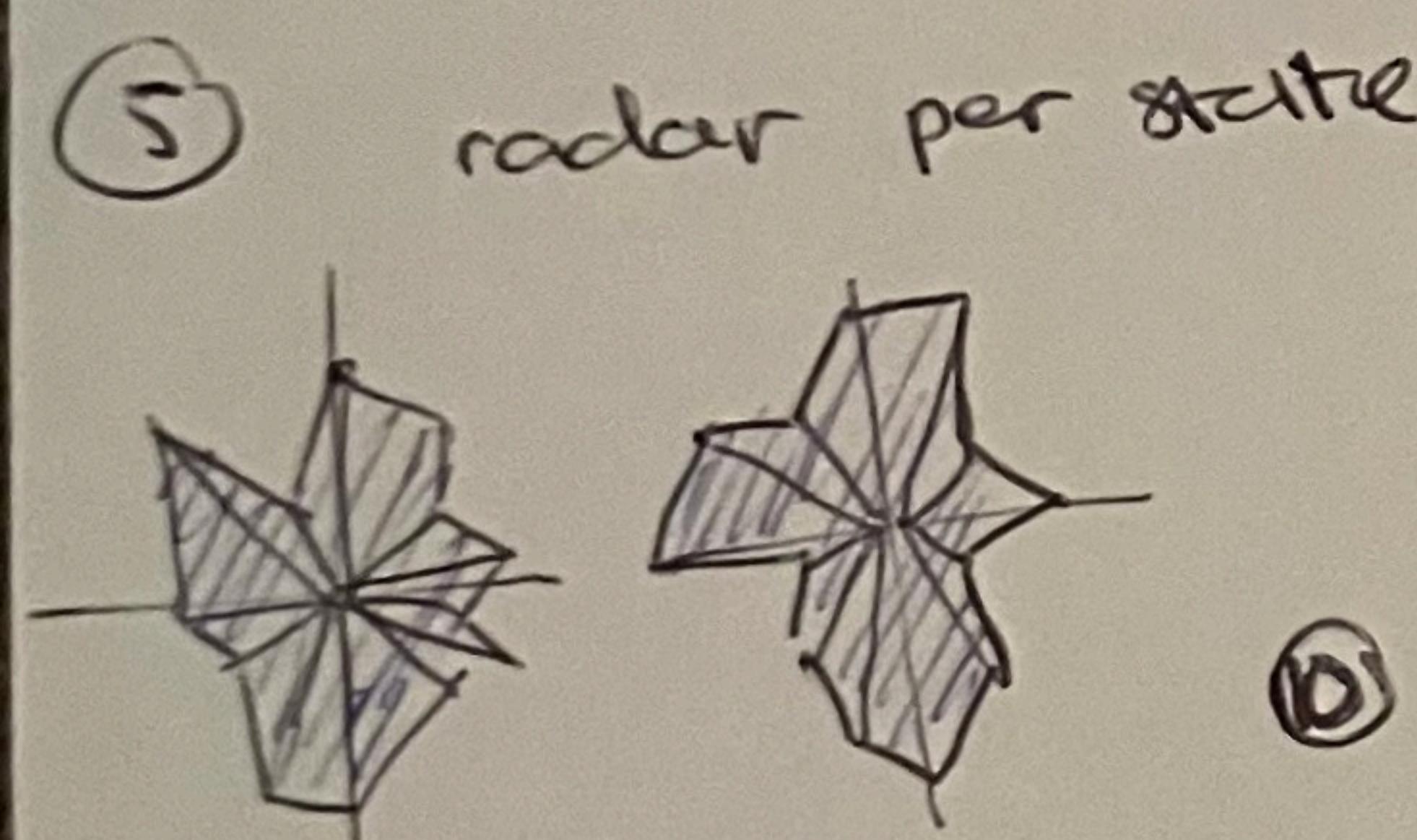
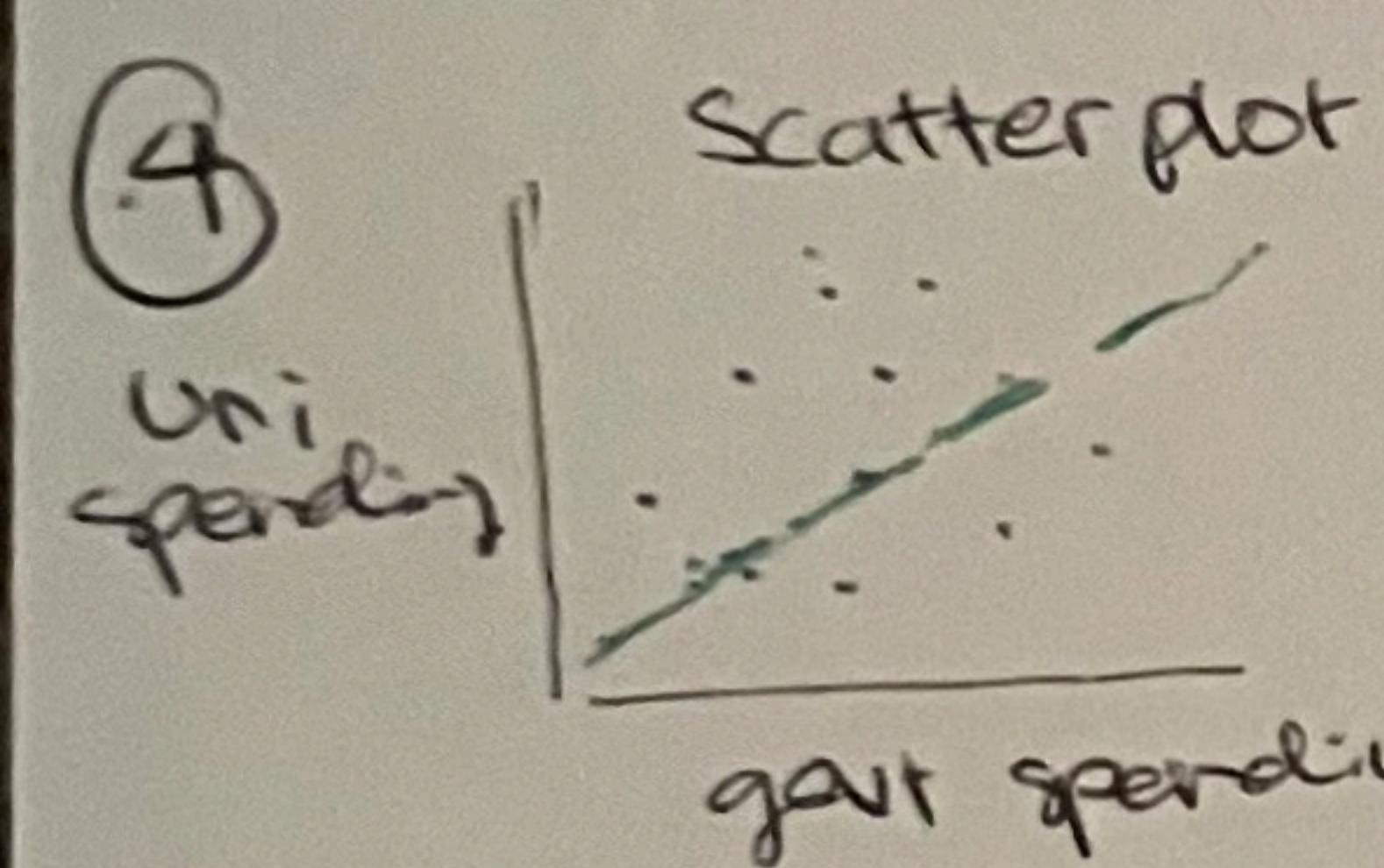
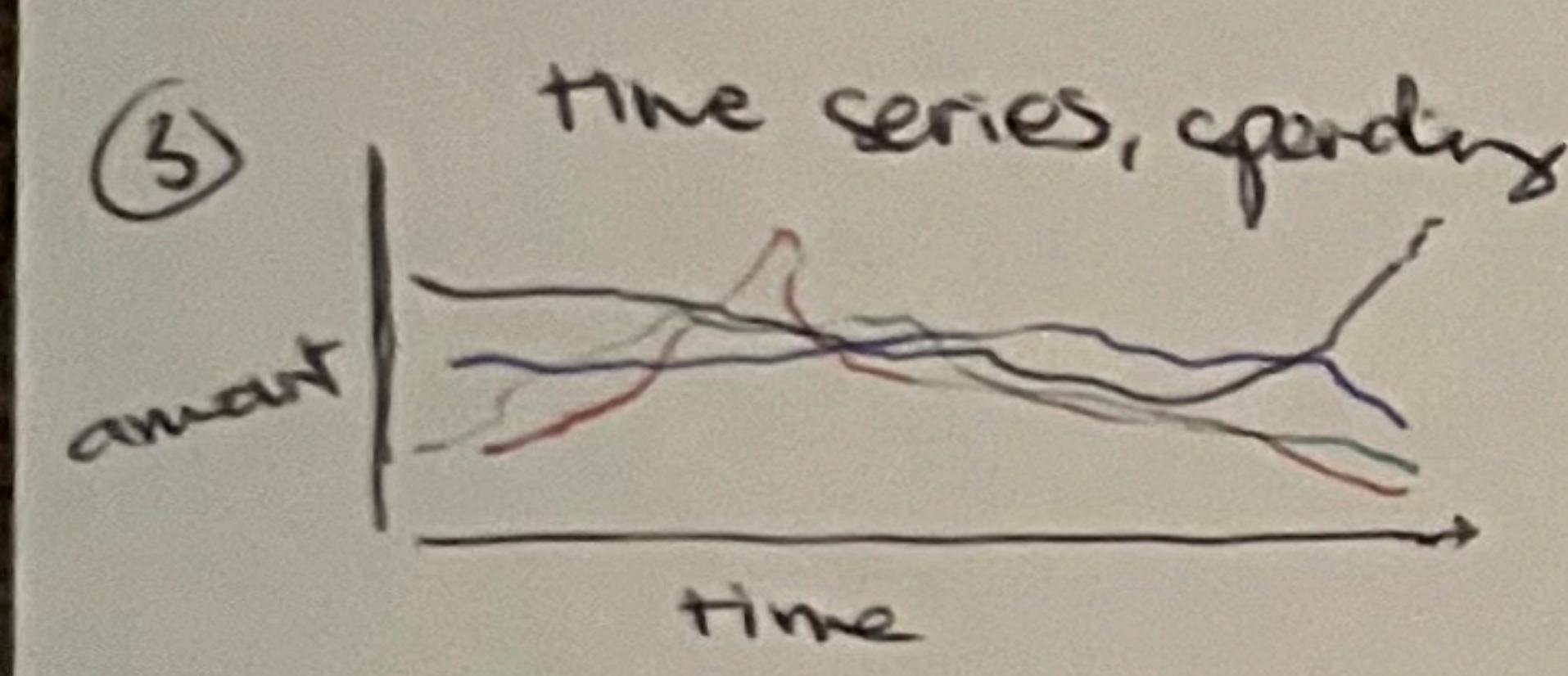
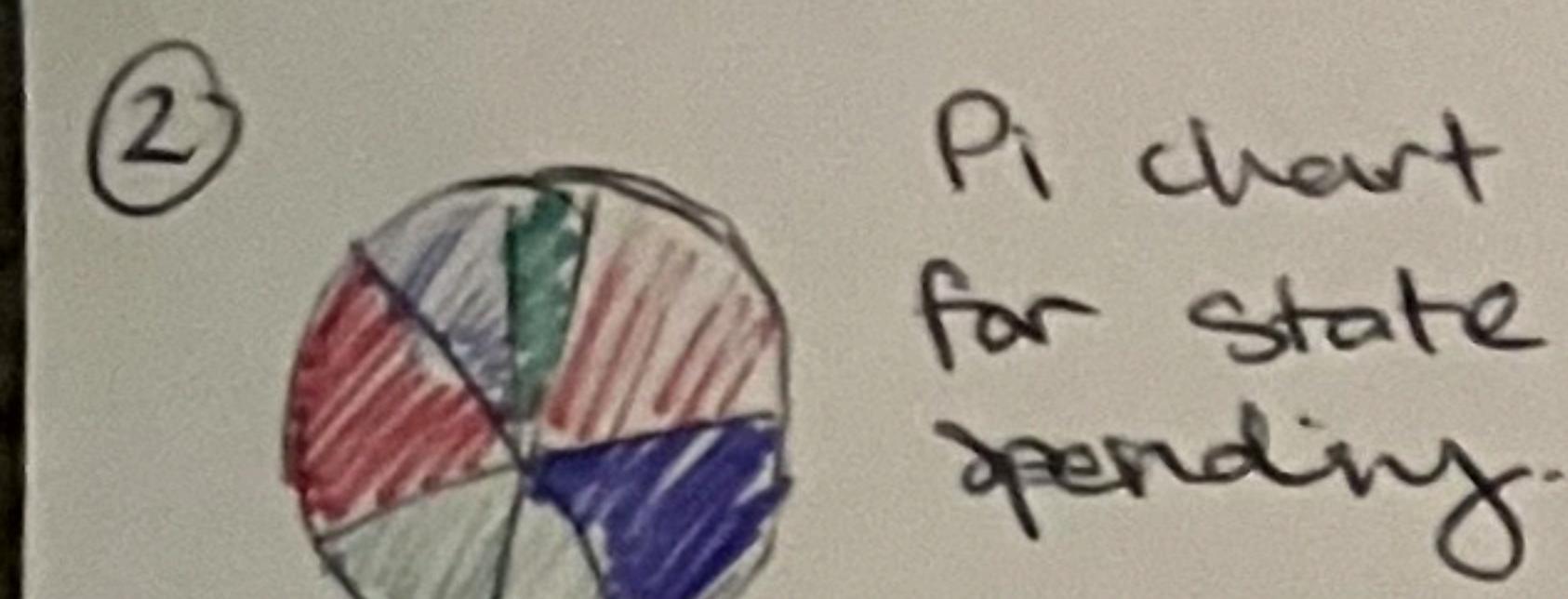
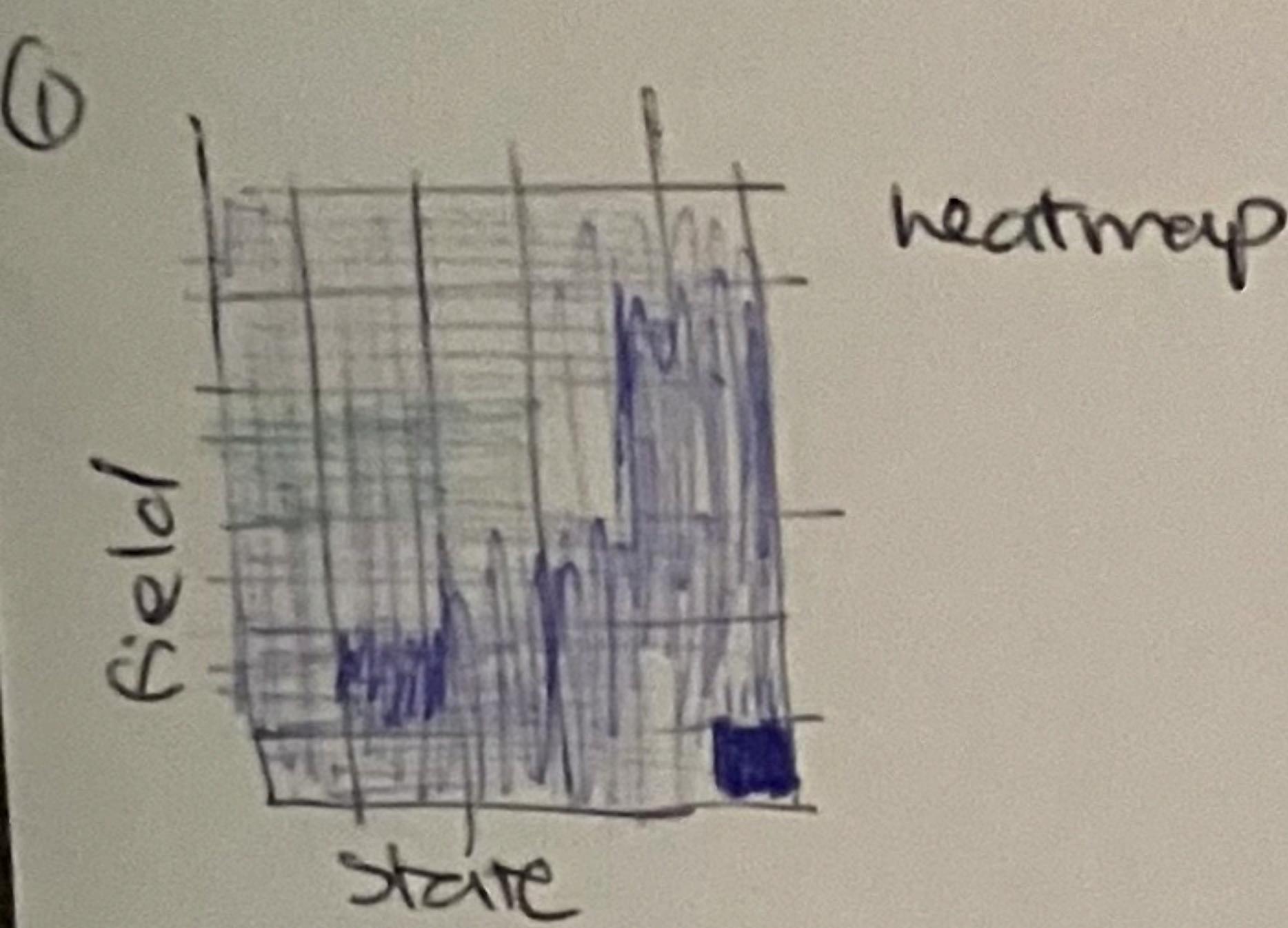
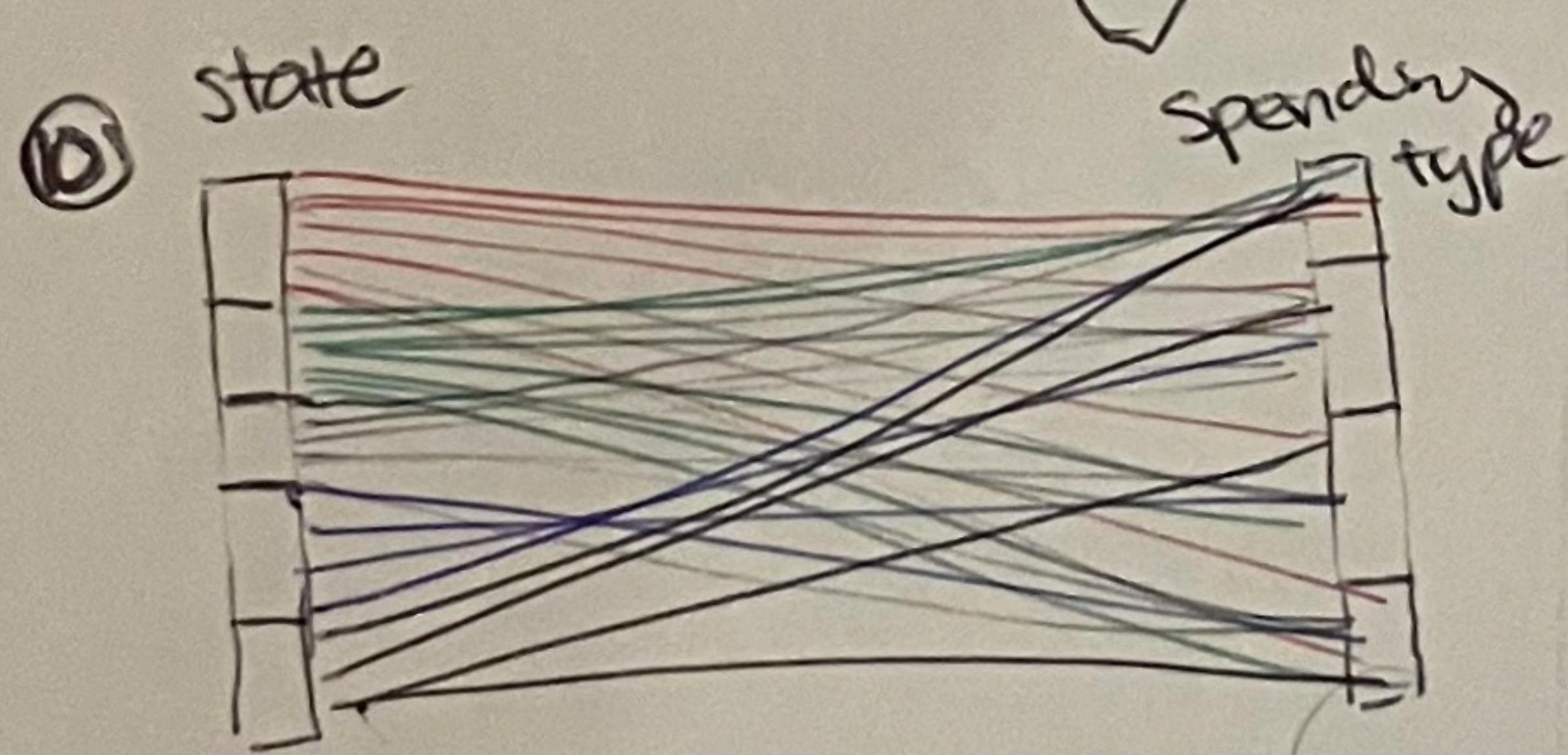
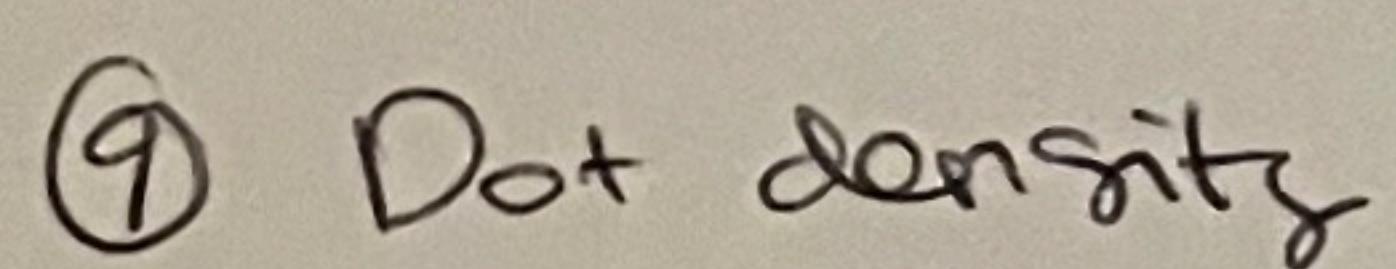
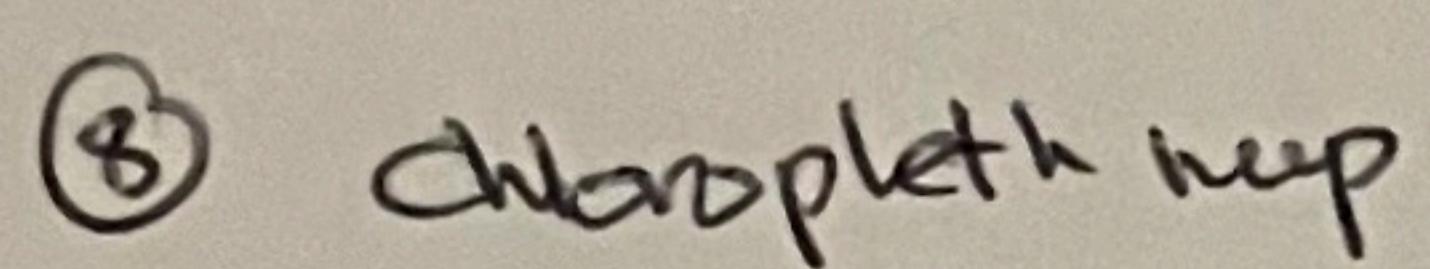
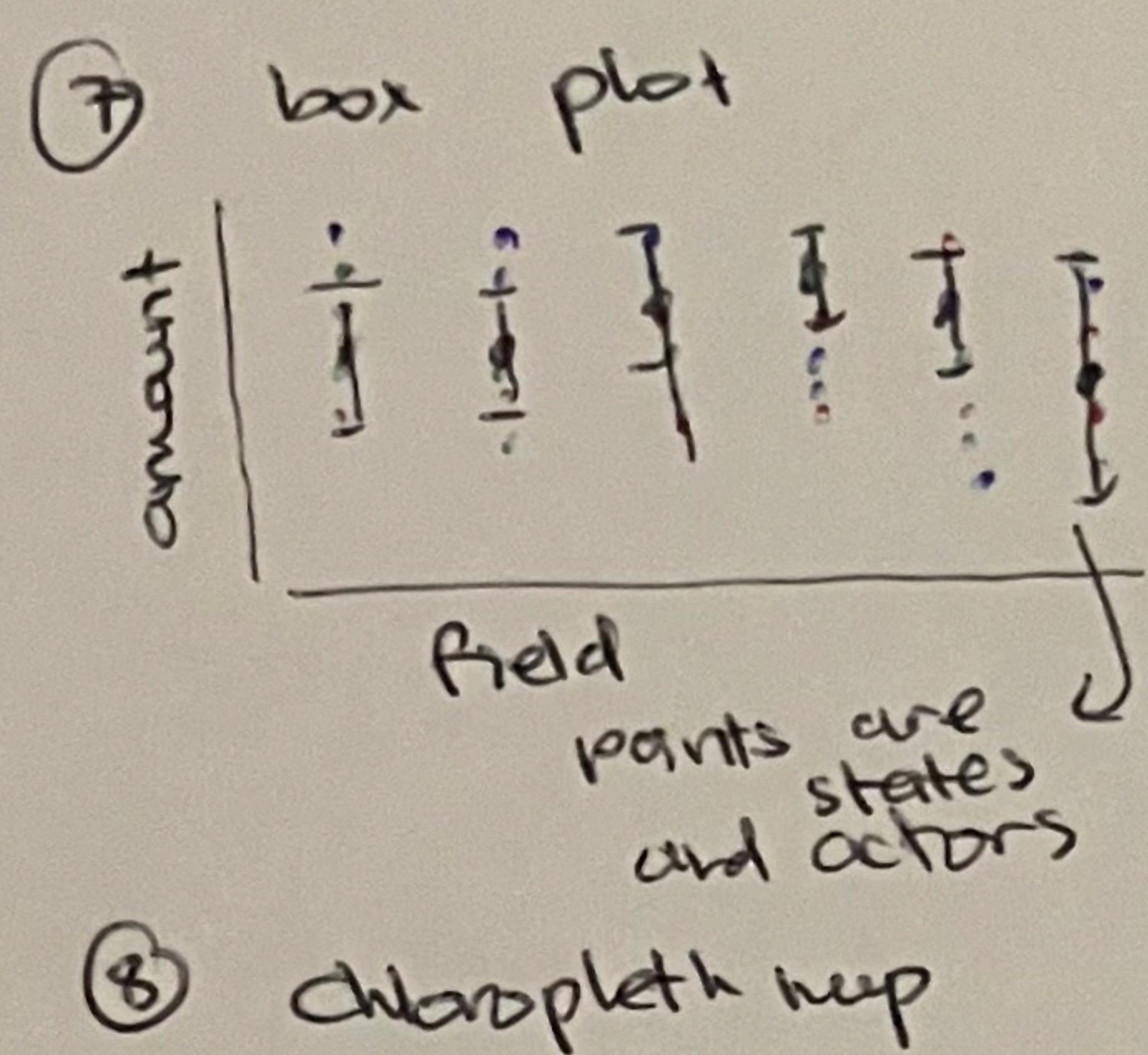
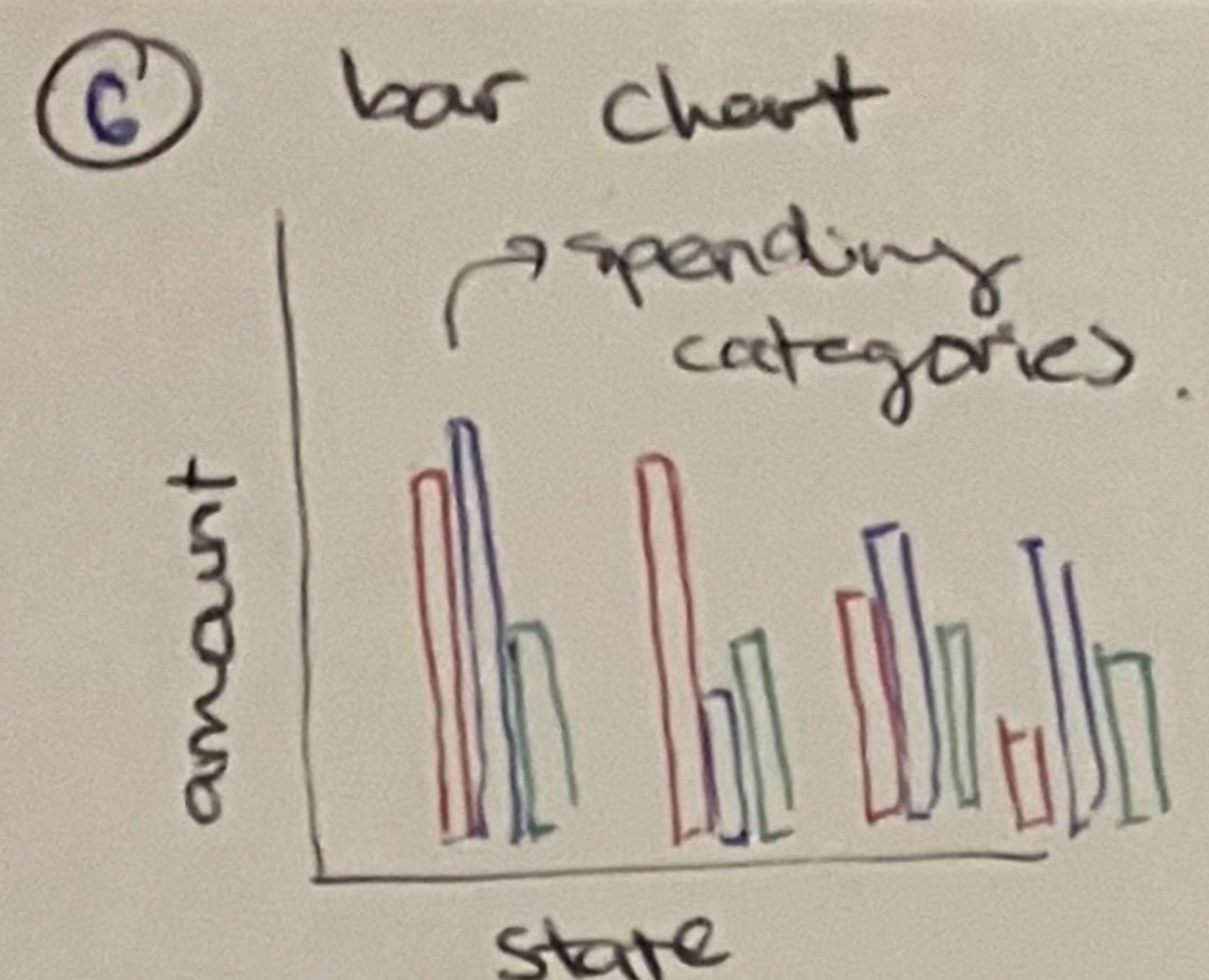


