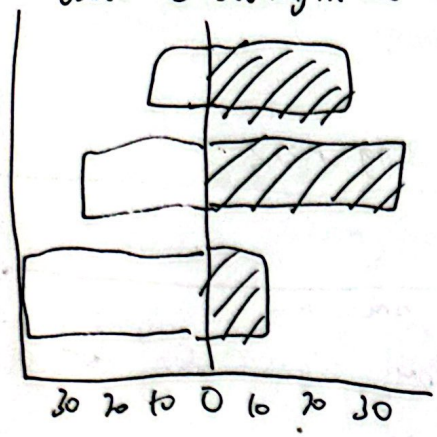
SHEET 1

Albert Tjugiarto
24726845

IDEAS

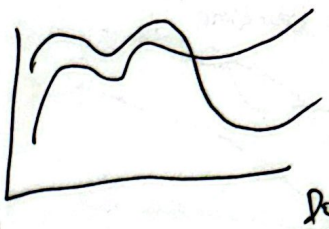
1. Diverging bar chart

Obese vs overweight vs normal vs underweight



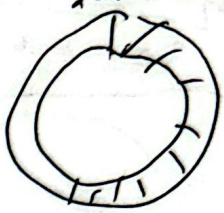
2. Filter

use line chart

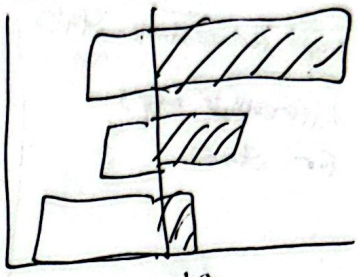


bubble plot

Donut chart

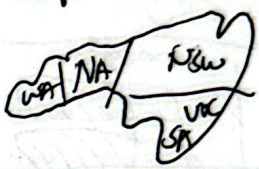


Diverging bar chart

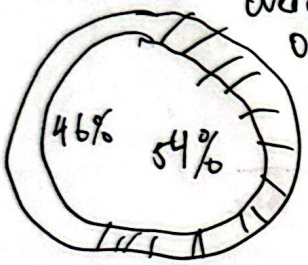


Density plot

Maps of Australia

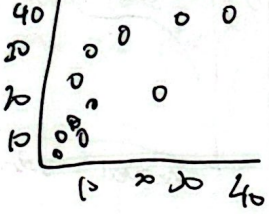


Donut chart



Overweight vs Obese

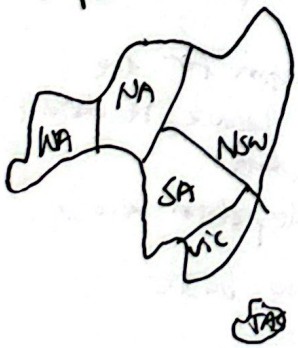
bubble chart in neighborhood



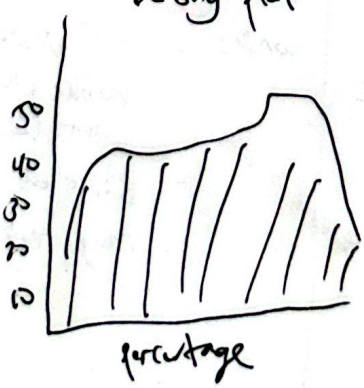
Line chart of timeline overweight vs obesity 2012 - 2022

