Sheet 1

IDEAS

Overall Idea: Combine the reported physical health of Australians and link it to physical activity such as sport.

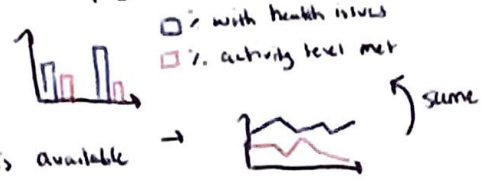
Display link between physical health and activity levels

↳ bar chart

↳ line

↓

if time data is available



↳ This information can be statewise

↳ could also be by age group

↳ also have data for self-perceived health → can be done on same idioms

choropleth map to show % of health problems by state

SWITCH ← button to switch to view about perceived health (green)

↳ could also show cost of sport $, $$, $$$

→ breakdown of types of health issues

↳ or behaviour types

→ population pyramid

↳ to show different age and sex

↳ or show perceived healthiness vs actual

→ scatterplot

↳ shows % participation in sport Δ % healthy

It would be interesting to have a bar chart showing activity level / age, and a line showing health problems / age

FILTER

- Heavy emphasis on bar charts & histograms
  ↳ lots of data available, need more unique idioms
  ↳ idioms that reveal something new → suggest correlation
- Population pyramid showing perceived health vs actual health is very insightful
  ↳ can start with this → show people need to be more aware?
- Line chart of activity met and health level early on
  ↳ shows the underlying problem
- Following with statewide map and expenses can show systematic causes

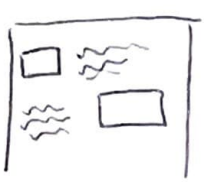
CATEGORISE

EFFECT	CAUSE
-Here we show the results	-Here we speculate why
 frequency of disease	 comparing activity level and disease
 perceived health vs actual	 participation in sport vs health
 Breakdown of health issues	 activity level per age and health problems
Map shows partial effect via choropleth layer	sports participation and cost
-want to present effect based idioms first	

COMBINE & REFINE

- Want to show what the current health status is & frequency of issues → "effect"
- Give textual context to support each idiom
- Tooltips on all idioms to provide exact values
  ↳ Filter by state and age?
- Partitioned poster may be most appropriate
  ↳ easy to achieve with CSS
- Move idioms from left to right as scrolling