Ideas



These: research spending in Australia.



Filter

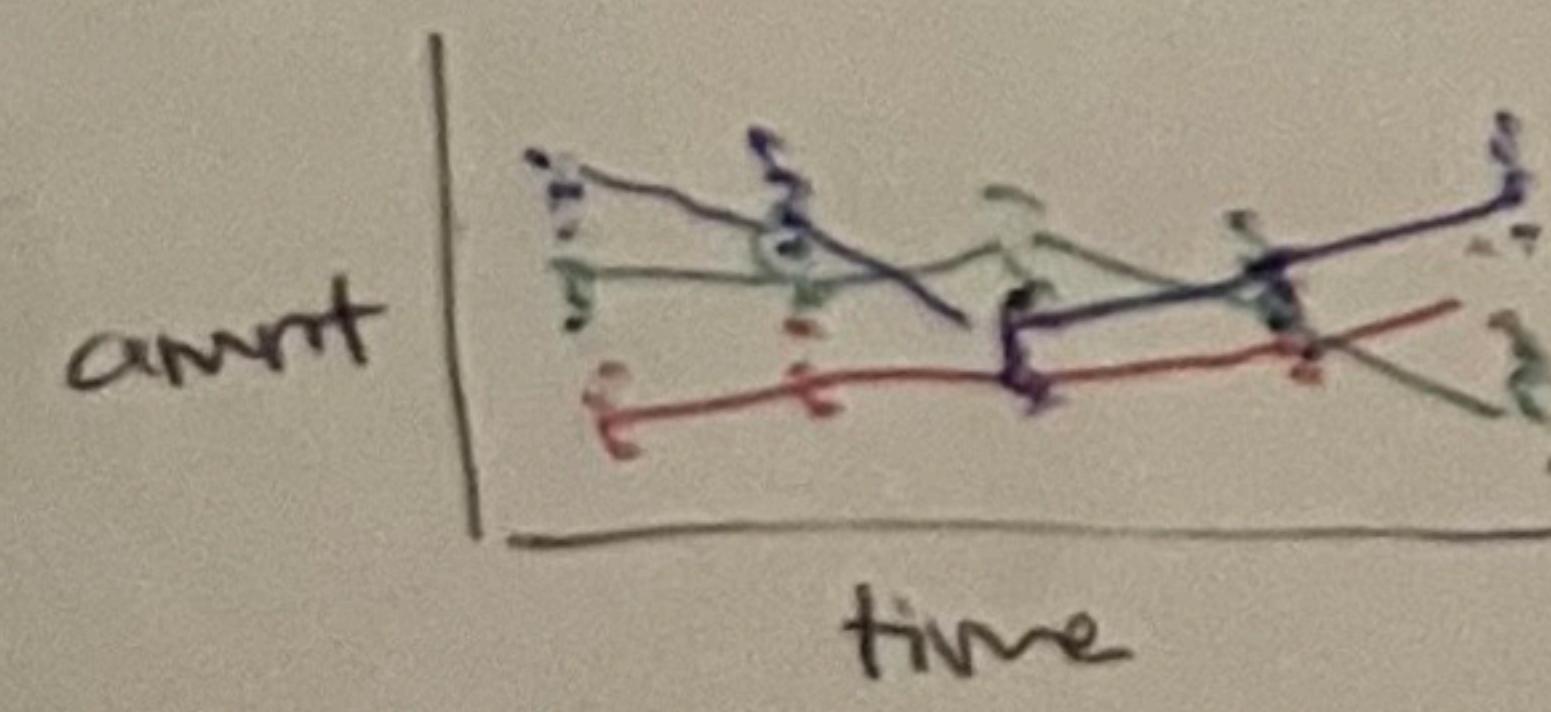
- ① don't have too many maps
- ② time series is interesting
- ③ radar ⑤ may be misleading
- ④ pie chart may not represent data in the most accurate format.
- ⑤ is sankey (10) feasible?
- ⑥ bar chart may get cluttered if there are too many fields.

