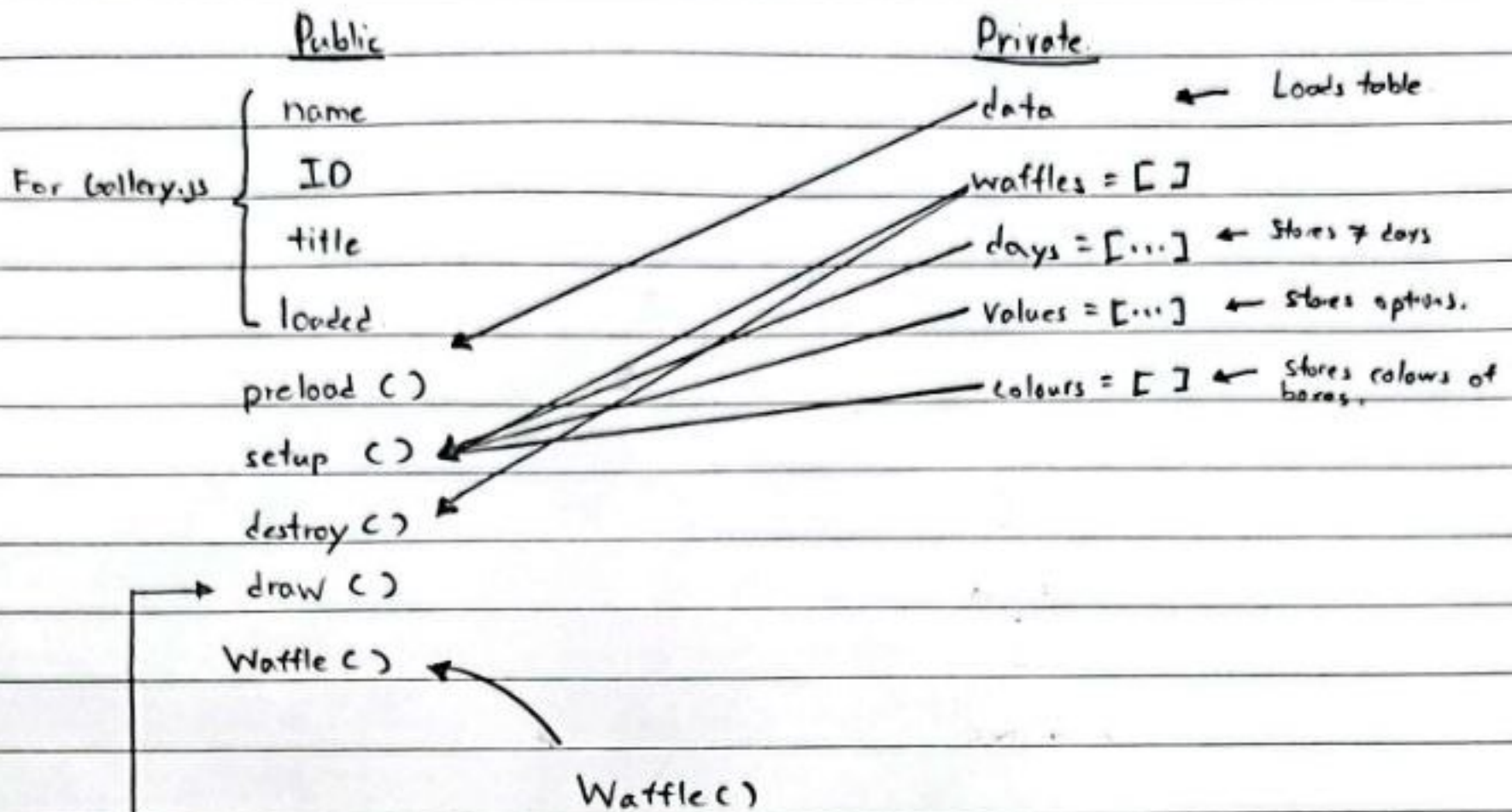
Visuals.Public:

- Name } Strings
- ID } Strings
- Data ← Data is stored
- Loaded ← Used by Draw
- Preload
- Setup
- Destroy
- Draw ← PS.App.

Private:

how - do - people - prepare - meals.js (Waffle chart)

Waffles



Boxes.js

Box()

Public

- draw() ← Draw Boxes
- mouseOver()
- category ← Input

Private

- x
- y
- height
- width

Input

Private

- categories = []
- boxes = []
- categoryLocation()
- addCategories()
- addBoxes()
- label

Empty Arrays

Find index of category

Add categories to categories array (Name + count + colour)

Add boxes for boxes array

For labelling.

food-data = UK.js.

Food data UK ()

Public

name
ID
Title
loaded

Gallery

preload ()

setup ()

destroy ()

draw ()

Bubble ()

updates current
selected year

change Year ()

Private

data ← To store Table data

bubbles = [] ← Store bubble objects

map Amt ← Map data values to size

years = [] ← Store years included.

← creates sliders.

year slider ← Interacts with HTML.

min Year

max Year.

Set range of slider.

Bubble ()

Public

size

target-size

pos

direction

name

units

color

data

current data.

draw ()

Private

Variables.

Update bubble
position

update ()

Set current data
value.

setData ()

Used to display
values.

monitored ()

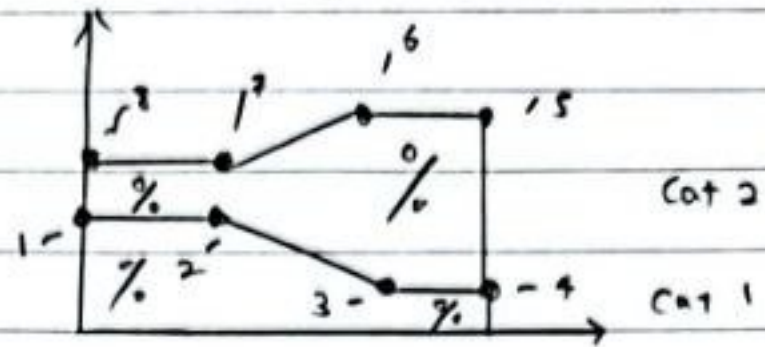
Calculate number
of lines needed.

calcLines ()

wrapText ()

Wraps text

Dist between 1 & 2 dependent on %
Dist between 5 & 4 dependent on %



Category 2

$$\text{cat } 15 = \text{cat } 24$$

Repeat for all categories \uparrow