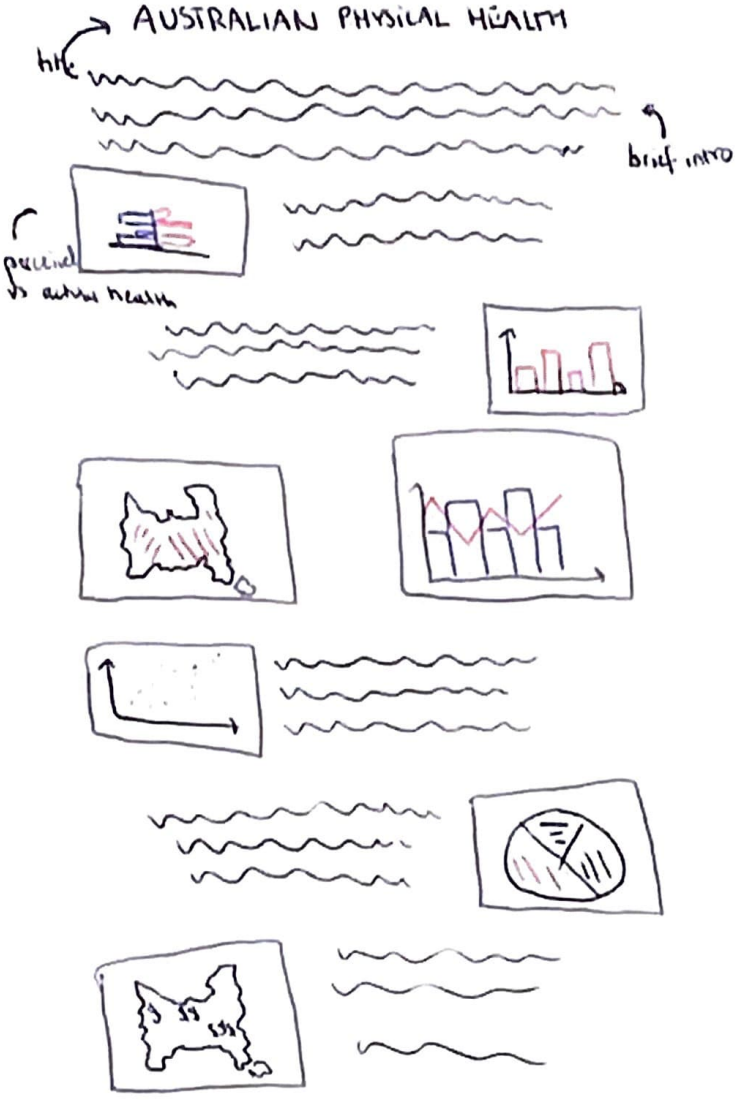
↓



QUESTION

- I believe the question is answered well
  ↳ analyses the correlation between physical activity in Australia and disease
  ↳ aims to analyse trends over years of data
- Information is first provided to give context
  ↳ following idioms are then provided to give potential explanations
- Applicable to all Australians
  ↳ especially self-perceived statistic

Sheet 2 LAYOUT



TITLE: AUSTRALIAN PHYSICAL HEALTH

AUTHOR: Andrew Rudnytsky

DATE: 05/10/24

SHEET: A2S2

OPERATIONS

- The first 2-4 idioms show the problem at hand
  - ↳ perceived health vs actual
  - ↳ prevelance of health issues
  - ↳ Choropleth map of issues by state %.
  - ↳ health vs activity level by age
- The next 3 provide insight and speculate why these issues may arise
  - ↳ % participation in sport vs % healthy
  - ↳ Breakdown of activity types
  - ↳ cost of sports / activities

FOCUS

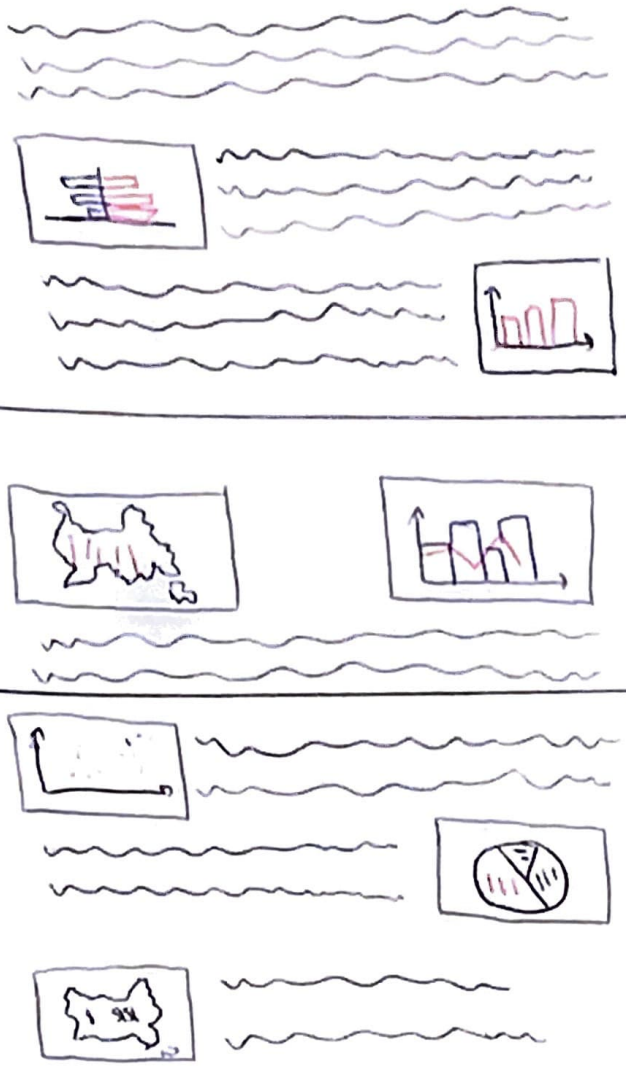
- Each visualisation is accompanied by text to provide insight as to what is happening
- The prevalence of health issues (2nd idiom) can be a few different datasets
  - ↳ no. health issues by age
  - ↳ % of people with a certain health issue
    - ↳ Filter by age? Select from dropdown?
- Scatterplot has colour coded information to identify who is healthy