Categorize

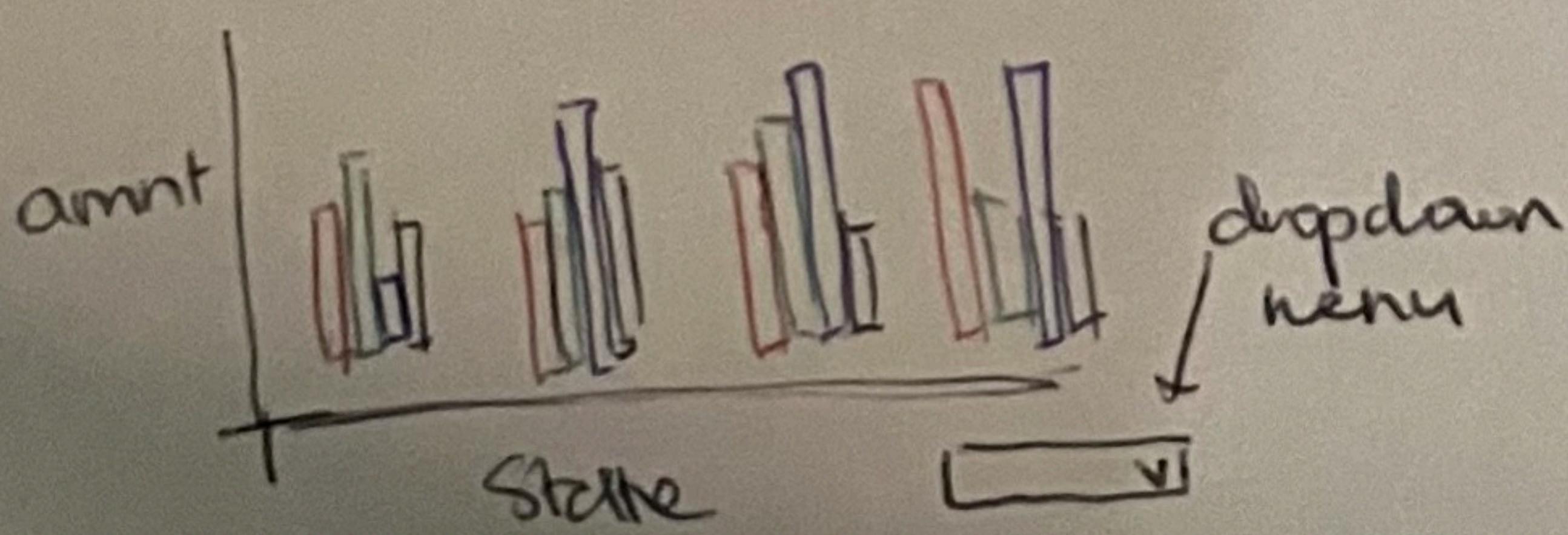
- Ⓐ comparing different states in certain categories
① ⑥ ③ ⑤ ⑧ ⑩
- Ⓑ comparing different fields of research
① ⑦ ⑥ ⑩
- Ⓒ different kinds (actors) of spending (uni, govt etc)
④ ⑦
- Ⓓ miscellaneous
⑨

Combine & Refine

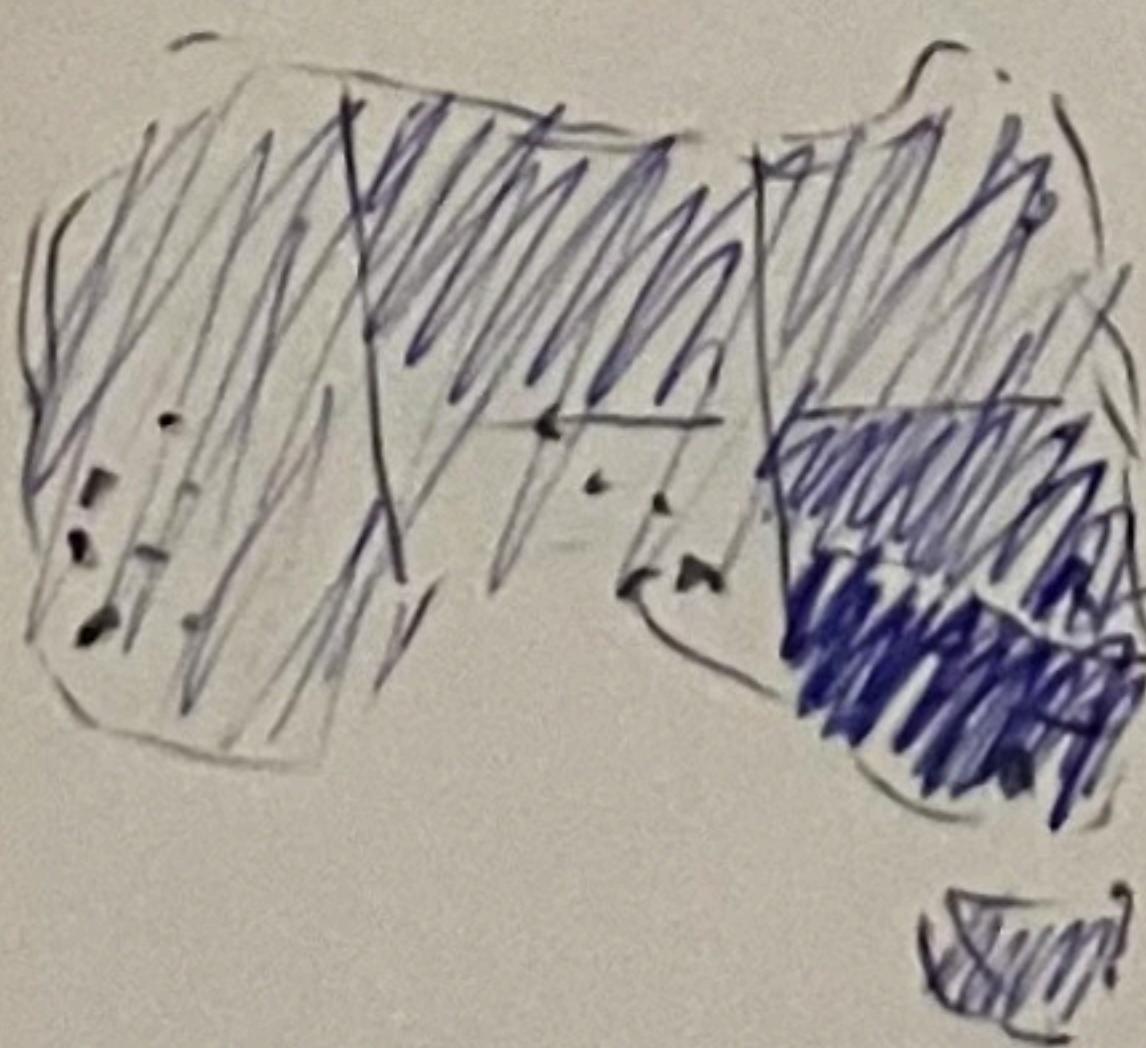
combine ③ and ⑦



remove ②, because ⑥ covers it, add filter



combine ⑧ and ⑨



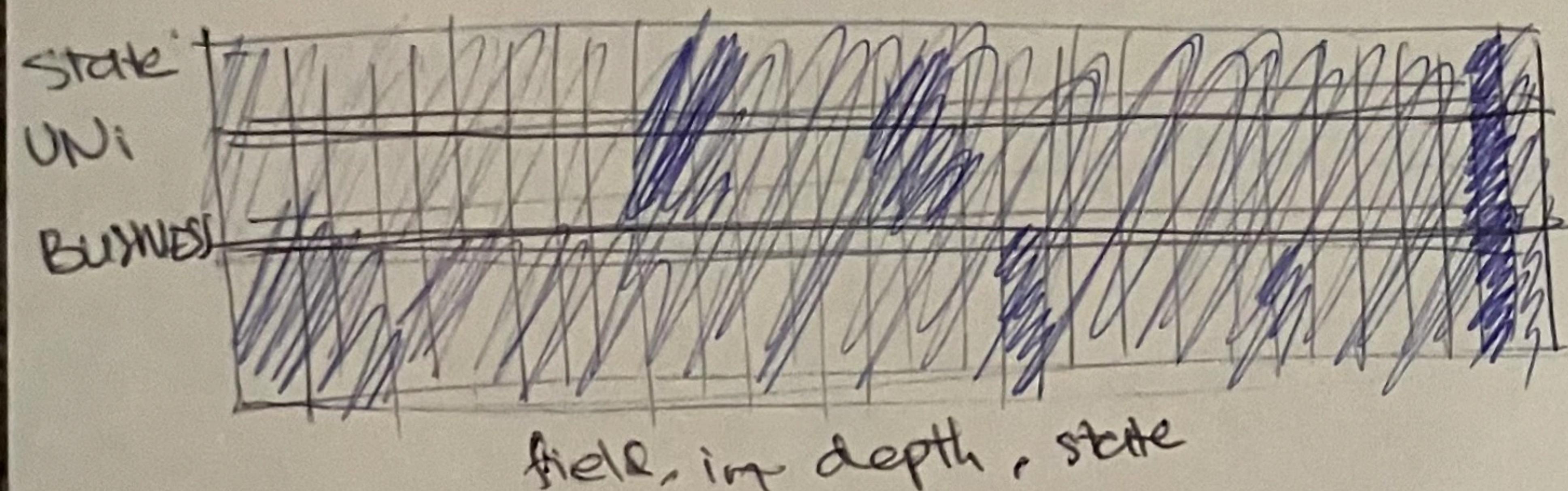
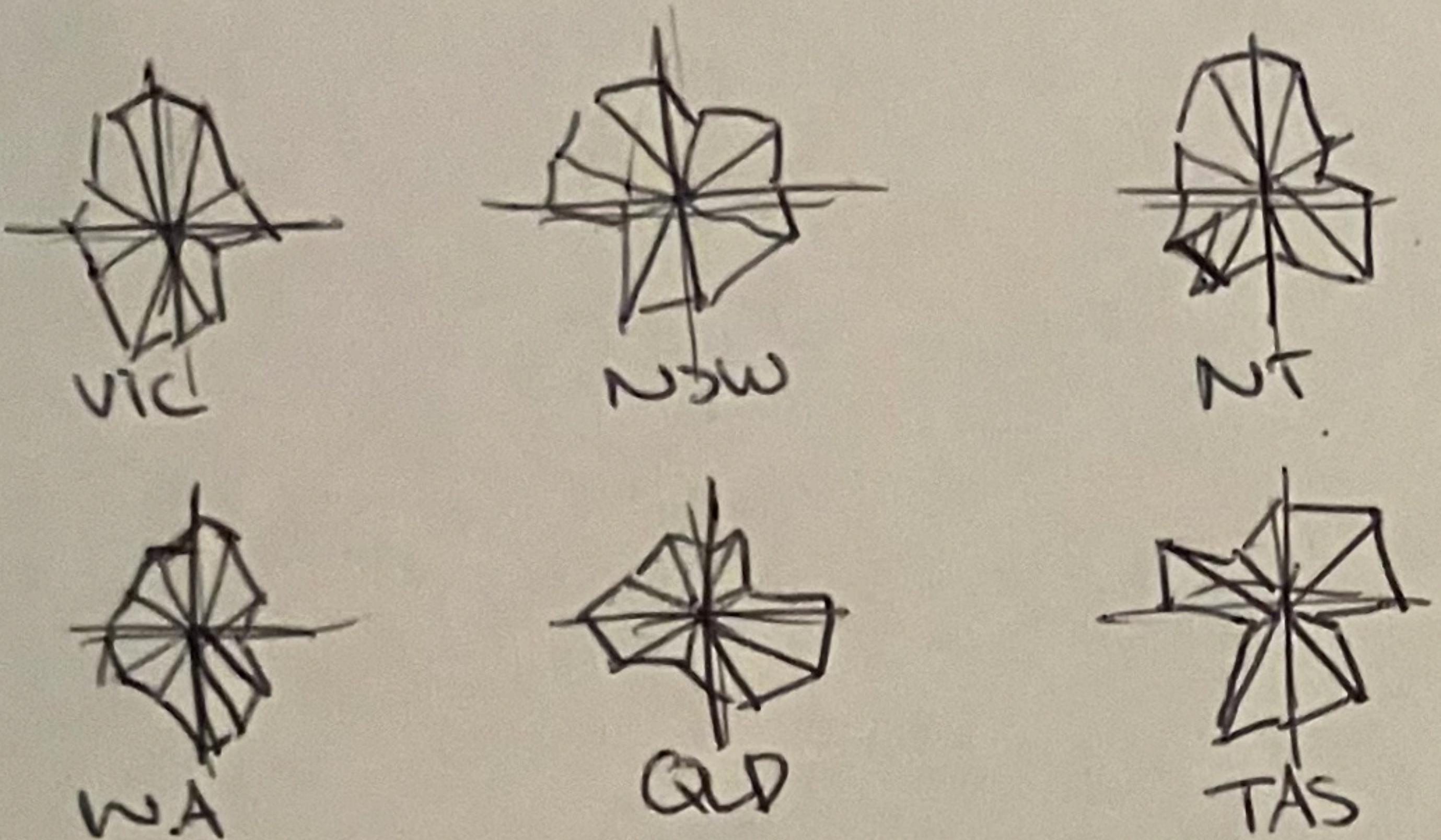
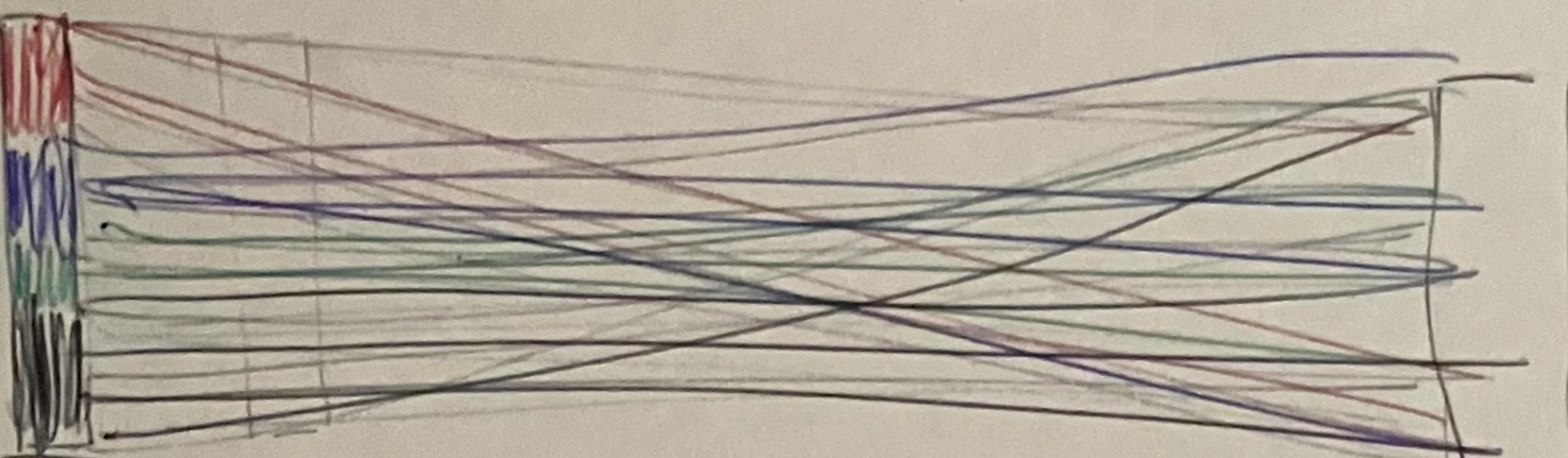
multiple marks on one map

⑩ is good.