bar chart of classification BMI

Maps of Australia with their States



Density plot



3. Categorize

Trend of Obesity Classification

↓

Location States / territories

↓

Normal BMI classification

↓

Range of meters of Obesity in neighborhood

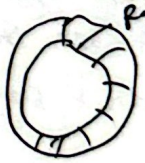
↓

BMI on the range

4. Combine and refine

Combine & refine bar chart

Point for the range

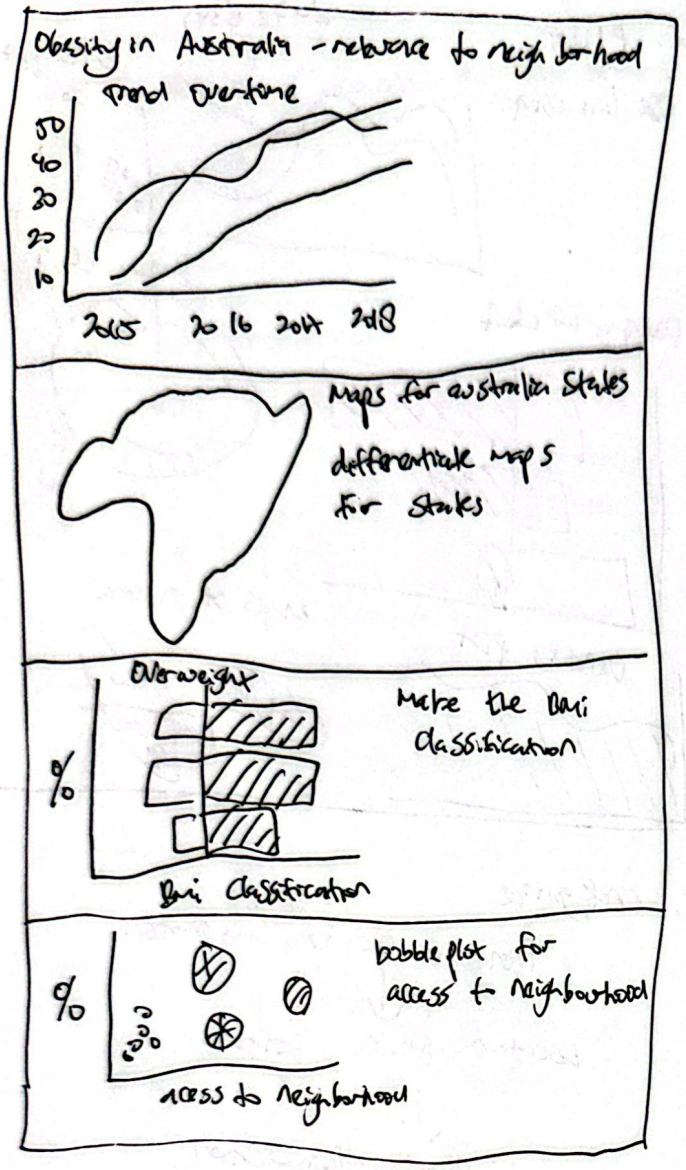


Density plot of classification

5. Question

1. Does the visualisation answer the question?
2. Does the visualisation work together?
3. Is the design accessible and engaging?

Sheet 2



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title: Obesity in Australia - Relevance to neighborhood

Author: Albert Tyagiato

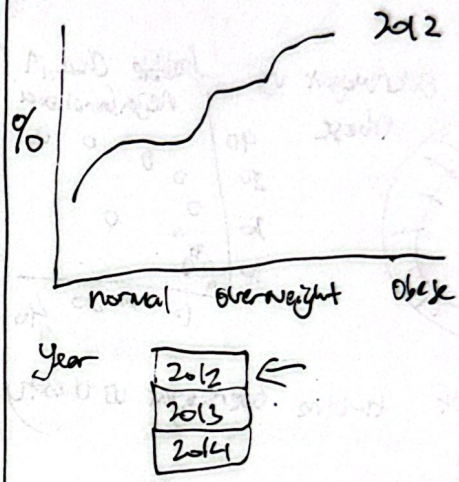
Date: 20/10/2025

Sheet: 2

Task: FIT 3179 ASS 2

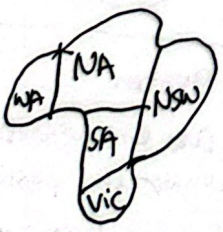
Operations

Highlight the line chart for each year BMI classification for 2012 - 2022



Focus

- Focus on the maps of states that when user press the highlight state it will show the percentage of that current state that has Crude obesity



with label of percentage

Discussion

pros: - engaging and familiar comparison of BMI
- easy to answer which states has the highest obesity crude
- expandible to multiple variables

cons: - poor visualisation for the bubble chart because it doesn't split the data
- Risk of interpretation because may feel to basic

