Ideas

Choropleth of Hospital density

(Normalised to total hospitals)

Dot map of clinics

Health Network Visual

Color used for different network clusters

(Expenditure category)

Insurance

Dental Care

Therapy

Exp in millions (AUD)

VIC NSW ACT State

Public Funding

Private Funding

ACT			
NSW			
VIC			
WA			
SA			
NT			

Funding over Years

X axis (OR)

Expenditure Breakdown

Million (AUD)
4m
3m
2m

Colors: Diff expenditure sources

State

Filter

EXP (AUD)

State

Hard to read as there are 10 categories

Expenditure (funding) AUD

400
300

VIC NSW State

Will not work as it makes for uneventful bar graph with 2 big stacks

PIE CHART BETTER
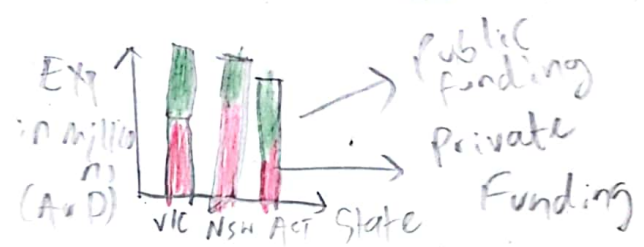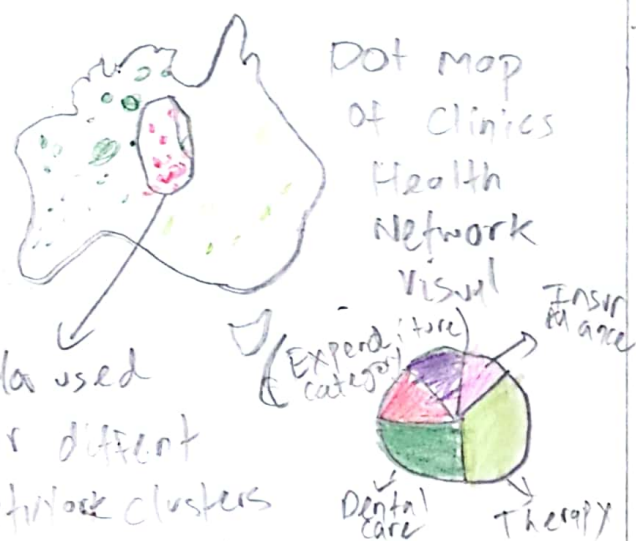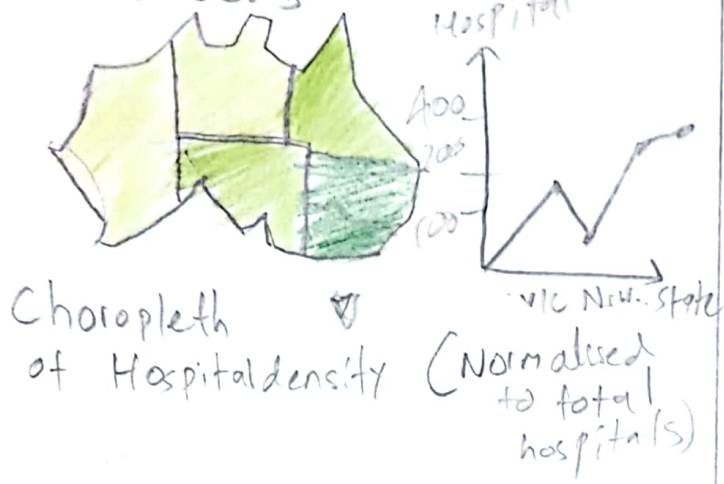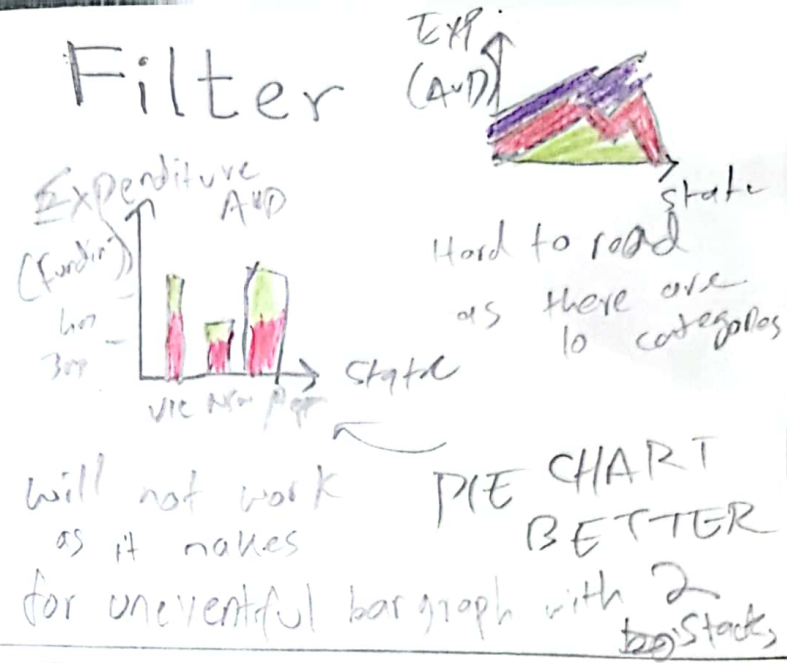
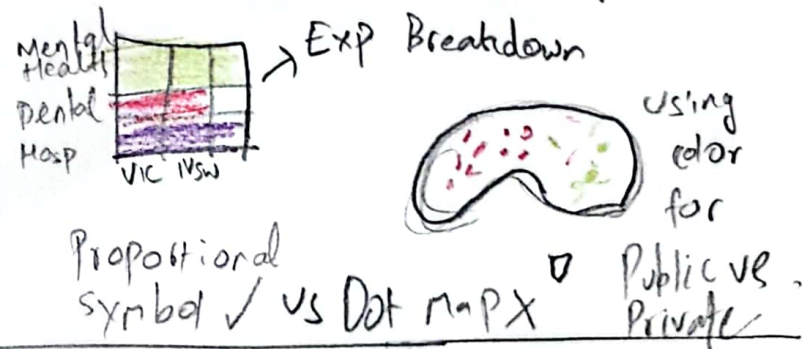# Categorize