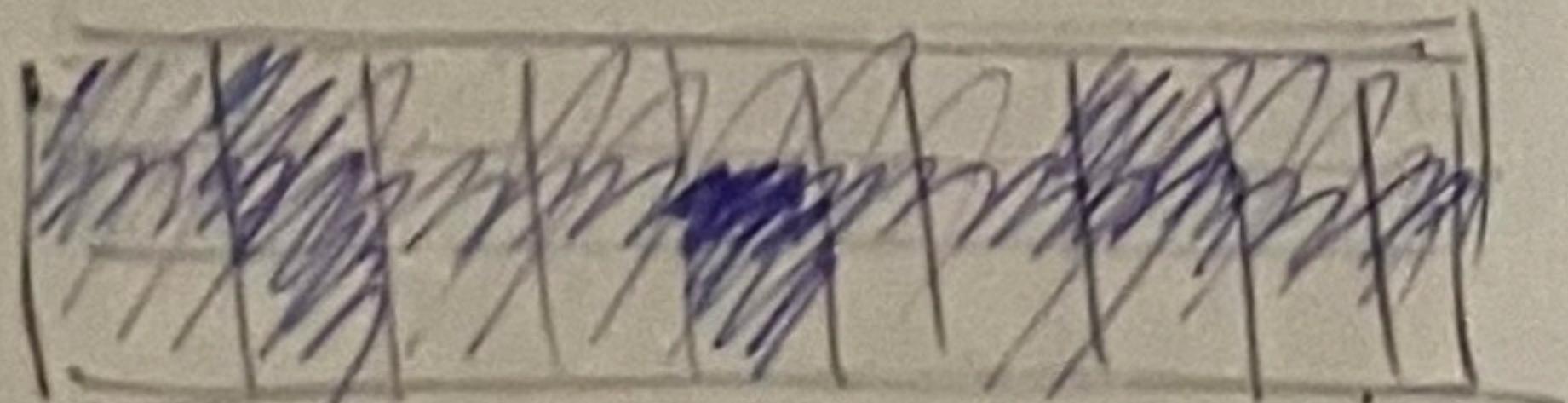
Question

- ① does the visualisation get too cluttered when there are multiple marks?
- ② does my dataset allow for certain visualisations?
- ③ how much interactivity creates positive exp for viewers?

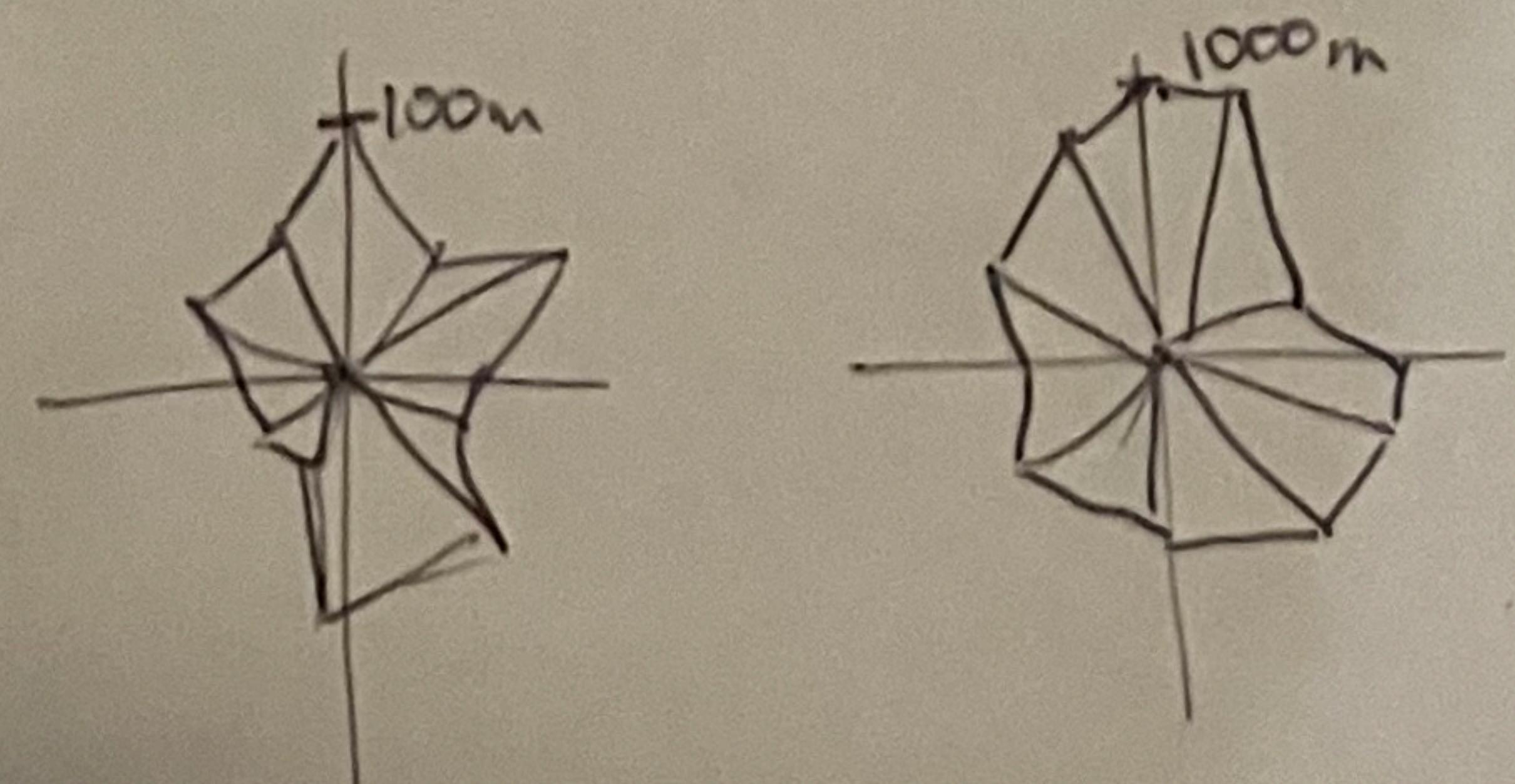
Layout R&D IN AUSTRALIA



Focus



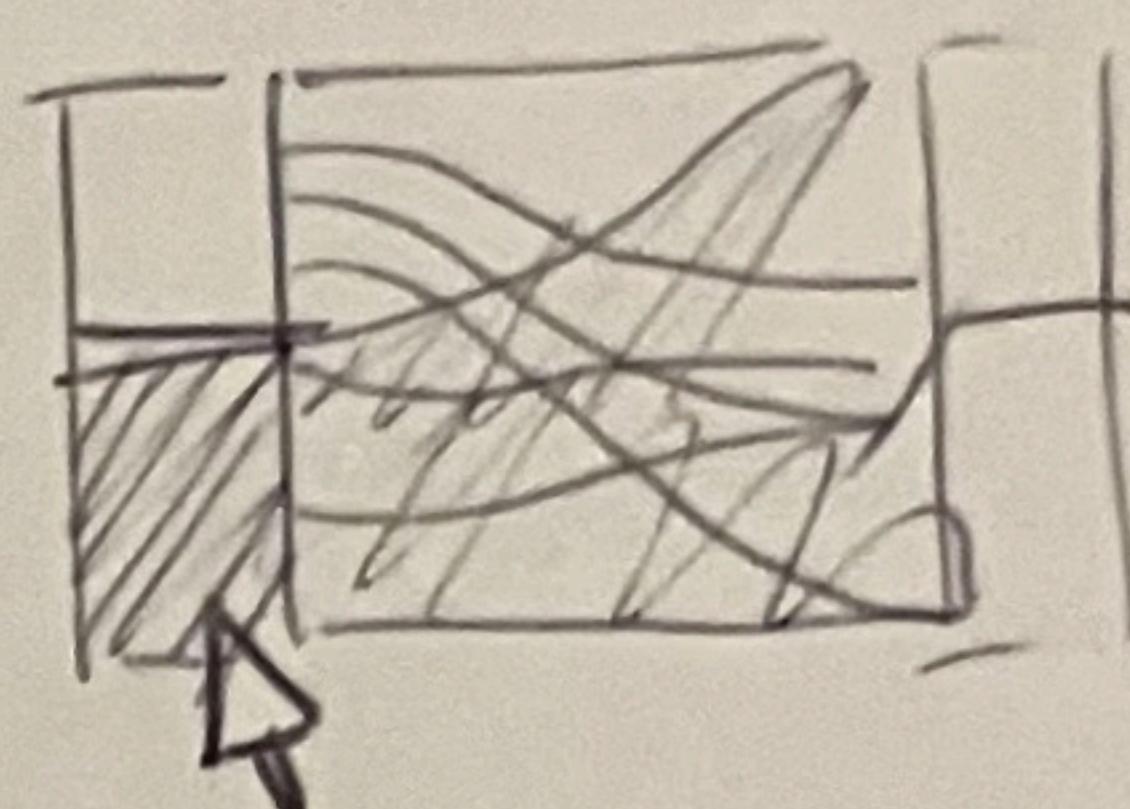
heat map for absolute data



← radar diagrams for data normalised to metric.

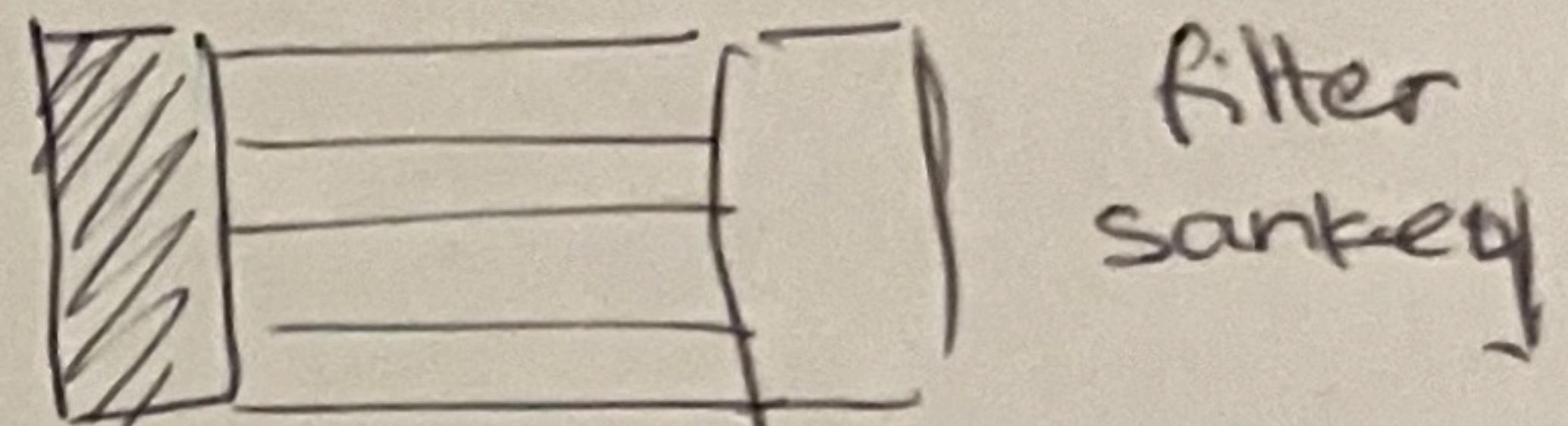
Title: wide screen vis.
Author: Josh Riantoputra
Date: 05/10/2024
Task: 2nd Design sheet

Operation

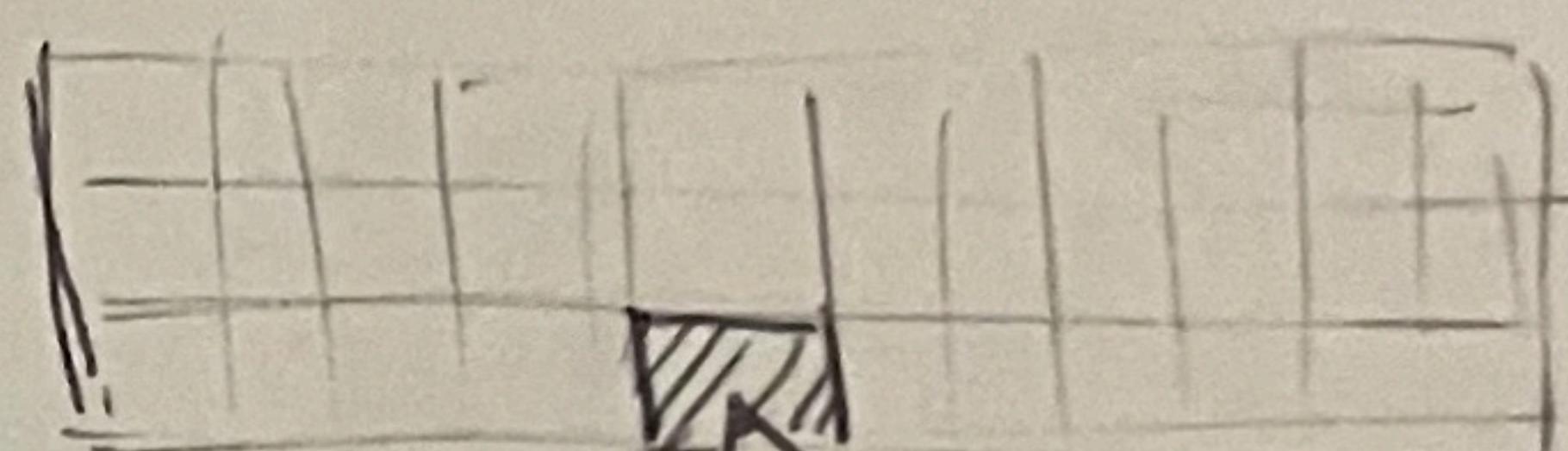


mouseover to highlight

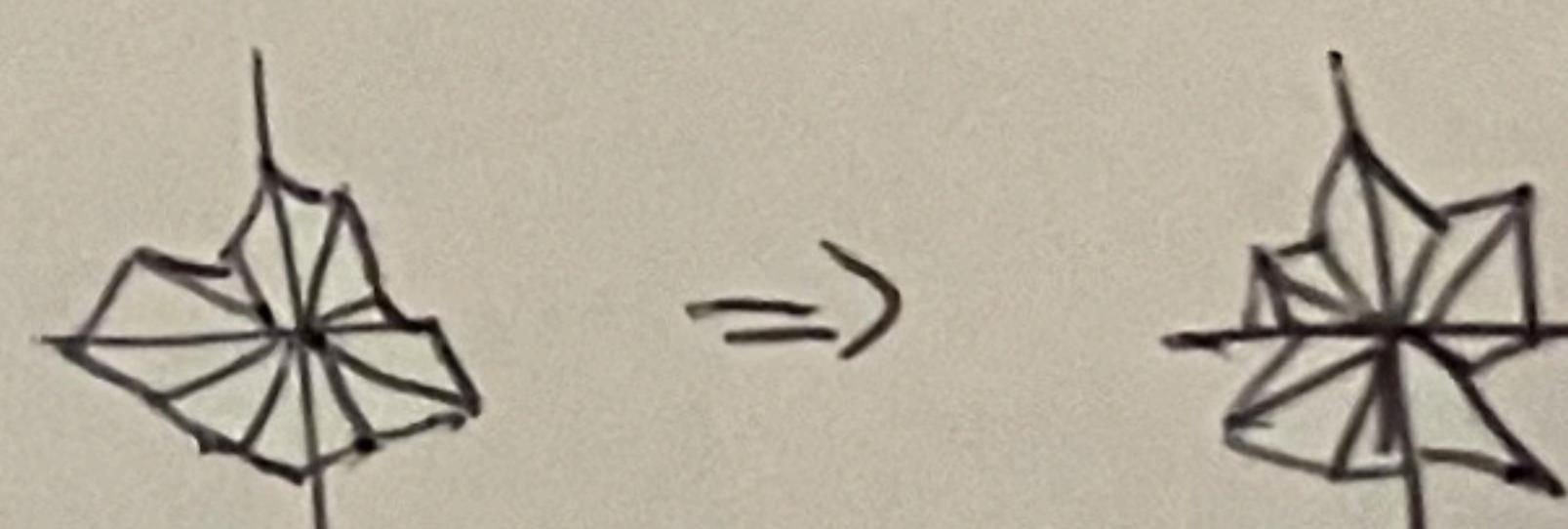
→ click



filter selected



highlight on
mouseover
click!



rearrange radar map.

Discussion

• > !!! NO MAP. ADD MAP.