Sheet 3

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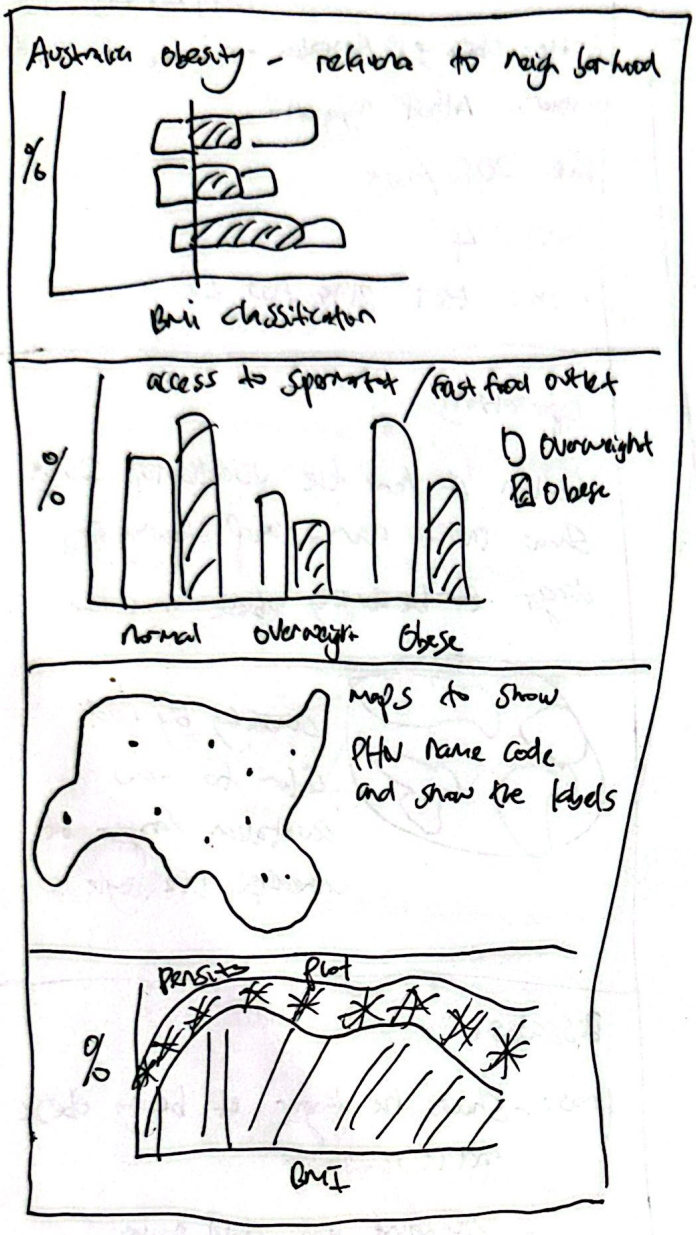
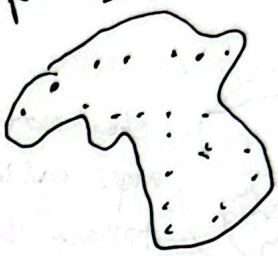


Title: Australia obesity - relevance to neighborhood
Author: Albert Tjugiarto
Date: 20/10/2025
Sheet: 3
Task: FIT 3179 ASS 2

Operations

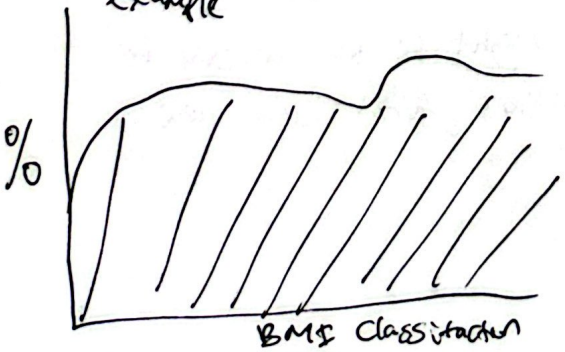


on the Maps rather than showing the states, I show the dots for PHN code as well as the labels for each percentage.

focus

- focus on the Density plot when it shows the year of 2016 - 2022 and then put on dots and labels for the percentage

example



year : 2022

Discussion:

pros: - show exactly detail percentage of the measurment in the maps
- Show each yer in the BMI
- Cleaner layout with detail visualisation

Cons: - the maps will be too much dots since it will show the PHN name not the states and will make the visualisation too messy
- some users may prefer static chart that show everything at once

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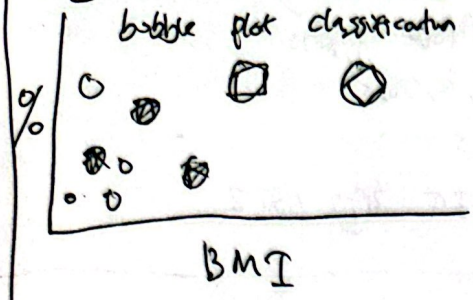
Sheet 4

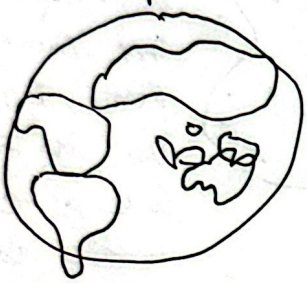
title: Obesity in Australia - relevance to neighborhood
author: Albert Tyyoto
Date: 20/10/2025
Sheet: 4
task: EST 3139 ASS 2

obesity in Australia - relevance to neighborhood

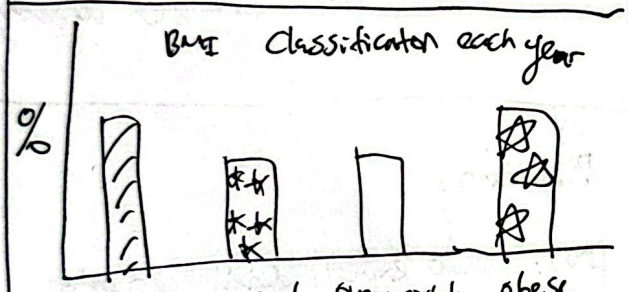
bubble plot classification of BMI

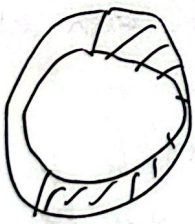


world maps



Show world maps and indicate Australia obesity Ranked



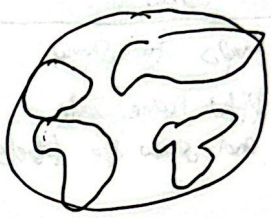


Donut classification of rage neighborhood

rage: 1000m 1500m

Operations

Solution of how the visualisation can show on the world map showing its danger for becoming obese and the risk



classify by red color to show Australia danger of unhealthy life style.

