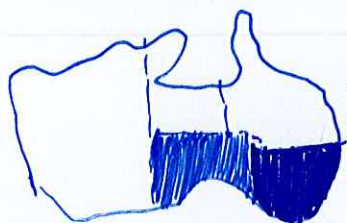


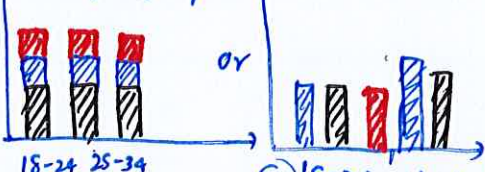
① Mental Disorders by state

Filter

- ☐ Affective
- ☐ Anxiety
- ☐ Substance abuse
- ☐ mental disorder

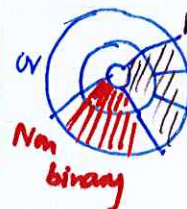


② Mental Disorders experienced by age group.

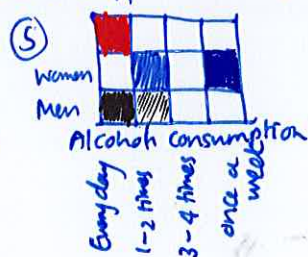
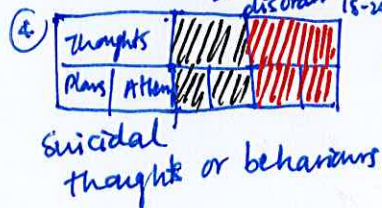
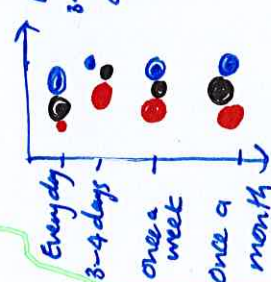
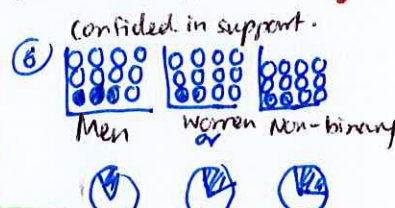
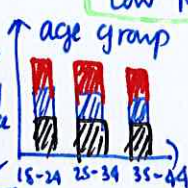


④ Suicidal thoughts

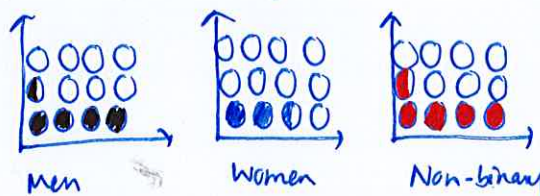
Thoughts	Thoughts
Plans	Plans attempt
Attempt	
Men	Women



Filter



⑥ confided in support



Categorise

Categorical

→ Stacked bar chart (Mental Disorder by age)

→ Sankey diagram (Psychological level of stress)

Ordered

→ Tree map (Suicidal behaviors)

→ Waffle chart (confided in support)

→ Heat map (alcohol consumption)

Choropleth map

(mental disorders by state)

Combine & Refine



Tool tip:
state:
Total

* Need to normalise
by population

② Stacked bar chart could be hard to read. Depending on values if the baseline varies, use grouped bar chart