Proportional symbol map: General dist. of hospitals

Choropleth map: Hospital [Density]?

Pie chart: Sector Analysis

Heatmap: Funding / Time Series

Line: Time Series
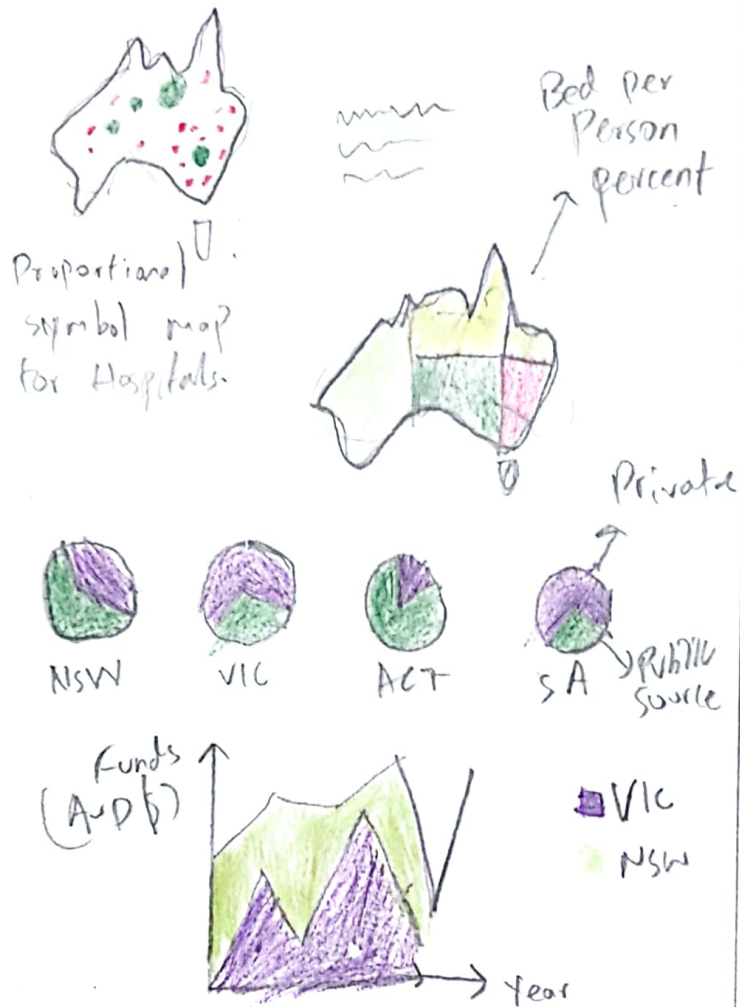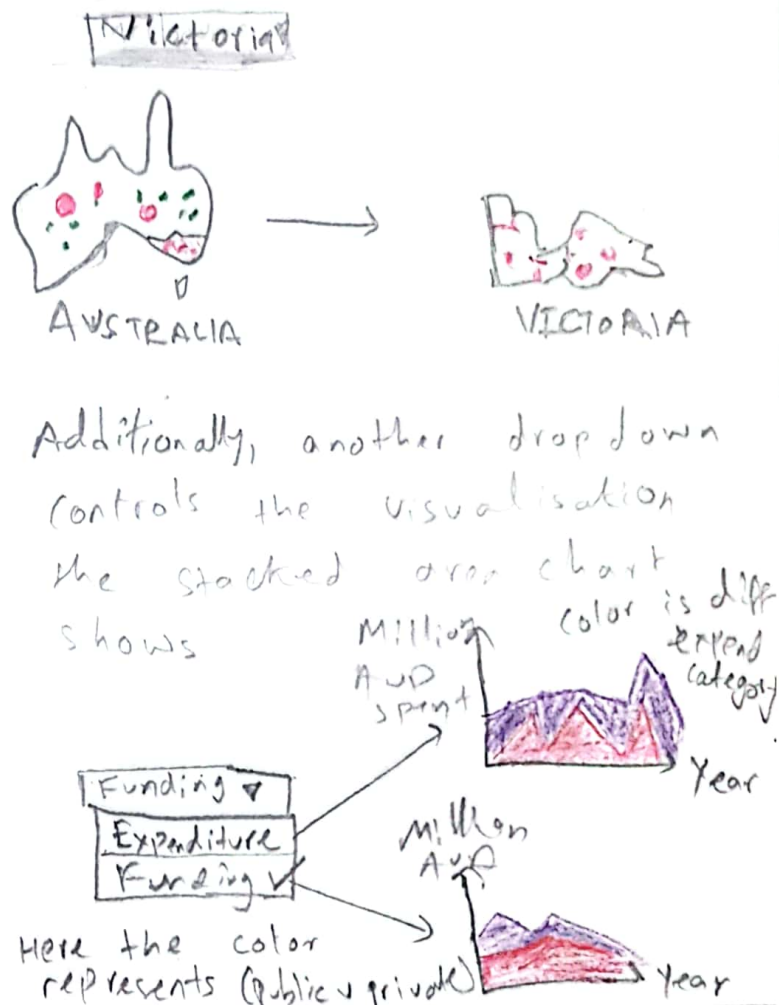
Combine and Refine

Mental Health
Dental
Hosp

VIC NSW

→ Exp Breakdown

Using color for Public vs Private

Proportional symbol ✓ vs Dot map ✗

Questions

- Is this easy to read?
- Are these charts making use of interesting information?

Layout

Proportional symbol map for Hospitals.

Bed per Person percent

Private

Public Source

NSW   VIC   ACT   SA

Funds (AUD$)

Year

■ VIC
● NSW

Operation

Victoria

AUSTRALIA → VICTORIA

Additionally, another dropdown controls the visualisation the stacked area chart shows

Million AUD spent

Funding ▼
Expenditure
Funding ▼

color is different for every category

Year

Million AUD

Here the color represents (public v private)

Year

Focus

⇒ Heavy focus on funding and ratios
    (Pie chart)
    (Stacked Area charts)

=) All information can be subdivided

Hospital distribution
(map idioms)

Healthcare funding
(Pie and stacked

Discussion

Advantages:

Very visually intuitive visualisation they use color to be easy to interpret- Tooltips can used with Pie charts and annotations

Disadvantages:

These idioms are mostly graphical and have less numerical accuracy.