Discussion

pros: - shows the danger of being obese and it's risk

- engaging and could make user change his lifestyle

cons: - applying the world map didn't suit for Australians especially Monash students

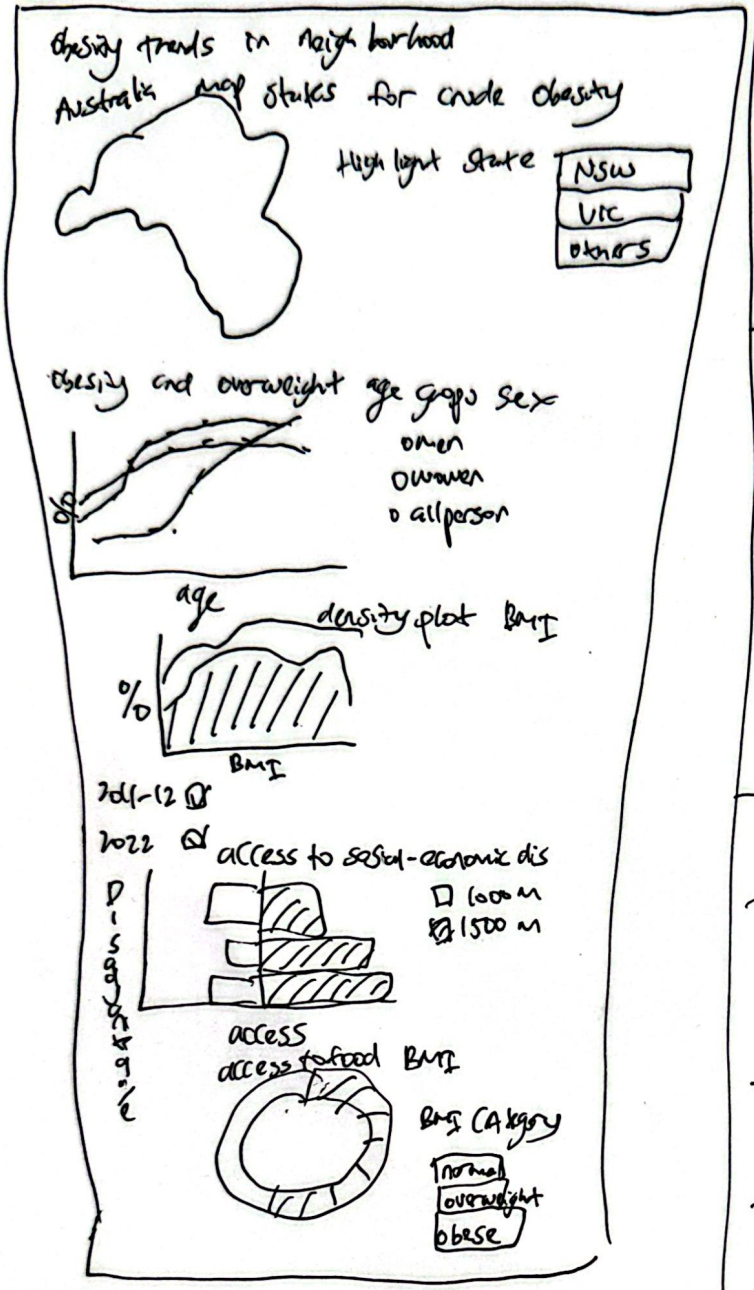
- might be too confusing for users first time view

Focus

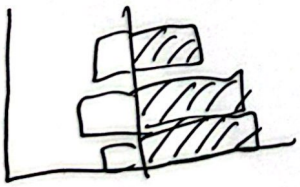
Focus on the world map to show australia world ranking for obesity which can triggered Australian to apply healthier health life and do sport more.

SHEET 5

Layout



focus



- focus on the access of food retail such as supermarket and fast-food outlet with. range 1000m and 1500m
- make sure that it has a dropdown of outlet type for supermarket and fast food outlet.

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task: FIT 3179 Ass 2

Operations

a detailed ics to component

- select year on the BMI density plot
- dropdown in maps for states
- dropdown in BMI Category data
- dropdown in line chart for Measure

Retail

- dependencies plot for visualisation, index.html to show the code with format CSV
- input data set statistics on BMI classification
- interactive year selector
- time N 10 hours estimate for vis
- time N 3 hours for report and references