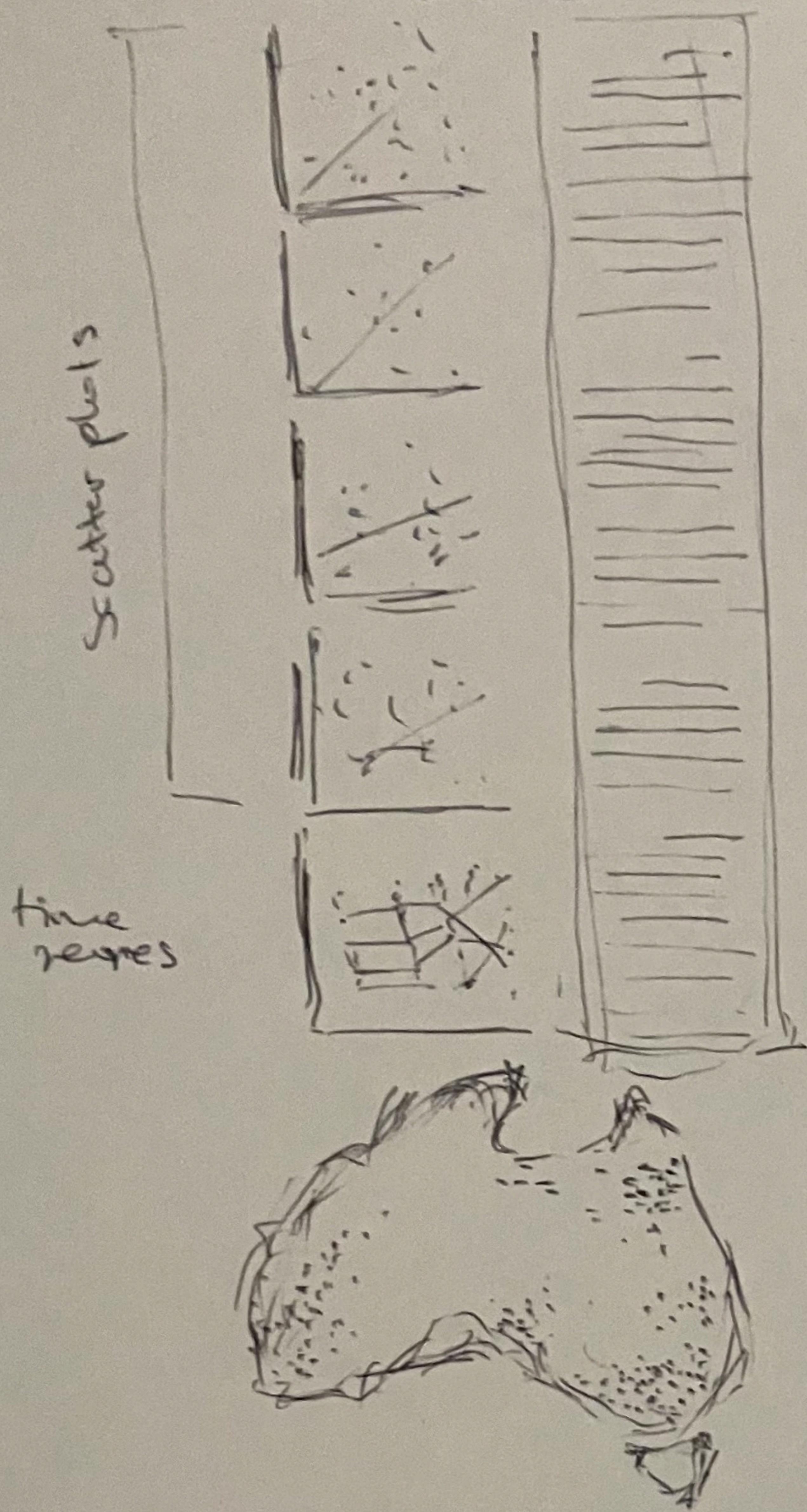
• > How to normalise data? by population? by total spending?

• > will reorienting the radar maps be too confusing for readers?

• > annotations?

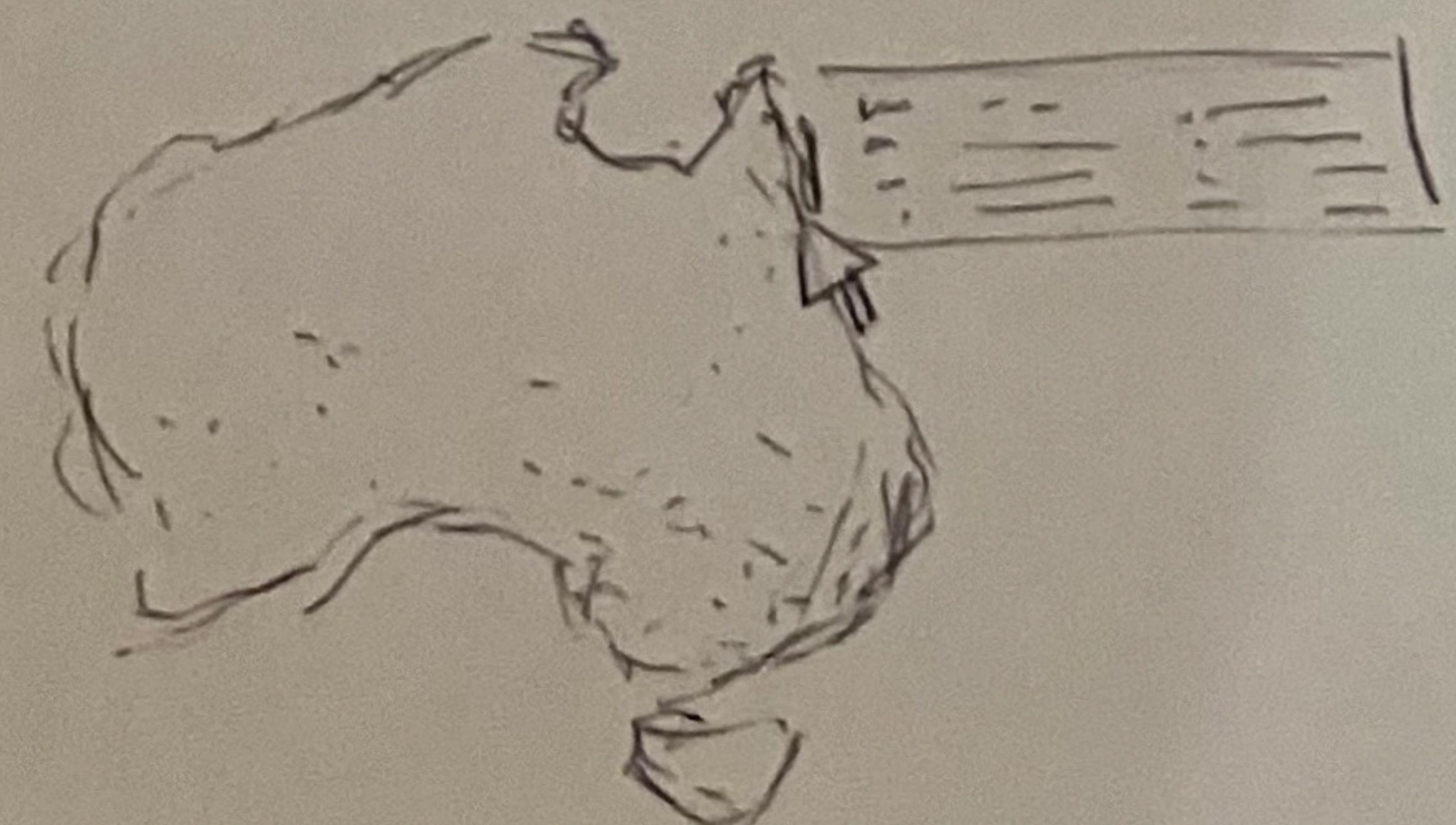
Layout

SPENDING ON R&D IN AUSTRALIA



Focus

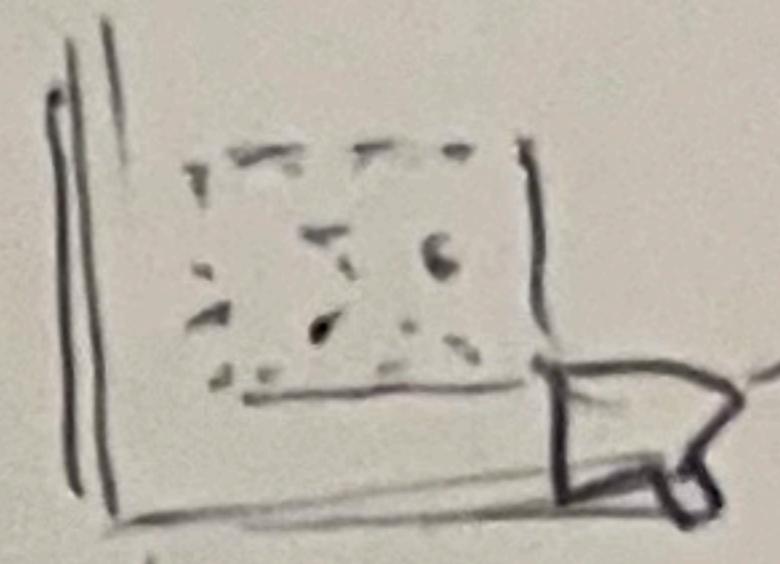
each point should be one paper, with fields like "research type", "funding", "university", etc



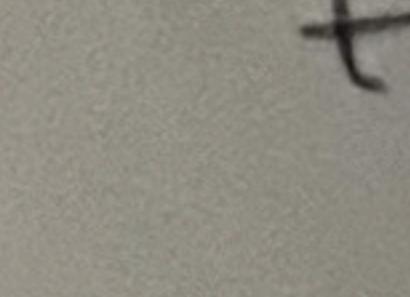
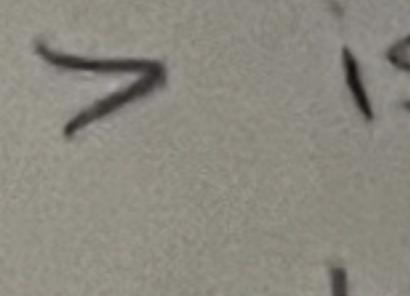
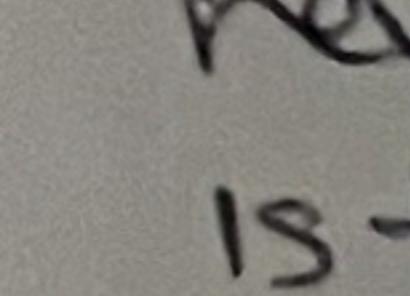
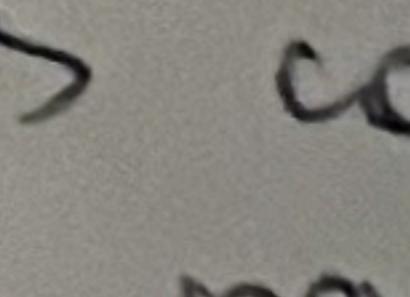
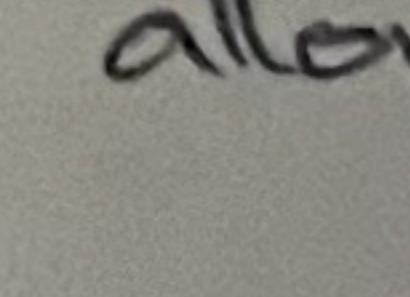
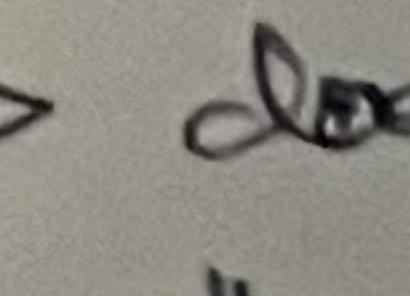
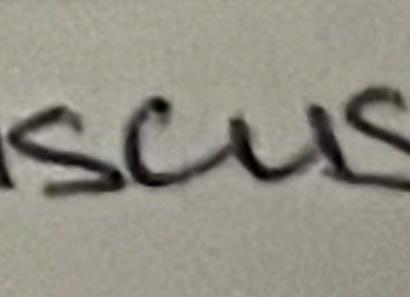
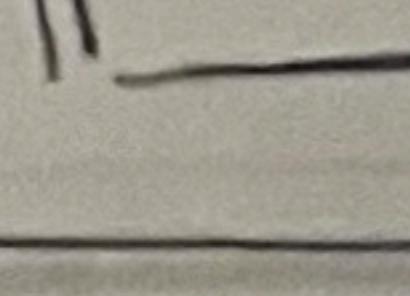
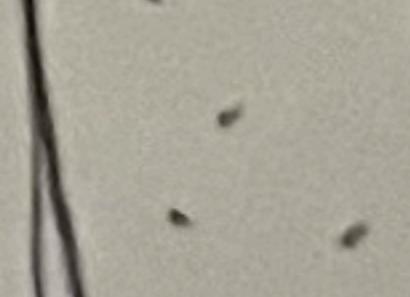
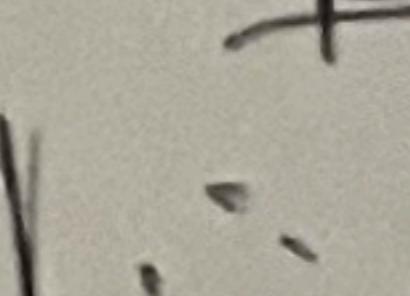
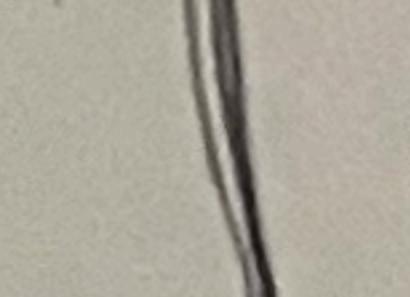
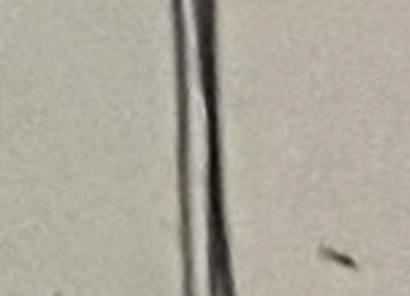
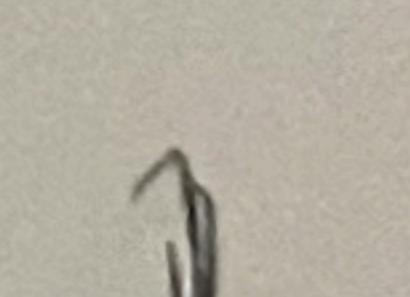
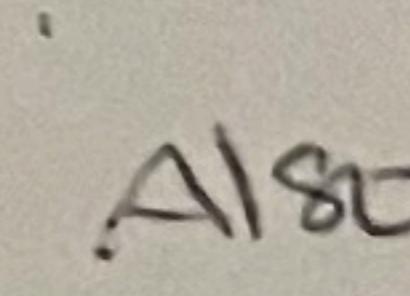
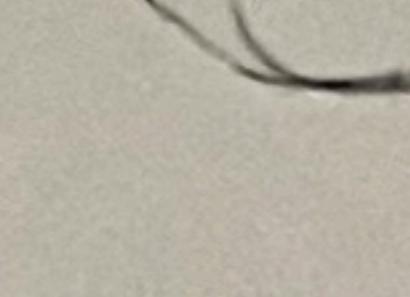
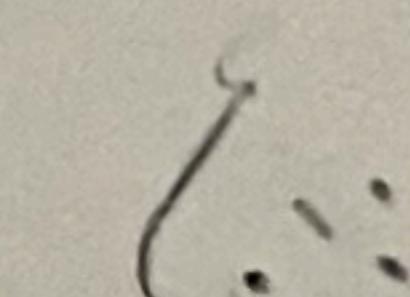
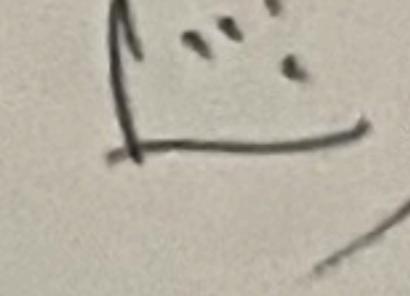
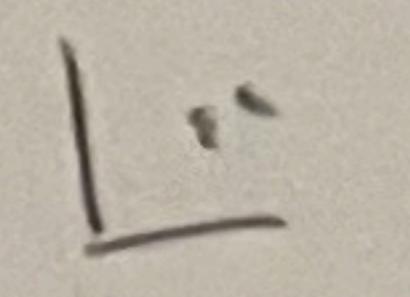
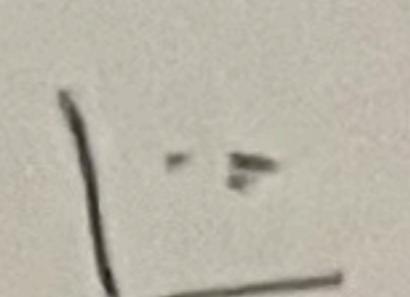
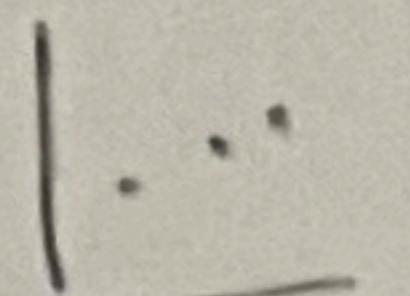
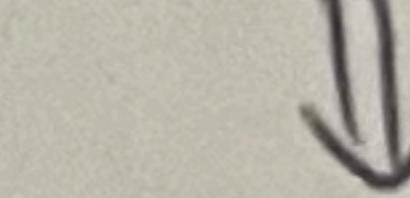
- extensive tooltip
- to draw data from each research paper in depth

Title: Many points vis
Author: Josh Rantoputra
Date: 05/10/2024
Task : 3rd Design Sheet

