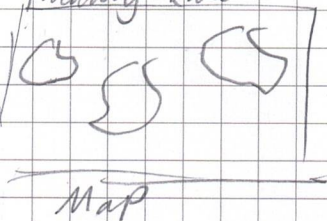# IDEAS
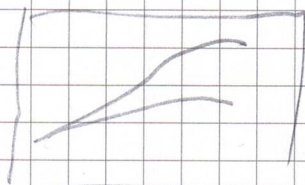
Theme: TB awareness and current impact

Fatality Rate
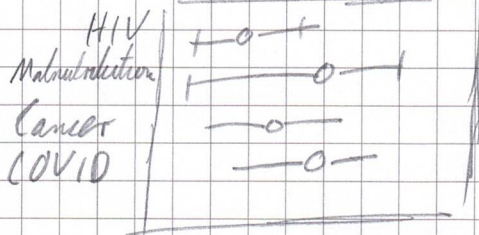

Map

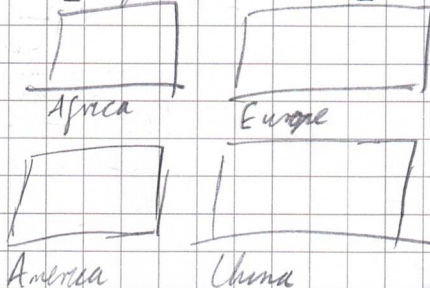Incidence Graph

Over time TB has been the most fatal curable disease

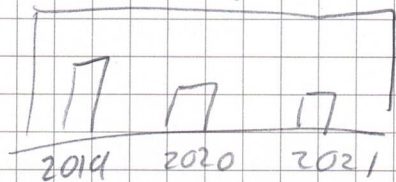
Risk Factors:

HIV
Malnutrition
Cancer
COVID

TB is dangerous as it is compounded by other diseases, and contagious.
↳ Immunodeficiencies

[Regional Trends]

Africa   Europe

America   China

People living with TB

2014   2020   2021

TB deaths

Milestone

SDG ?
↳ SDG 3

End the epidemic of AIDS, TB, and other communicable diseases

---

Filter
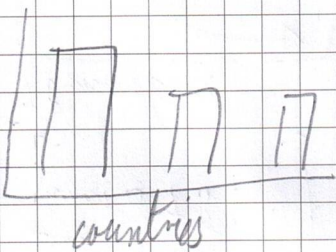↳ I don't think global trend is less useful than regional

↳ Our dataset is global, make a global trend time series

---

⑤ People living w/ TB

countries

Categorise

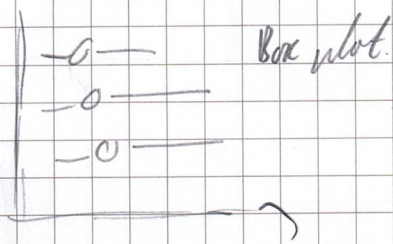① TB incidence
↳ Global trend,
would expand
↳ to regional

② TB deaths
↳ same comment

③ TB fatality

④ Risk factors:

Box plot

Questions

① Will need to identify based on the data which is more feasible: Regional or global?
↳ Or top 10 countries

② Same above

③ Add a slider to map?

Refine

③ Add slider to map?

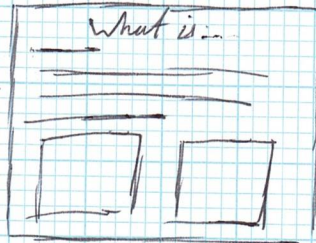④ Add a year slider.
↳ Consider:
↳ Tooltips
↳ Text/line annotation
↳ Filtering
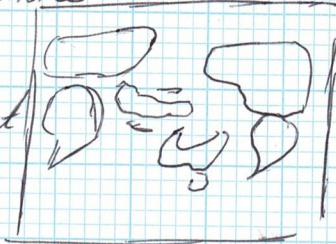↳ Selection via legend
↳ Filtering on selection/menu
↳ Slider filter

LAYOUT

① Explain what:
- ↪ UN, SDG is
- ↪ what TB is
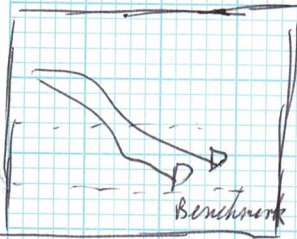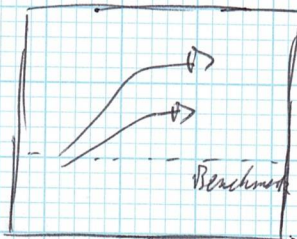

② Occurrence Occurrence
- ↪ What Where is it prevalent?
- ↪ Flick thru different variables?

