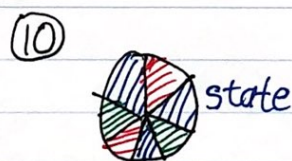
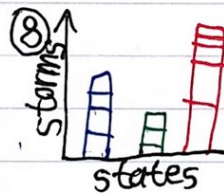
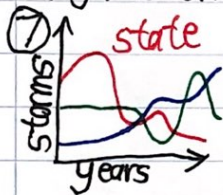
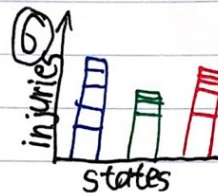
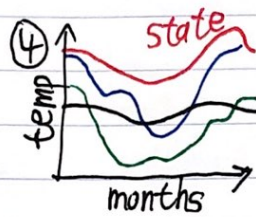
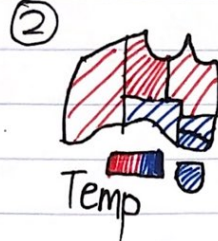


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(1)

Ideas



Categorise

Categorical: { storm type^{x4} · weather type^{x3} · state · city^{x1} }

Ordered: · date/time · month

Quantitative: · lat & long coords · deaths · injuries · storm size · weather value

Combine & Refine

①/③/⑤ show for certain storm type

⑤ & ⑧ combine to grouped bar could be great isotype

⑦ change to storm types over time. Could do heat map or bump

② show for certain weather type

① with carefully chosen storms per dot should be clearer than ③

① can show all major storms simultaneously

Comment

⑤ major storms by filtering out those without injuries. Will be lots of info in tooltip

If filtering / changing graphs is tricky will need more graphs & less data variety

Filter

① or ③ depending on how clustered points are, grid might be difficult

④ Not very interesting / helpful to contextualise storms

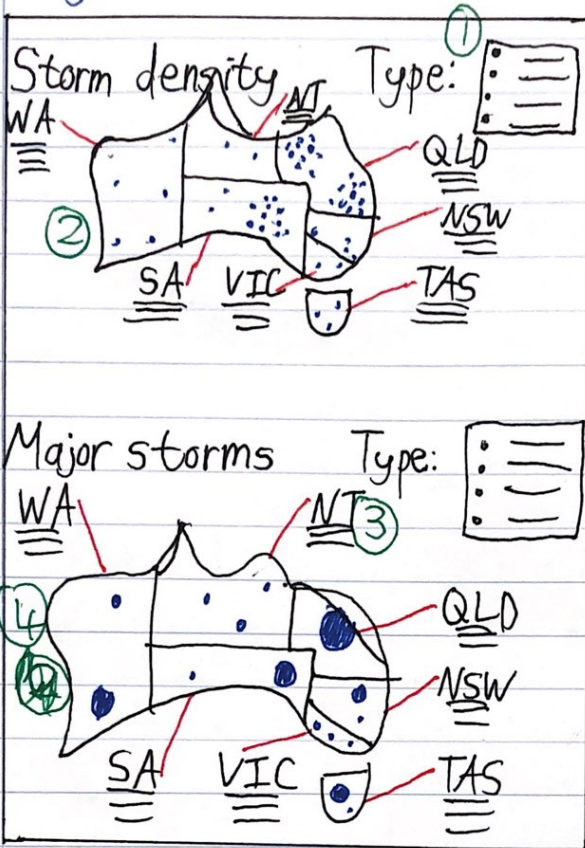
⑨ Not information dense, overlaps with parts in ⑥ & ⑧

⑩ Worse version of ⑥ / ⑧

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② ④

Layout Annotated



Summary

Title: Annotated charts
Author: Tyrone Rossouw
Task: Project 2 designs
Date: 20/04 Sheet: 2

Operation

- ① Maps are independently filtered by storm type
- ② & ④ Mousing over marks will reveal more info in tooltip

User scrolls between charts if small display

Focus

② & ④ are main charts, can have others but this is concise

③ Annotation for each state records number of storms / injuries. Can have more context

Discussion

⊕ Fairly simple, clear focus & easy to read without zoom

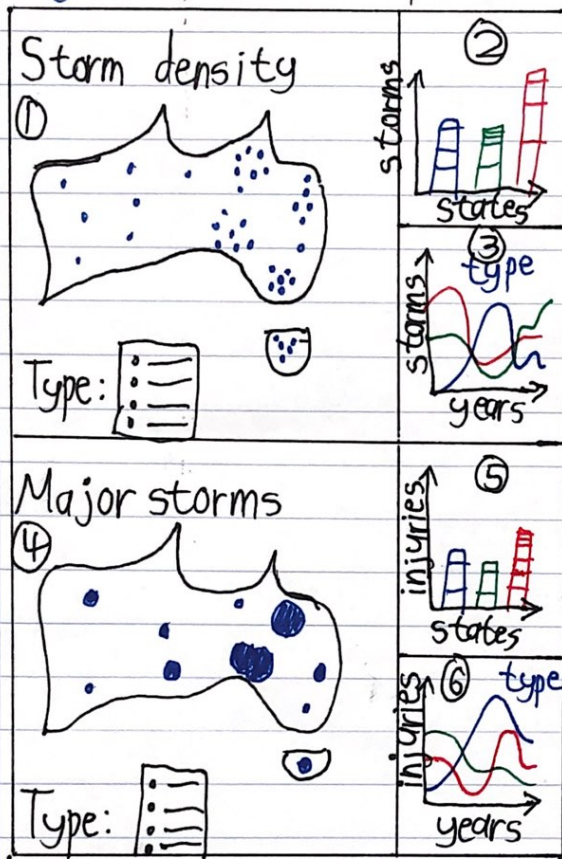
⊖ Only 2 charts, need many more since assessed on data vis. No use of secondary weather data in charts