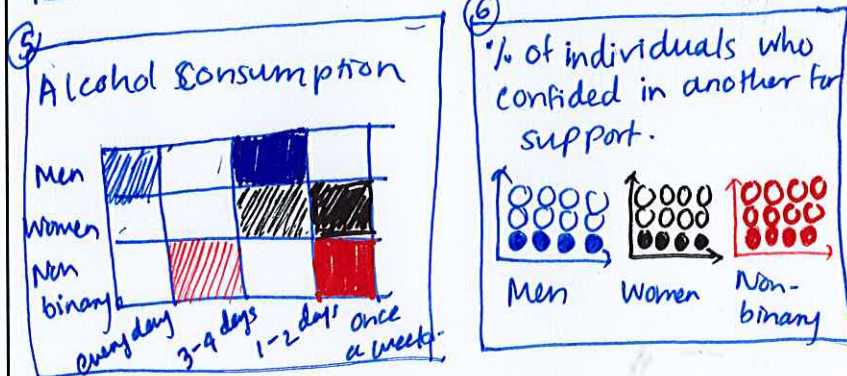
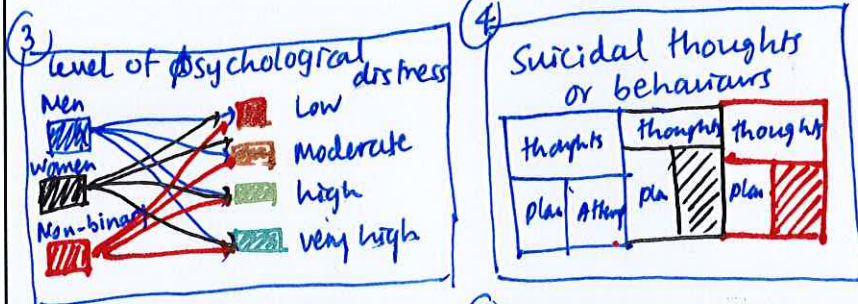
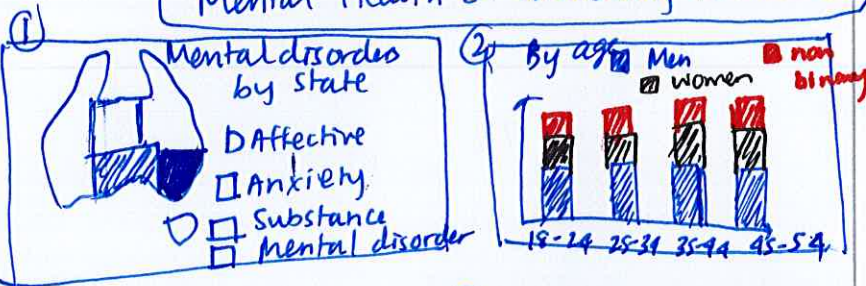
④ Treemap is better at comparing proportions better than circular treemap.

⑤ Heatmap better represents the severity of alcohol consumption, compared to bubble chart.

- filter by
- ☐ Affective disorders
 - ☐ Anxiety disorders
 - ☐ Substance abuse disorders
 - ☐ mental disorders

Summarise and question

How do mental health conditions vary across different demographic groups such as gender, age & region?



Parti / Focus No main focus, all graphs are equal



Normalise by population for each state.

* some graphs are larger (① & ③) to emphasize their features, allow clear analysis.

Components / Operations

- ① have a bar at the top to filter by disorder.
or
could use a drop down menu

Select ▼

Affective

Anxiety

Substance

Tool tips

→ Gender, value (%)

or

→ State, relevant value.

- * hover mouse over data point for tooltip to show.

- * Being able to click a gender & filter data.

Pro & Cons

Pros

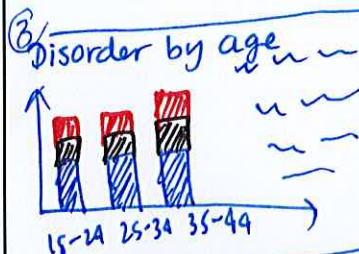
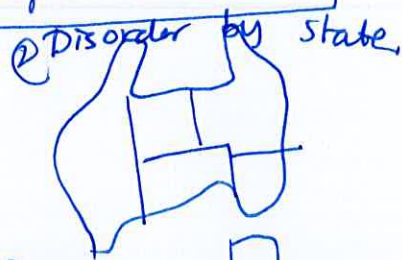
- * Less engagement with user.
- * Well segmented into sections
- * Proportional representation.

Cons

- * No main focus.
- * No text, lacking detail?

Big Picture / Layout Mental Health & Well being in Australia

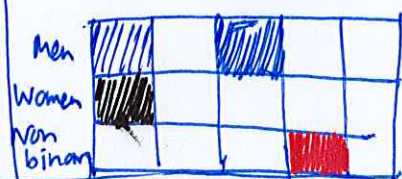
1. Cumulative



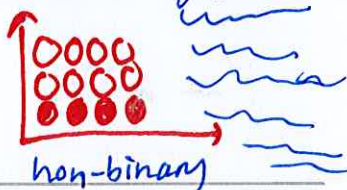
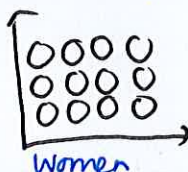
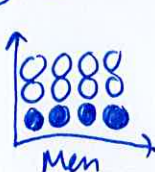
5. Suicidal behaviours



6. Alcohol consumption



7. Confided in support



Parti / Focus

No main focus, all graphs are important.



