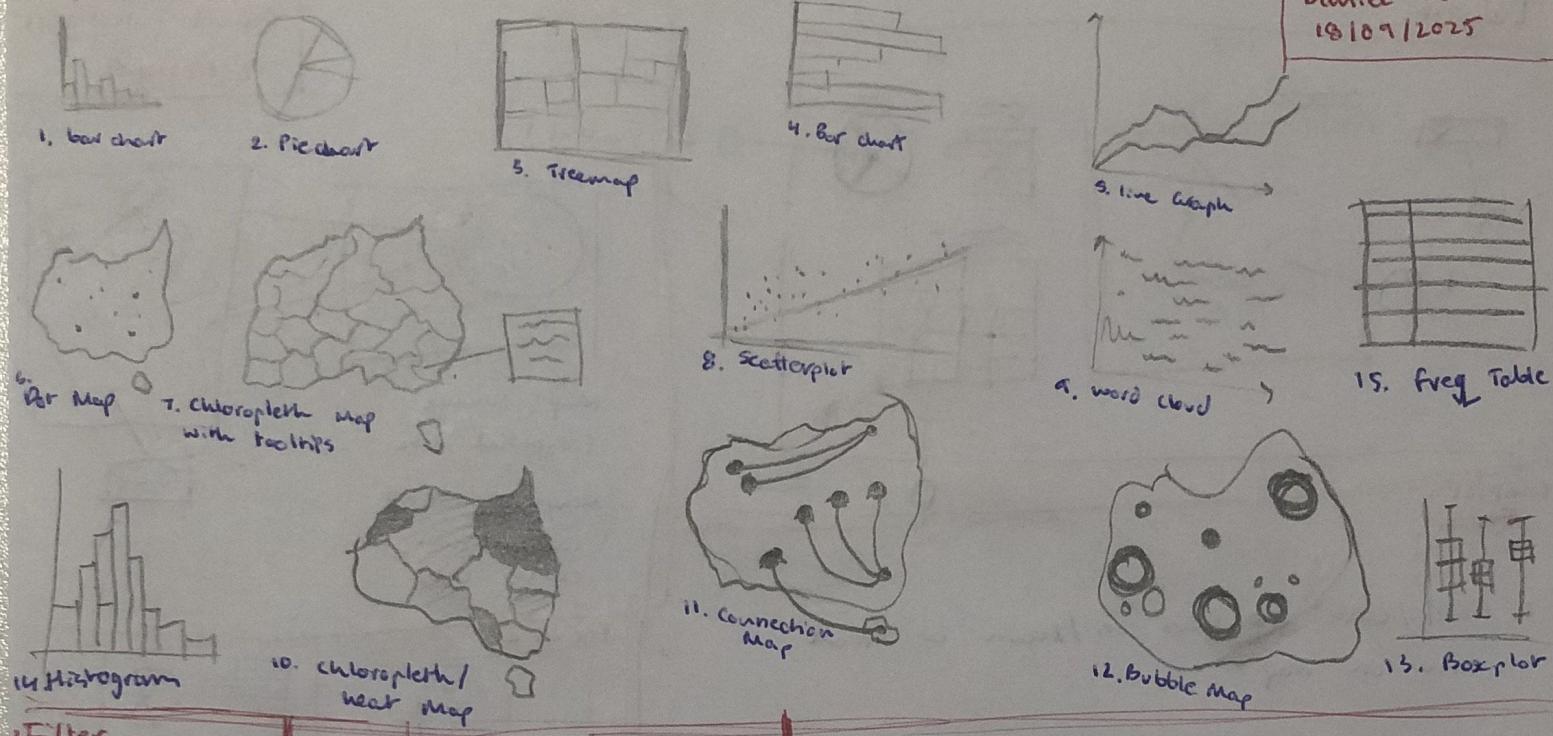


1 Brain Storm

PC: 1 Brainstorm
Daniel Istratoiu
18/09/2025



Filter

Remove:

- 1. Connection map (11)
- 2. ~~word cloud~~
- Dot Map (6)
- Bar chart (1)
- Scatterplot (8)

3. Categorise

Categorical:

7 + 10 } for nominal data

categorical:

2 + 4 } for nominal data

Quantitative:

5 + 12 } for numeric data
* 10

Hierarchical:

3 for class-tiered data

Combine & Refine

7+10: Chlorophyll → Positional Data

heat / shade → Numeric Attribute count
ie. business count

12+2/4: Map → Positional

Bubble size → Numeric Attr.

Pie / bar chart → categorical + numeric.

8 + 7 + 10 + 4:

Chlorophyll → position

Scatterplot → distribution/correlation

heat / shade → Numeric Attr.

Bar → categorical Attr. + numeric.

Question:

What?
Data presented showcases data science job listings on same axis as business data.

Why?