Layout

→ Dot map
Public network

Ratio makeup per state (hospitals)

Million AUD

VIC NSW ACT → State
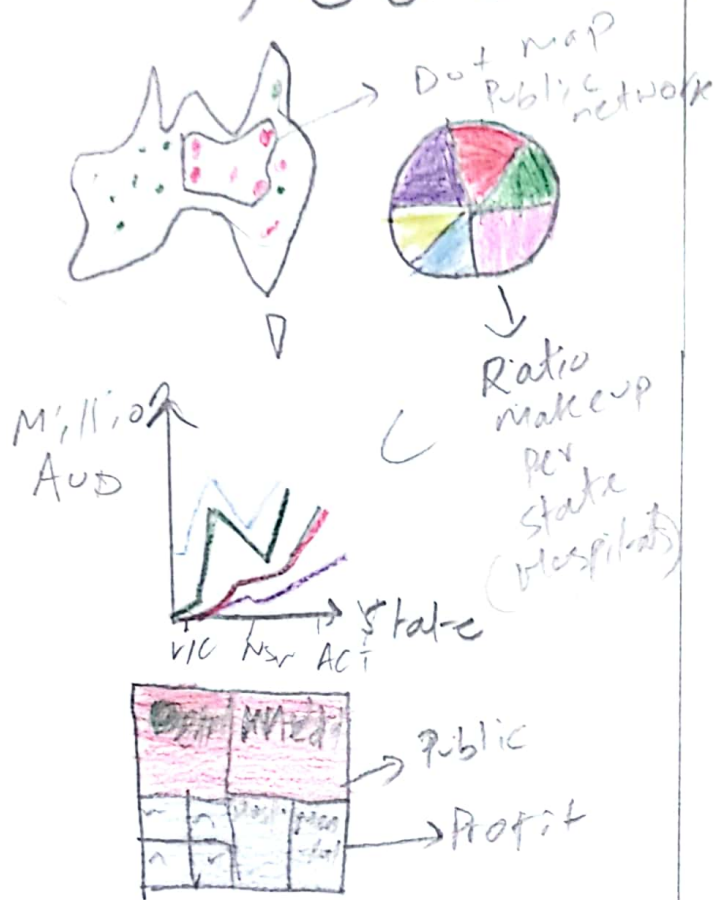
→ Public
→ Profit

Operation

⇒) Public / Private sector makes the 'green' dots disappear

⇒) Changes the tree map to focus on just 1 color for better refinement.

State
VIC
NSW
ACT

} — further limits

Focus

⇒ This visualisation focuses on numerical data more accurately and finely than other idioms.

⇒) Priority is given to funding and health networks
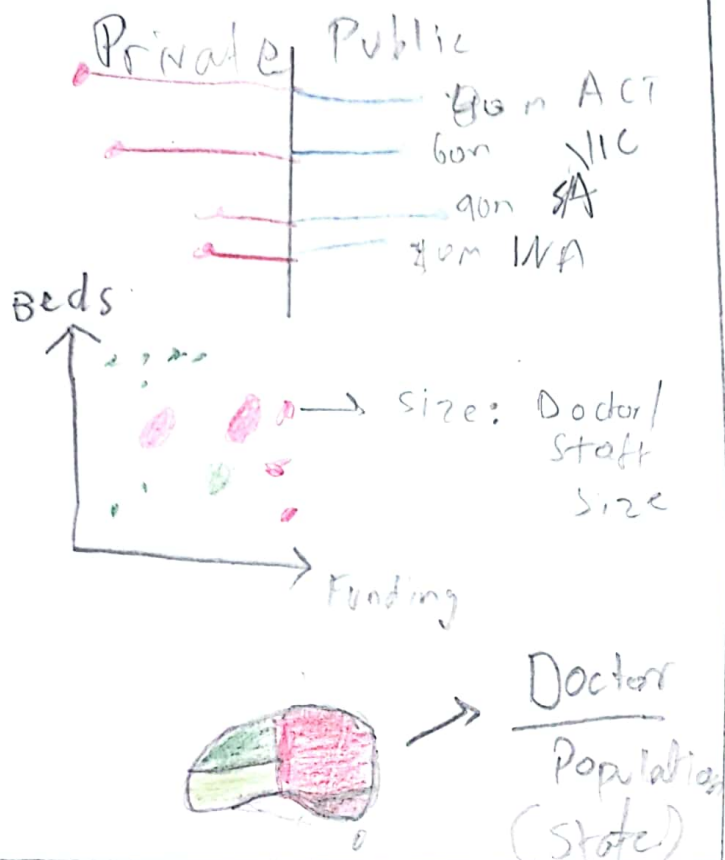
Discussion