Operation

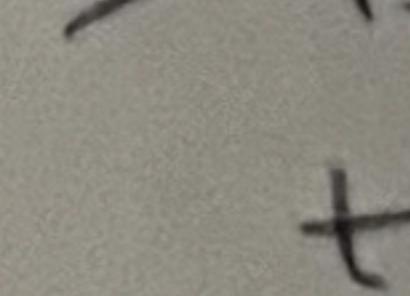
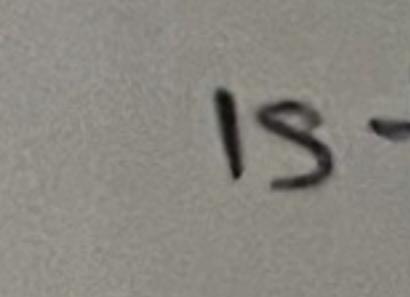
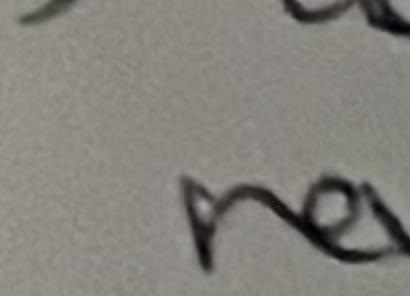
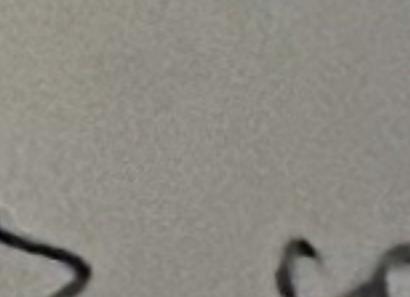
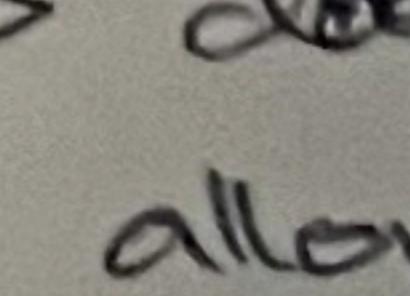
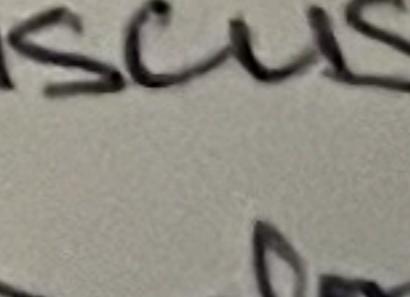
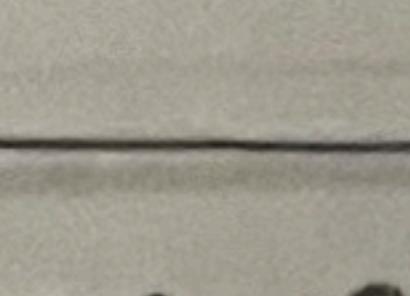
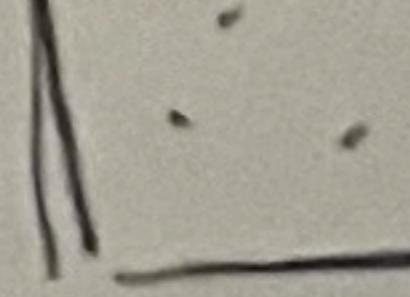
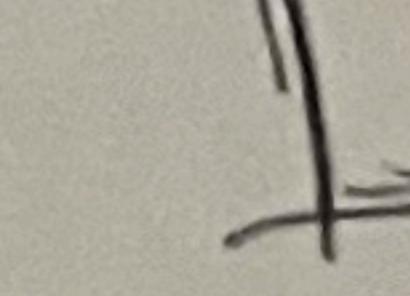
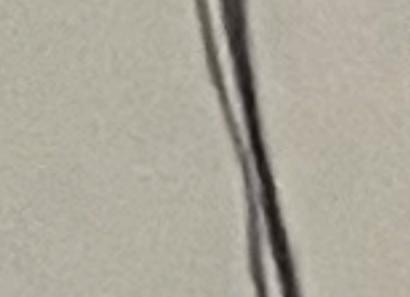
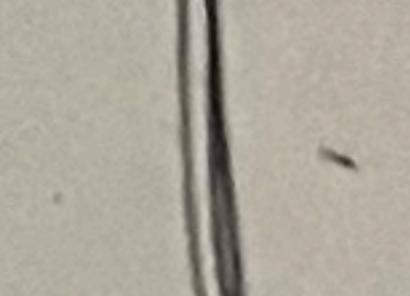
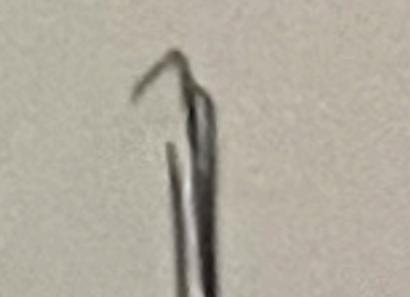


→ click and drag to select your research papers!

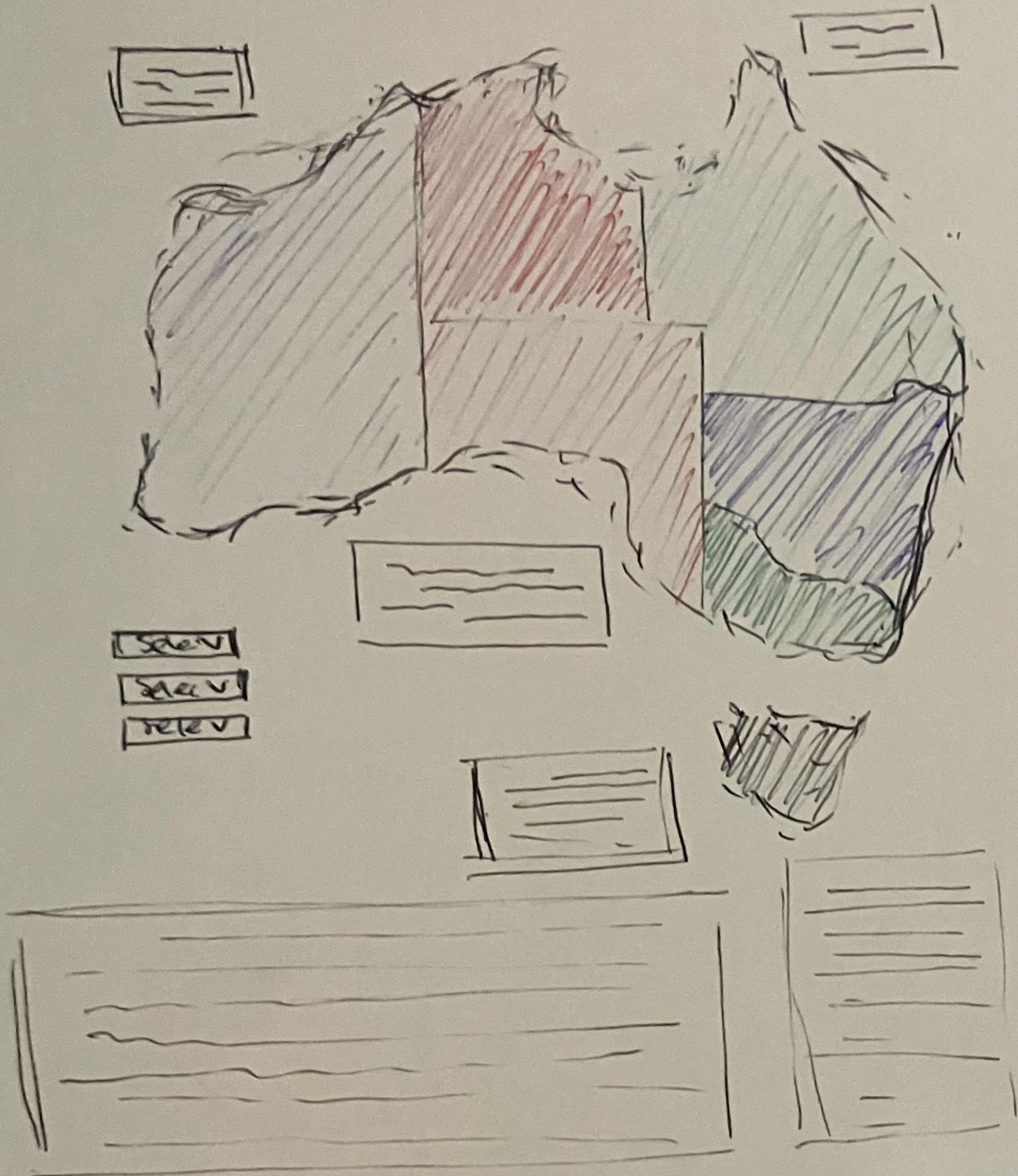


apply filter across all diagrams in visdom

Also



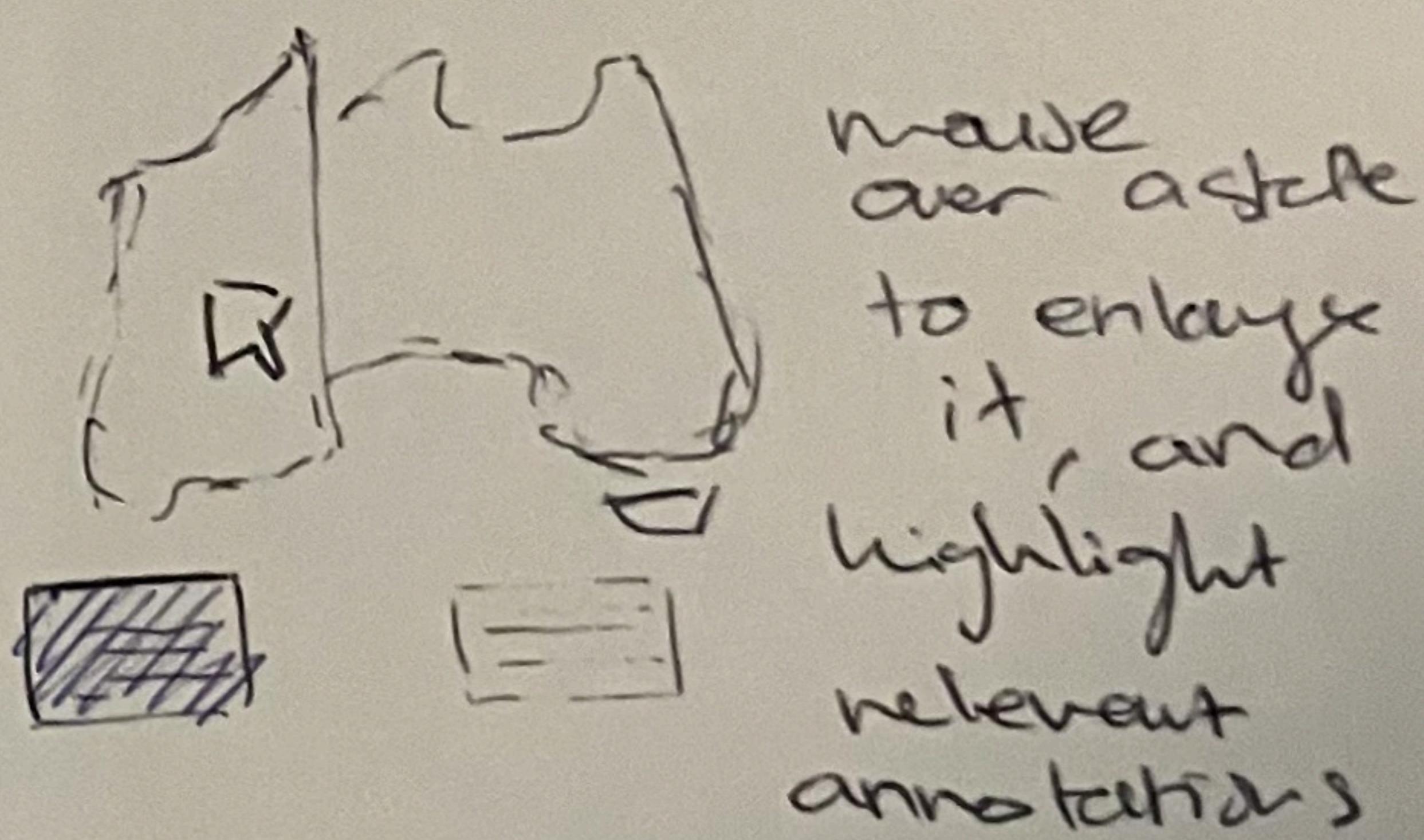
Layaut R&D SPENDING IN AUSTRALIA



Title: Super-Interactive map
 Author: Josh Riantoputra
 Date: 6/10/2024
 Task: 4th design sheet

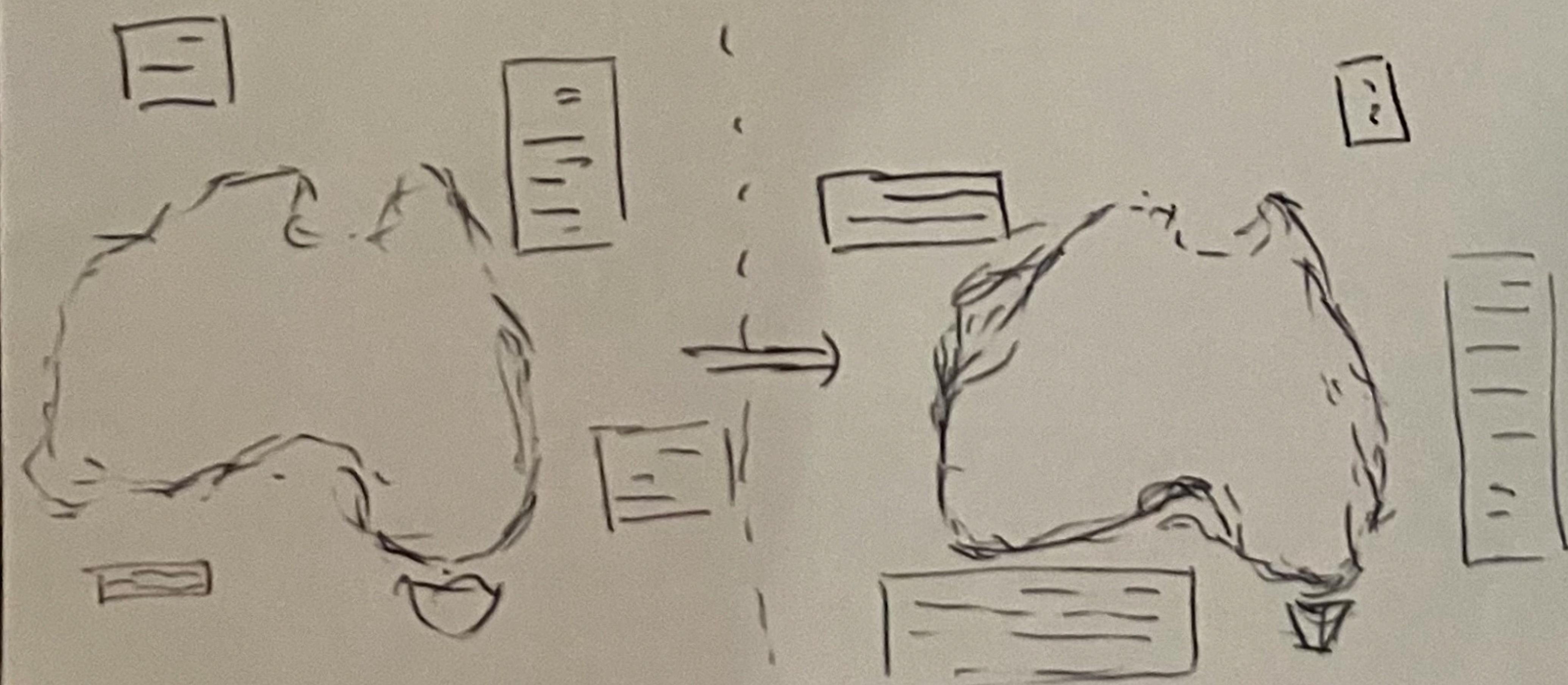
Operation

- Three Select UI drop down menus which respectively
- change between Govt, uni and business spending per state
 - change between different fields of research, incl. science, arts, etc.
 - change the goal of research, e.g. defence, health, etc.



Focus

click!