Normalise by state population

filter by

- ☐ Affective disorder
- ☐ Anxiety disorder
- ☐ Substance abuse disorder
- ☐ Mental disorder.

graphs 2 & 4 Larger to emphasize their features, allow for clear analysis.

Sheet 2,3,4

Name Ayani

Date

Title Sheet 3

Description

Components / Operations

Tool tip:

Gender:
relevant
value:

state:
relevant
value:

☒ filter by disorder

* Also filter by gender when clicked on each gender.

Pro & Cons

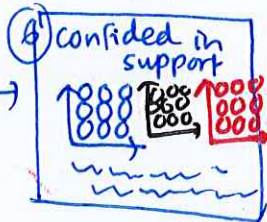
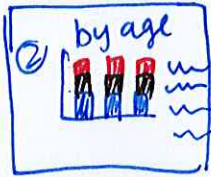
Pros

- * Less engagement with user
- * well segmented into sections
- * Proportional representation

Cons

- * Might be information overload.

* scrollable.



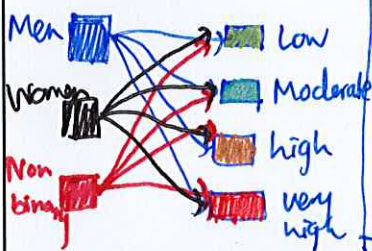
Part / Focus

① Mental Disorders by state

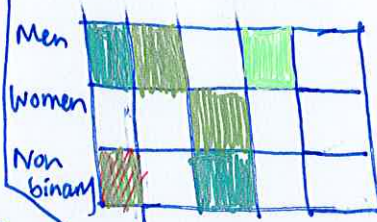


* Normalise data by state population

③ level of psychological distress

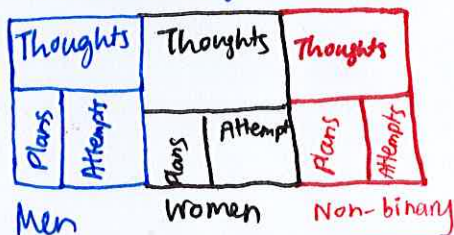


⑤ Alcohol consumption

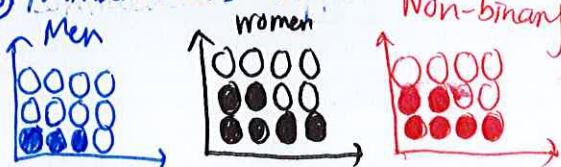


everyday
3-4 times a week
1-2 times a week
once a week
once a month

④ Suicidal thoughts or behaviours



⑥ % Individuals who Confided for support.



Sheet 2,3,4

Name

Date

Title Sheet 4

Description

Components / Operations

choropleth filter by

- ☐ Affective disorders
- ☐ Anxiety disorders
- ☐ Substance abuse disorders
- ☐ mental disorders.

Tool tip:

Gender:

Total:

choropleth tool tip

State:
Affective:
disorder

Total:

* Filter by gender when clicked.