DISCUSSION

- Visualisation gives a holistic overview and analysis of the problem at hand
- Might need to work in room for some text between / under idioms 3 & 4
- Ensure symmetry and proper whitespace left between idioms
  - ↳ blur effect as scrolling?
- Filters for histogram and pie chart?
  - ↳ lets user focus on what they are interested in

Sheet 3

AUSTRALIAN PHYSICAL HEALTH



TITLE : Australian Physical Health

AUTHOR : Andrew Rodnytsky

DATE : 05/10/24

SHEET : A2S3

OPERATIONS

- Top third presents the underlying issue
- Middle third does this whilst also potentially providing insight as to why or has occurred
- Bottom third is purely for finding correlation & trends

- Filters of age range on histogram (idiom 2) and pie chart should be added

- Actual cost annotations on final map via tooltip

FOCUS

- Each idiom needs a detailed tooltip
  - ↳ preferably on hover
    - ↳ fix display when clicked?

- Typography needs to be carefully selected
  - ↳ lots of text → plays an important role
  - ↳ calm, neutral sans-serif would be ideal

- visualisation has been broken down into thirds to group ideas...
  - ↳ subheadings?

DISCUSSION

- Layout broken into thirds offers slightly better readability and storytelling

- Subheadings would really enhance the storytelling

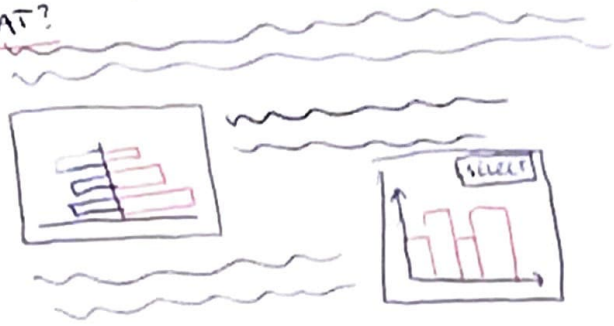
- Filters would add interactivity and also help viewers analyse areas of interest

- Make visualisations (idioms) larger and reduce amount of text?
  - ↳ lets idioms be the main focus

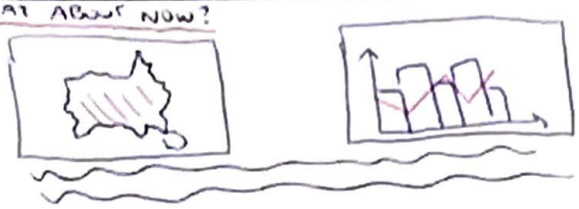
Sheet 4 LAYOUT

AUSTRALIAN PHYSICAL HEALTH

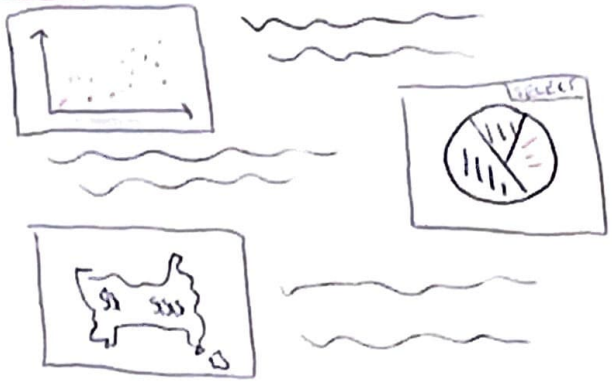
WHAT?



WHAT ABOUT NOW?



WHY?



TITLE: Australian Physical Health

AUTHOR: Andrew Rudyatkin

Date: 05/10/24

SHEET: A2S4

OPERATIONS

- Filters will increase interest and readability
  - ↳ viewers of different demographics will find information relevant to them
- Subheadings make the reason for grouping clear → it may have been intuitive before, but now it's intuitive + accessible (navigation)
- Could potentially filter the whole visualisation by sex at the top
  - ↳ might be overlooked
    - ↳ too many variables?