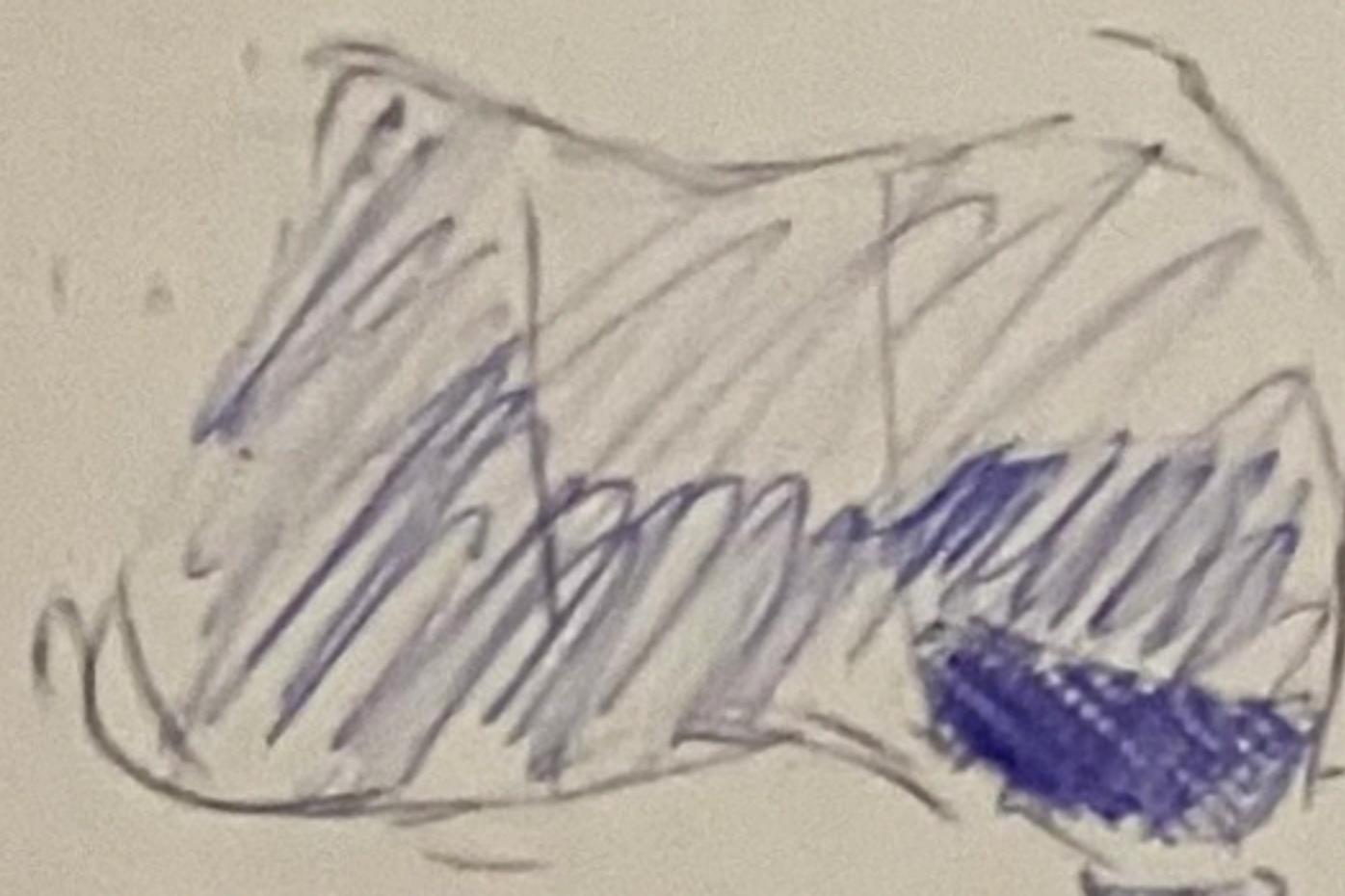
changing filters dynamically changes displayed annotations.

Discussion

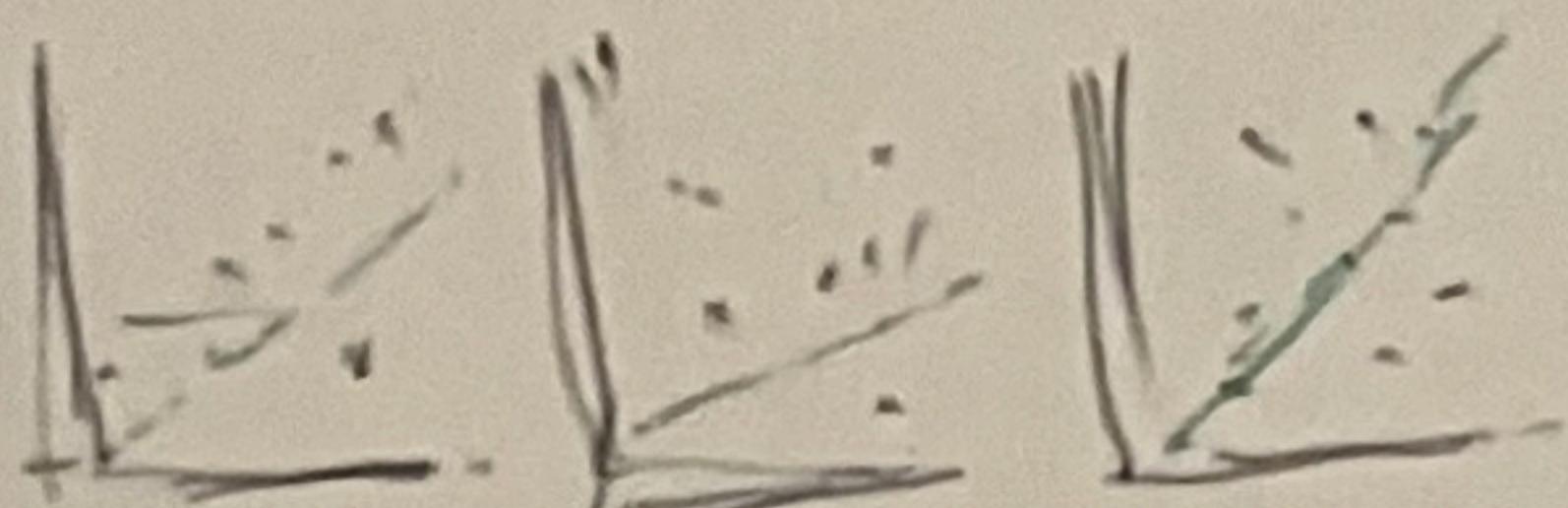
- what to do for empty data (e.g. business and field doesn't exist)
- does only one visualisation count as empty
- is this too complex?
 How to make a guided tour for this concept.

Layout

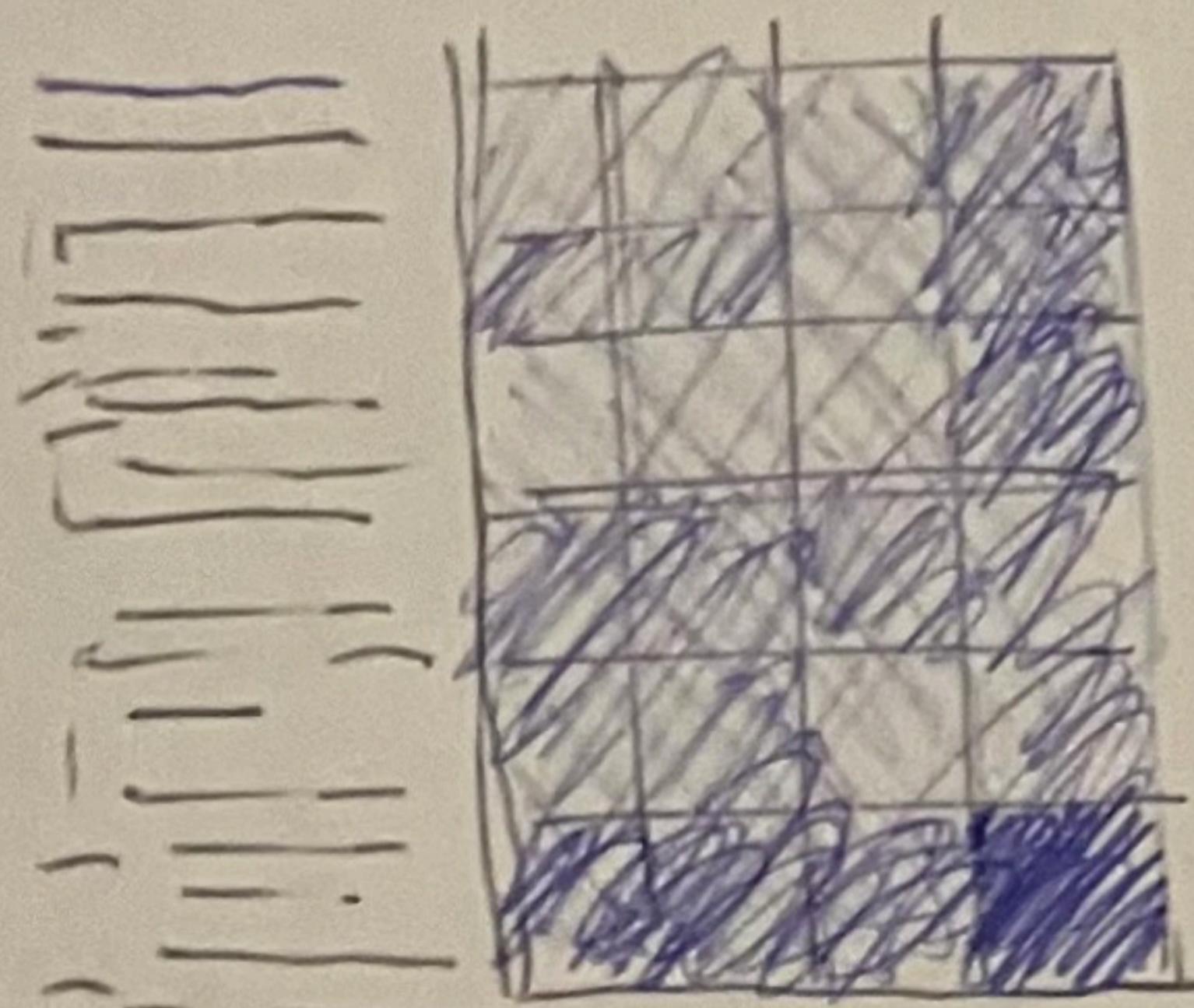
SPENDING ON RESEARCH IN AUSTRALIA



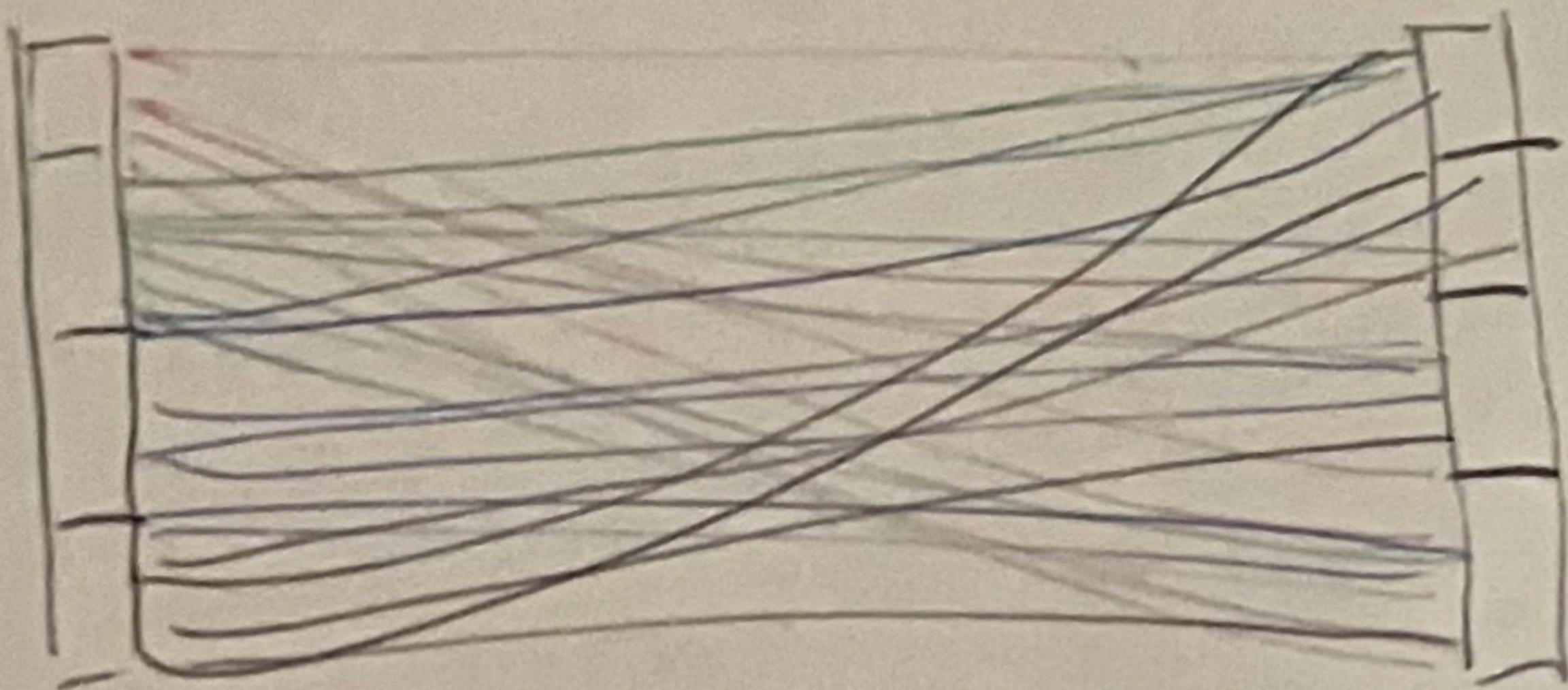
← spending



← compare
govt, uni,
business

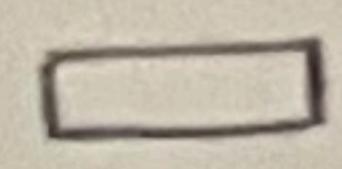
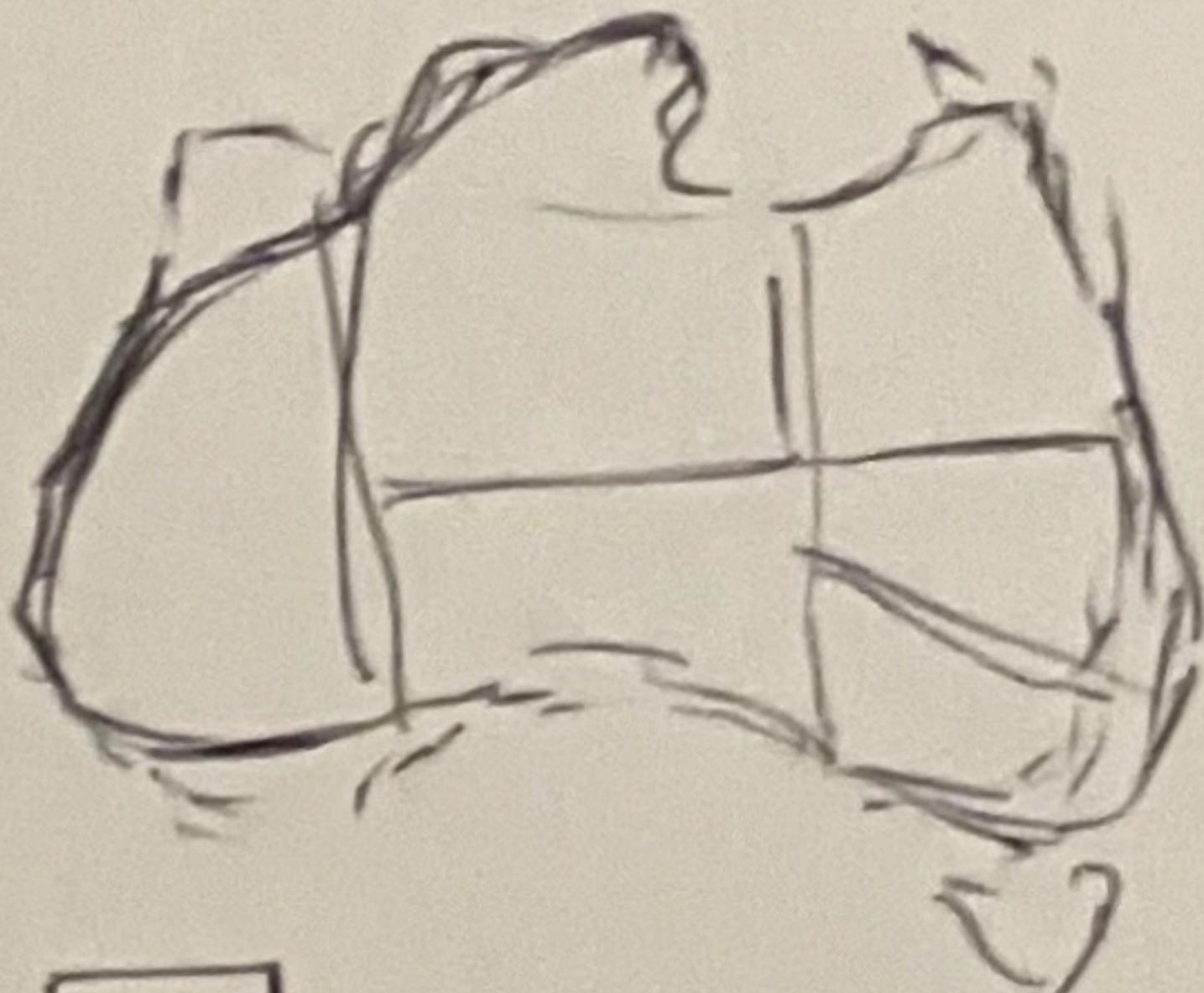