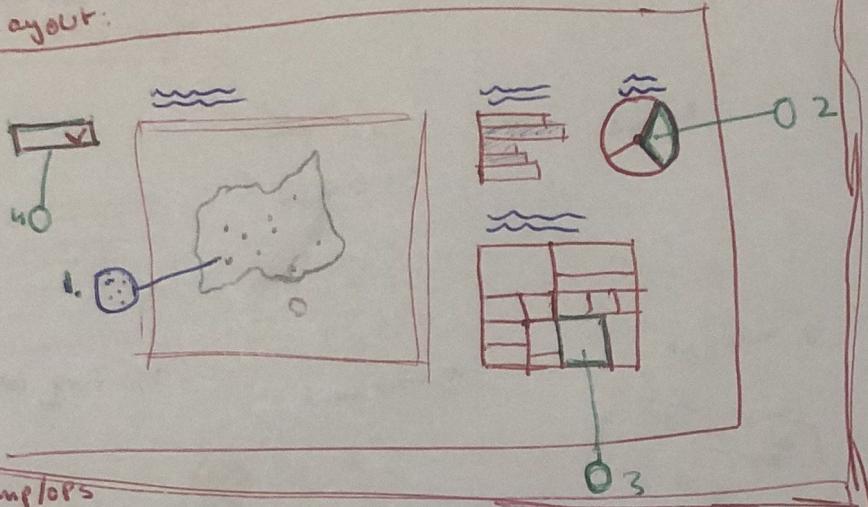
Compares job data science job prevalence with business data, highlighting correlation ~~correlations~~ and patterns.

Who?

This is useful for people seeking to understand where data science jobs are prevalent and how it relates to wider business data.

2.

Layout:

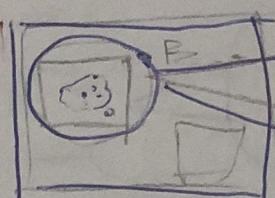


Comp/ops

1. Hover/click to focus on / zoom on small area on map.
2. select pie category to isolate entries
3. select Treemap to isolate category
4. Dropdown menu for some filter (ie.state)

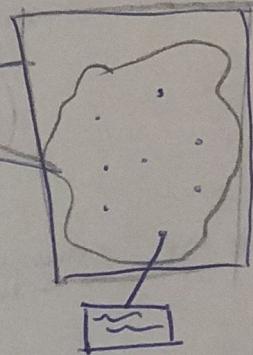
Focus

Focus: 1

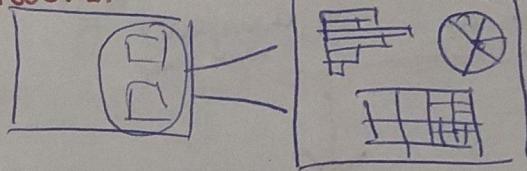


Map: conveys geospatial data

alongside tooltip information, for each dot.



Focus: 2:



categorical component.
classifies groupings of data
for additional context/insights.

Pros:

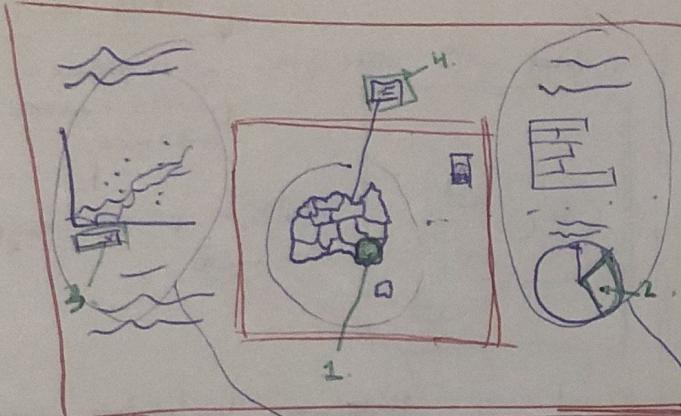
- Combines benefits of ~~geo~~ positional segregation with that of tooltips to maximise information.
- Uses categorical data for easier discernment.
- enhances relationships between datasets via common attribute: (position).

Cons:

- Dots are easy to spot but not used to present information like a visual channel would.
- There is too much categorical data preventing analysis of trends/ patterns.

PG. 2 Design Sheet
Daniel Istrateanu
18/09/2025

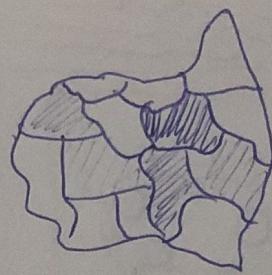
Layout:



Operations:

1. Region select.
2. Category select.
3. variable select: swap between attributes to compare distributions.
4. Tooltips.

Focus:

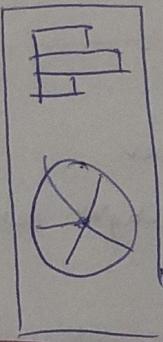


+ simplifies + aggregates data.