∴ Too simple, rather use info in annotations to create more charts

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③

Layout Comic strip



Summary

Title: Comic strip
Author: Tyrone Rossouw
Task: Project 2 designs
Date: 26/04 Sheet: 3

Operation

① & ④ are filtered by storm type & have detailed tooltips

②, ③, ⑤, ⑥ have simple tooltips to read plotted info

③ & ⑥ could be brushed to select a time period, ideally updates all others chart & map in that half

Focus

① & ④ are primary maps, large & detailed

②, ③, ⑤, ⑥ support the maps with breakdown per state, year, & storm type

Discussion

⊕ Explores both levels of storms with graphics & detail. Charts are clearly grouped.

⊖ No use of secondary weather data. Charts are simple & repeated.

∴ Expand by adding weather map, could compare to major storm density for 2 more maps.

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④

Layout

①

TITLE

intro —

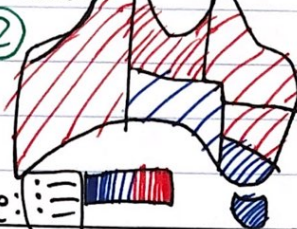
—

source —

Comic strip

Weather

②



Type: []

Summary

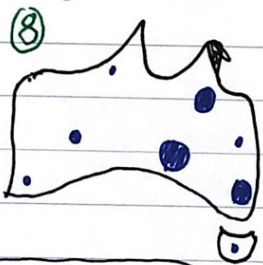
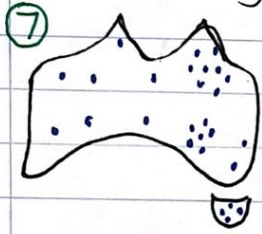
Title: Comic strip 2
Author: Tyrone Rossouw
Task: Project 2 designs
Date: 06/10 Sheet: 4



Operation

⑦ & ⑧ shared filter for storm type

Storm density . Major storms



Type: []

All have simple tooltips

② select weather type

④ or ⑥ could brush time period, paired would be ideal

Focus

⑤ grouped bar compares number of storms & injuries

⑦ & ⑧ most interesting part, placed at end to try balance layout

Discussion

④ Regular & major storms are directly compared. Uses secondary data & has intro

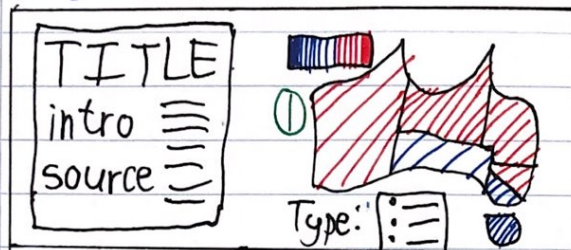
⑤ Main maps are fairly small, grouped bar could be difficult to read.

∴ Combine with sheet 3

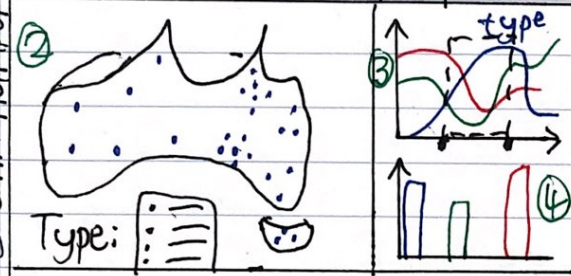
FIT3179 - Design sheets

⑤

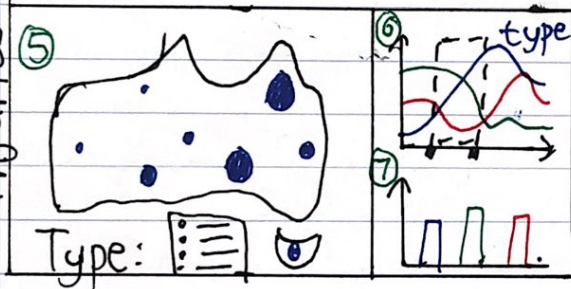
Layout



Storm number



Injuries



Focus

② & ⑤ are main maps, will reduce ① to give whitespace. Each has section of related info in small charts

① & textbox just give introduction to the topic

Summary

Title: Final design
Author: Tyrone Rossouw
Task: Project 2 designs
Date: 07/10 Sheet: 5

Operation

①, ②, ⑤ select type with dropdown / list

③ & ⑥ brush to select time period, easily updates bar maybe map too

All have simple tooltips on hover

② & ⑤ could have time sliders if needed. Linking maps to brush may be tricky

Detail

Lots of maps so might need to extend view to more landscape. Will definitely need to scroll vertically through sections.