← goal
vs
state

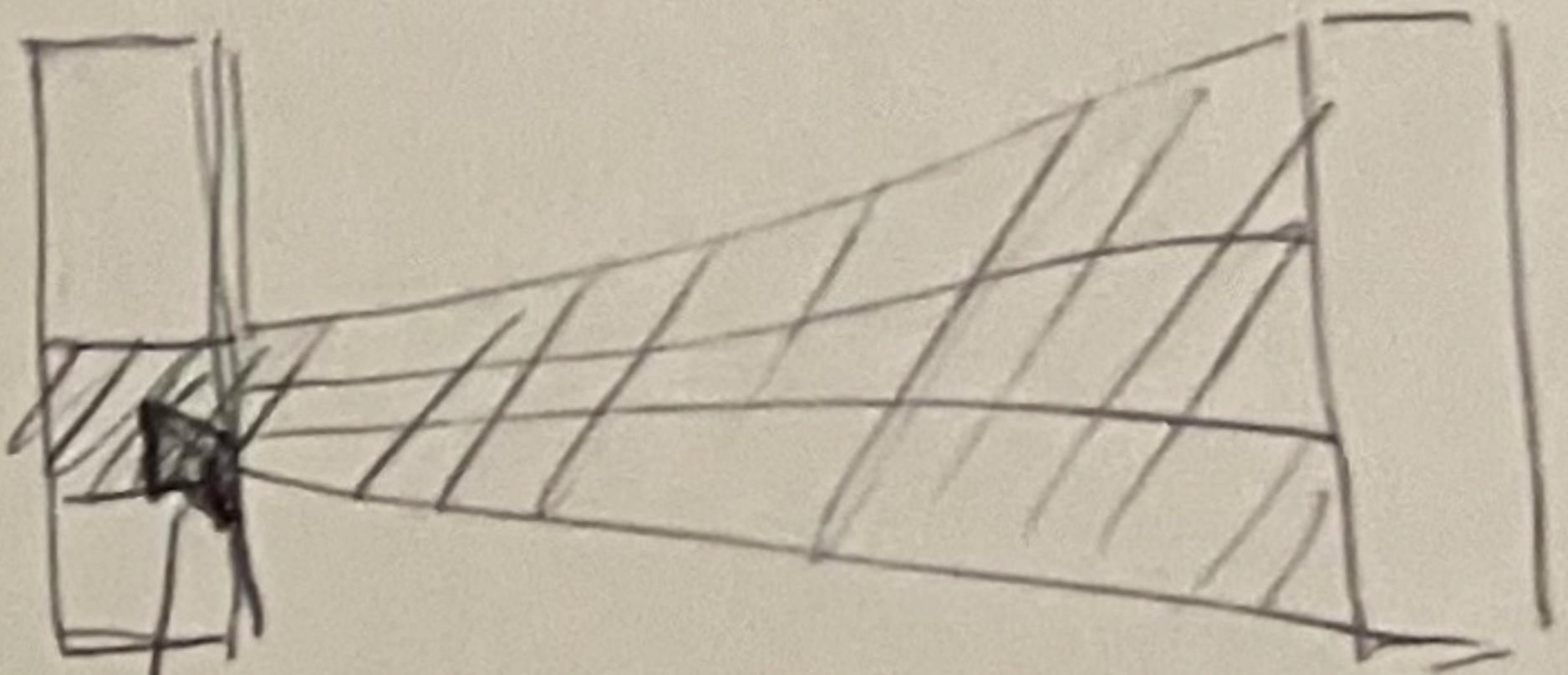


← field
vs state

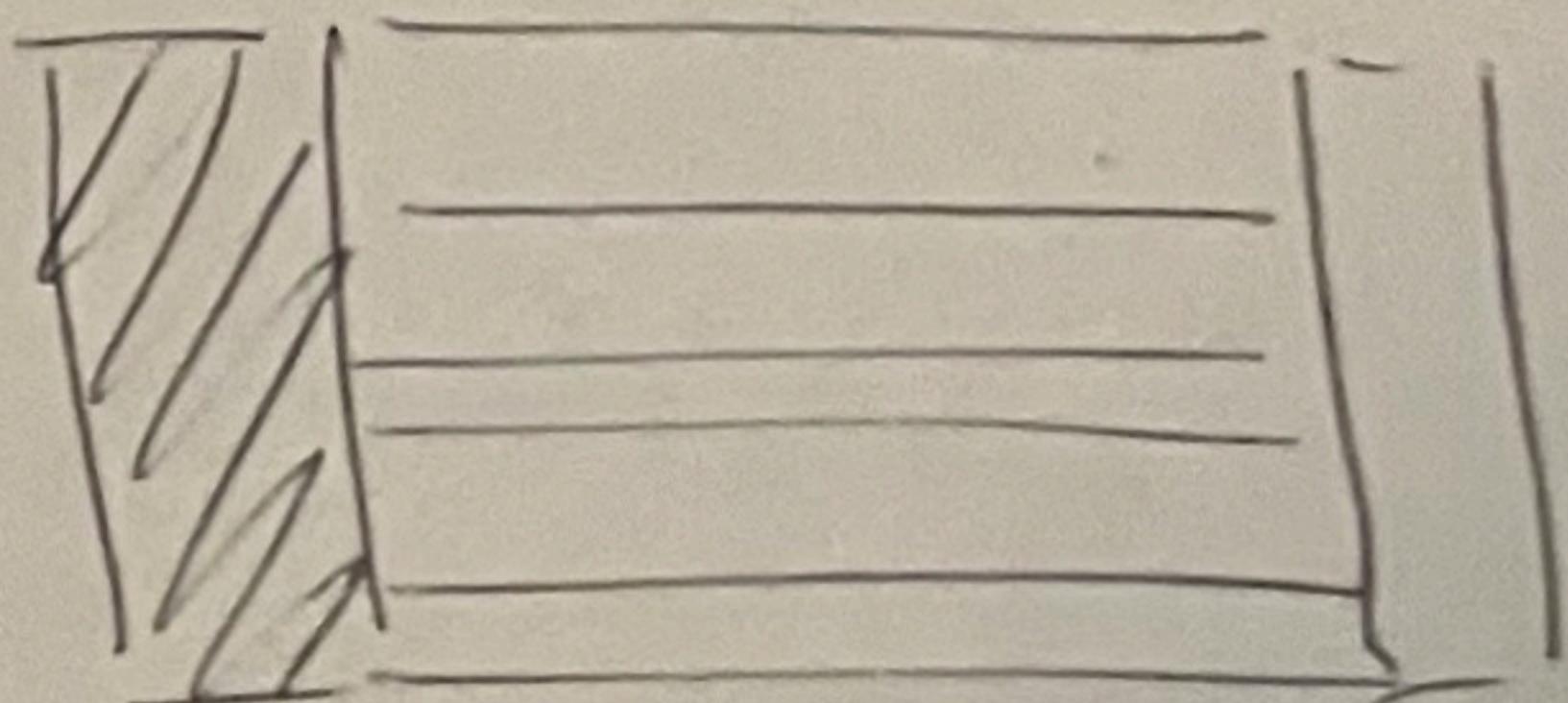
Operation



→ drop down menu
to select type of
expenditure.

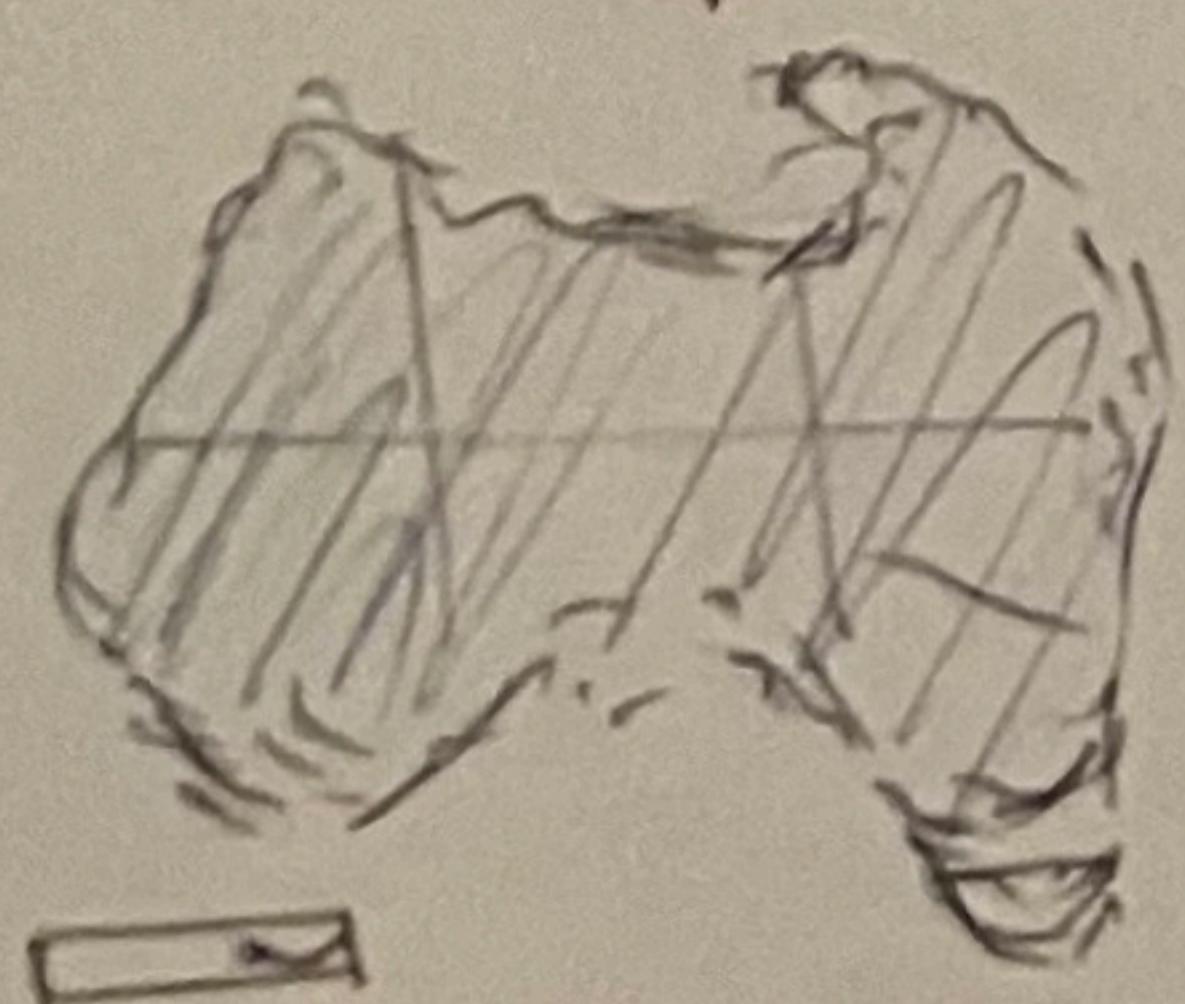


→ mouse over state
highlights colour

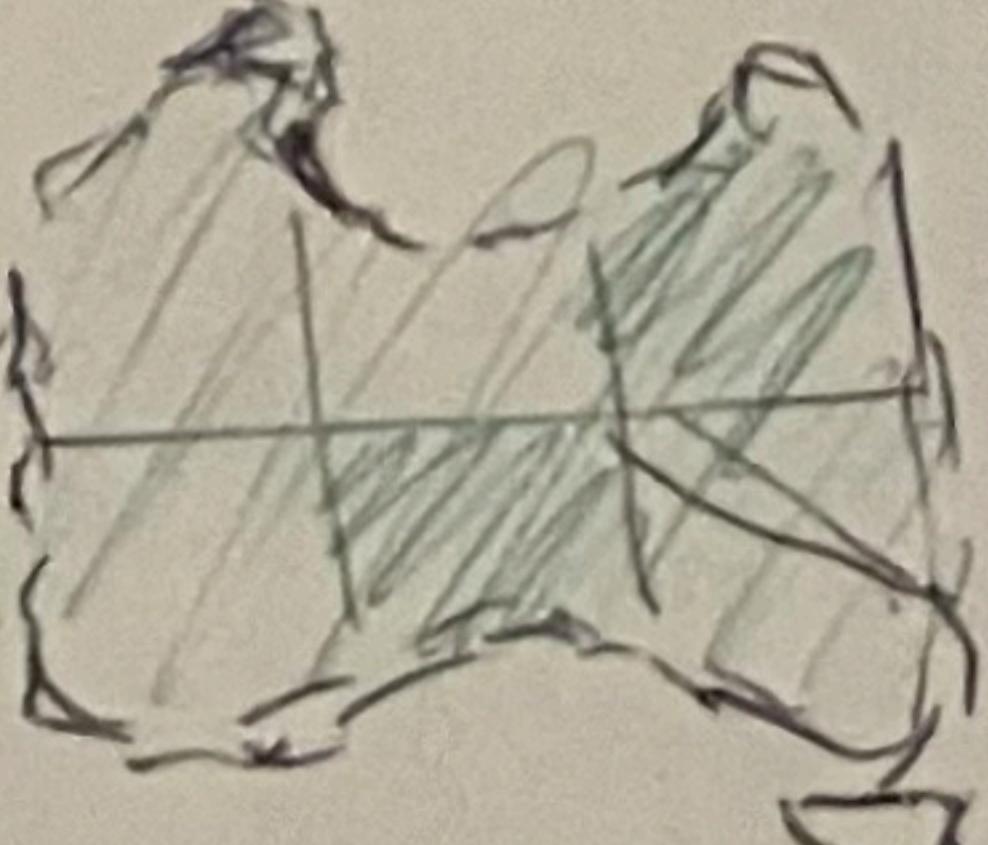


→ click buttons filter.

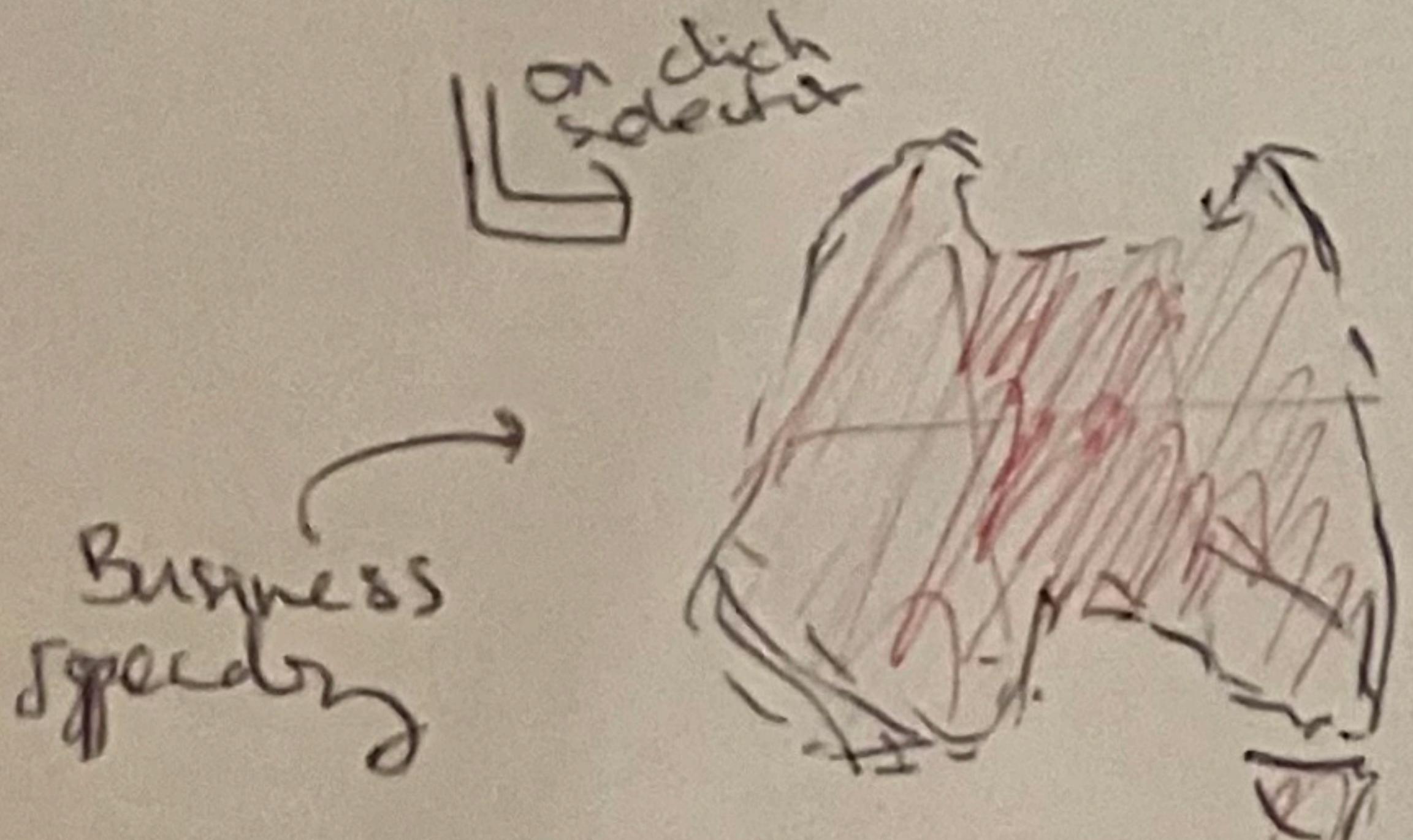
Focus → govern. spending
or r&d



→
on click
selector



↑
uni
spending
on r&d



Business
spending

Detail

- visualisation will try to minimise the amount of figures for clarity, but increase interactivity to maximise information conveyed.
- make sure to visualise
 - ① comparing states
 - ② comparing fields of R&D
 - ③ comparing actors
- magazine style.