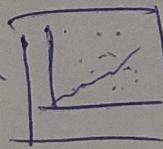


Chlorophyll + Numeric segments map by grouping into larger territories with generalised attributes and data.

categorical component for additional insights



Numeric component for trends/correlations



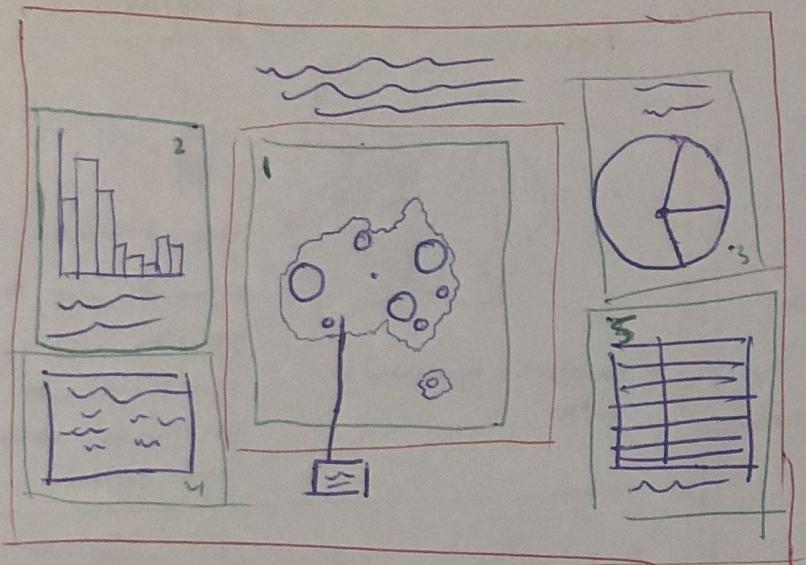
Pros:

- simplified via grouping
- additional information captured by map visual channels (ie. shade)
- numeric data included over just categorical

Cons:

- less specific due to grouping
- more obscure ↑

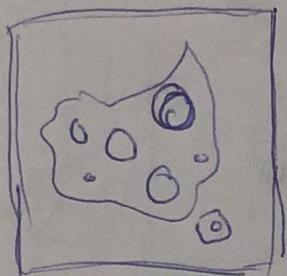
Layout:



Focus:

- Map with sized spots

more precise + provides numeric measure



Tool tips provide insights as well.

- 2.



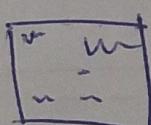
Histogram highlights distribution of some data

- 3.



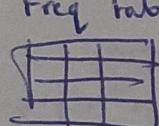
Pie chart categorizes and shows proportions.

- 4.



Word cloud displays words and some numeric attribute, i.e. count.

- 5.



Freq table provides explicit numberings of some data.

OPERATIONS:

Tool tips: on click/hover over

Data select: click to highlight data across all graphs.

Map zoom: to see more detailed data.

Pros:

- Good variety of numeric and categorical data
- Spatial data is more precise
- Comparable visuals
- More data visualisations

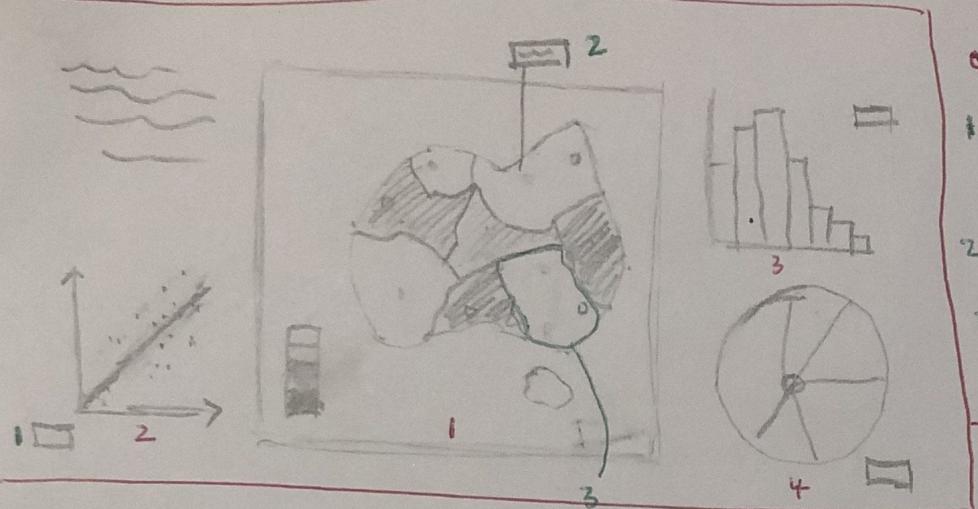
Cons:

- Less readable + more complex
- More noise

PG 4. Design Sheet
Daniel Irrato
19/01/2025

Layout

PC 5. Realization
Daniel Estradaie
18/09/2025



Operations.

1. Variable Select dropdowns for comparing/isolating features.
2. Tooltips: extra details
3. Legion/feature selection, focuses on selected component.

Focus

1. Map with region boundaries and shade indicating numeric attribute.
2. Scatterplot with 2 variables and trend line.
3. Histogram showing distribution of some variable
4. Pie chart highlighting categorisation

Details.

1. Use datasets from Australian Atlas and ABS.
2. Parse Data and clean empty vals.
3. Identify columns to be visualised.
4. Use vegalite + html to create visualisations,

Dependencies: ai: ie copilot/cloud ... , Vs code
Estimate Time: 2-3 days

Specific Regs:
- competent computer
- time allocation
- lecture slides/content.