Pro & Cons

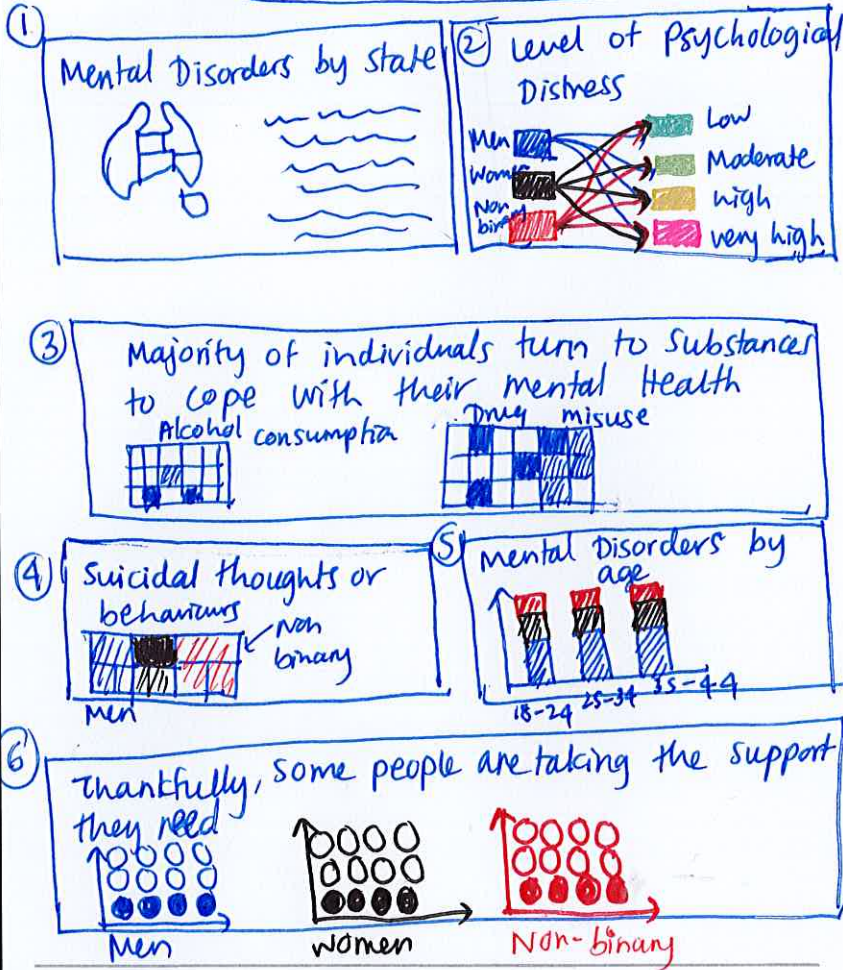
Pros

- * Interactive
- * Narrative flow
- * scrollable, suitable for any web browser / laptop.
- * clearly divided into small sections that is digestible by the viewer

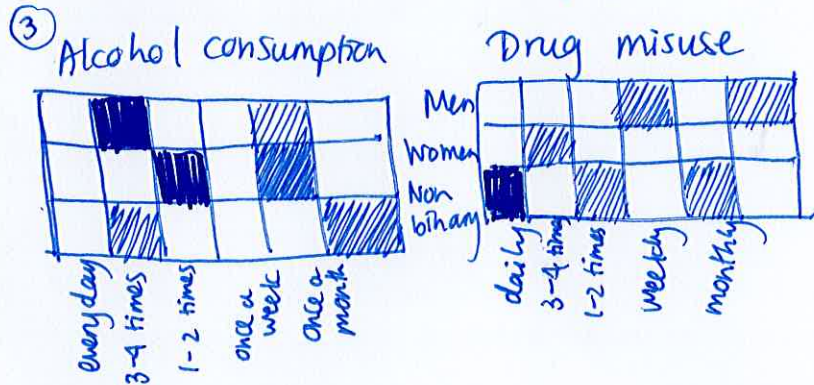
Cons

- * Might be too long, since there are 6 sections
- * Not space efficient.

Big Picture / Layout How Serious is Mental Health in Australia



Parti / Focus No main focus all graphs are equal.



② Traffic Light colours for distress intensity.

④ Suicidal thoughts or behaviours

Thoughts		Thoughts		Thoughts	
plans	Attempt	plans	Attempt	plans	Attempt
Men		Women		Non-binary	

Sheet 5

Name Ayani

Date

Title sheet 5

Description

Components / Operations

① have a bar at the top to filter by disorder

- ☐ Anxiety disorders
- ☐ Affective disorders
- ☐ Substance abuse disorders
- ☐ Mental disorders

* User can filter by gender when clicked.

Details

Dependencies

* Vega-lite for visualisation
R - for data cleaning.

Estimated timeline.

Choropleth - 1 day

Sankey diagram - 2 days

Bar chart, Waffle chart - 1 day

Heatmap, Treemap - 2 days.