This chart is harder to read compared to other more intuitive graphs like 'stacked Area chart' which are numerically focused.

Advantages:

It is very dense data aspect

Layout

Private Public

4on ACT
6on VIC
9on SA
3on WA

Beds

→ Size: Doctor/
Staff
Size

→ Funding

→ Doctor
─────────
Population
(State)

Operation

Slider that controls threshold
for bed quantity, this
filters out dots with
less than a certain
quantity.

Focus

⇒ This visualisation
focuses on hospital
health care adequacy
per state gathering
an overarching picture

⇒ It has less emphasis
on line/ bar charts
as it tries to
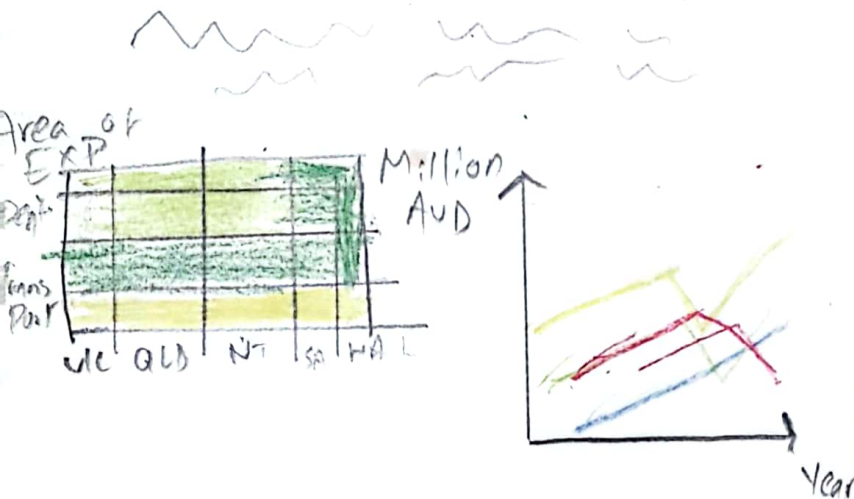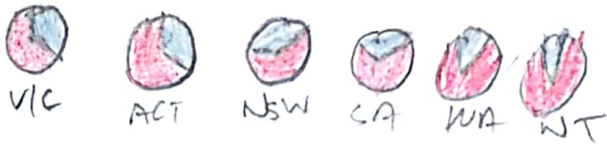efficiently convey
simple info.

Discussion

Dis Advantages:

* Hard to understand
dual axis split bar
chart.

* Bubble chart could be
better converted to
a proportional symbol
map.

Layout

Health care in AUS

State ▾

VIC   ACT   NSW   SA   WA   NT

Area of
EXP

Million
AUD

VIC QLD   NT   SA WA

Year

Expenditure: Admin ▾

Operations

The "state" dropdown controls all idioms and charts and only shows the state scaled up to map.

FOCUS

Main focus is narrative building with different health care services: their trends over :

1. Time yearly
2. Public vs Private Sector
3. Expenditure Break down
4. ...

Details

⇒ Vegalite
⇒ HTML/css /JS
⇒ Github