FOCUS

- Small filters within the histogram and pie chart
  - ↳ embedded within because this is the only time information will be filtered
- Overlap between idioms finishing and starting
  - ↳ leads to nicer layout
- Subheadings → improve storytelling
  - ↳ generic but purposeful questions, may be changed later if desired

DISCUSSION

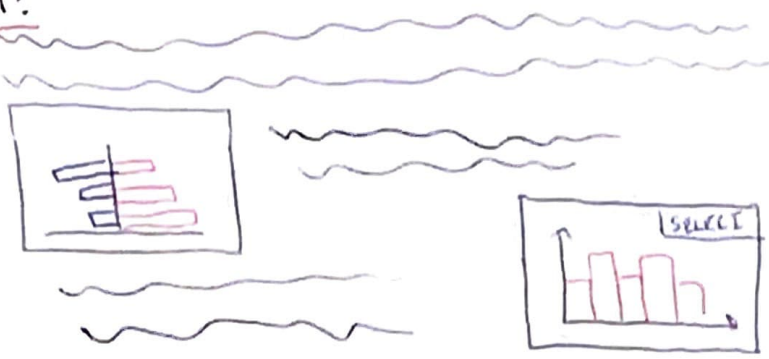
- Visualisation looks far more appealing
  - ↳ reduction of text via overlap of idioms
    - ↳ feels far less intimidating/overwhelming
- Subheadings are great for flow
  - ↳ keeps viewer aware of what they are seeing
    - ↳ charts will need even smaller subheadings
- I believe this is the optimal design and there is very little that can be improved

Sheet 5

LAYOUT

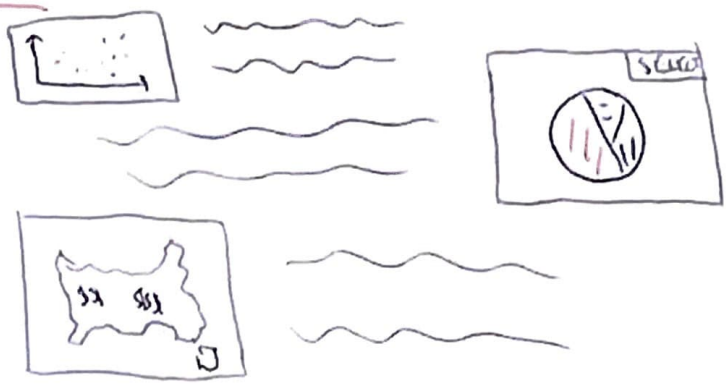
AUSTRALIAN PHYSICAL HEALTH

WHAT?



WHAT NOW?

WHY?



TITLE : Physical Health in Australia

AUTHOR : Andrew Rudnytsky

DATE : 05/10/24

SHEET : A2 S5

OPERATIONS

- All charts will have tooltips
- Histogram & Pie chart have filters to narrow information down for age ranges
- Viewer is guided through the 3 sections, text to compliment their understanding of the charts
- Tooltips to have BOLD right format
- If possible, sections not currently focused on should be blurred
  ↳ highlights the current focus
- Text should be helpful, but minimal

FOCUS

- Layout broken down into 3 separate views on the one page
  ↳ WHAT, WHAT NOW, WHY
- The viewer is provided a brief overview of the issue at hand immediately after the title
  ↳ following text is to give context / explain charts
  ↳ viewer has all information available through tooltips, but this helps understanding

→ Concluding remark could be drawn
↳ given there is space and compliments the layout

Filtered by age ranges

DETAILS

CHART OVERLAP → The end of one chart should have a bit of vertical overlap with the next
↳ ensures that not too much text is used

DATA → Data has been sourced and is available for all charts, however some use 2013 data (disclaim)

COLOUR → Combinations should be experimented with, but given the nature of the vis, a white background likely suits

SPACING → Crucial to successfully execute this visualisation, all charts should be the same size to accommodate for this.