③ Time series

TB Deaths   TB Incidence

OPERATIONS

- ↪ Just Intro text
  - ↪ SDG   ↪ UN
  - ↪ TB   ↪ Benchmark

- ↪ Consider making a carousel to flick thru different chloropleth maps
- ↪ tooltip, slider etc

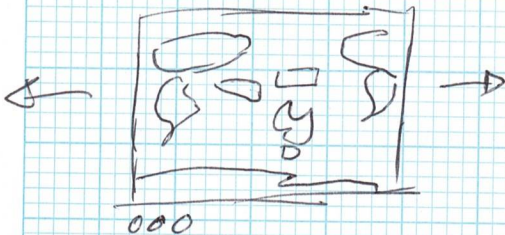- ↪ time series
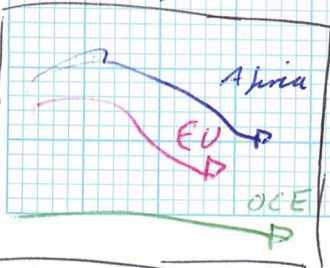 - ↪ Consider facet by region to better split packs

FOCUS

① What is TB?
- ↪ A respiratory, contagious disease
- ↪ Primarily affects, IMMUNO-COMPROMISED.
  - ↪ Which is why it is dangerous.

② Occurrence
- ↪ Fatality map. funding, deaths, etc

000

③ Time series

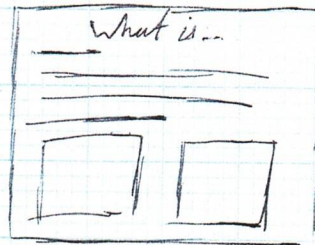Consider an interactive filter to remove lines, or so split by selection

DISCUSSION

- ↪ Choropleth map needs a good colour legend
- ↪ Time series needs to highlight + annotate benchmark goals. SDG aims to eradicate the disease by 2050.
- ↪ Not pictured as I ran out of space: wish chat. Use box plot.
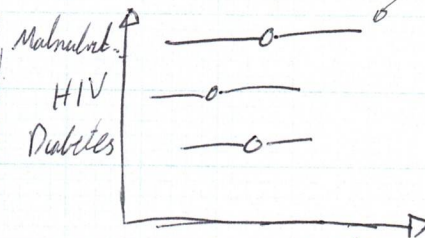
Sheet 3
Name: Amelia Ng
Date: 11/10/2023
Task: #3

LAYOUT

① Explain what:
  ↳ UN, SDG is
  ↳ what TB is

② ~~Occurence~~ Occurrence
  ↳ ~~What~~ Where is it prevalent?
  ↳ Flick thru different variables?

□ scale, legend

③ Time series

TB Deaths   TB Incidence

△ Regions, could show countries

FOCUS

① What is TB?
  ↳ A respiratory, contagious disease
  ↳ Primarily affects IMMUNO-COMPROMISED.
    ↳ Which is why it is dangerous.

④ Risk chart
  ↳ Colour each of the categories
    ↳ Needs tooltip and distribution
      ↳ Not sure how to do that in Vega Lite

⑤ Map slider / carousel:
  ↳ Might struggle to add in JS

② Risk chart
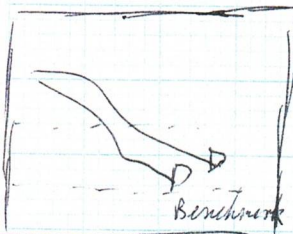

Malnutrit.
HIV
Diabetes

↳ Uses Median, Quan...

OPERATIONS

Time series uses an adjusted dataset to get continent data.
  ↳ Use Our world in Data on...

May need to change / retrieve population stats

Narratively:
  ↳ Introduce SDG, UN's goals and why TB is a problem
  ↳ Show world distributions on ma...
  ↳ Show time trends via lines. Can show regional changes.
  ↳ Show risks
  ↳ Supplement with text annotations

DISCUSSION
  ↳ Data is ~~REALLY~~ REALLY hard to read....
  ↳ May have to simplify graph...
  ↳ Consider correlation graphs if data permits.

LAYOUT

① Explain what:
↳ UN, SDG is
↳ what TB is

What is...
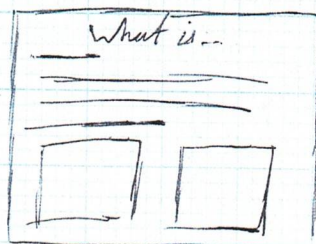
④ Risk chart
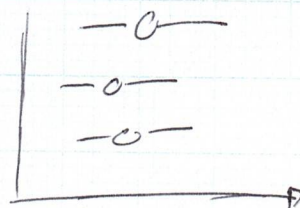
Can Vega tile
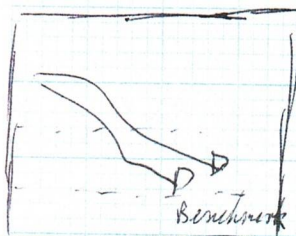cabulate quantities?
Might have to check

② ~~Occurrence~~ Occurrence
↳ ~~What~~ Where is
it prevalent?
↳ Flick thru different
variables?
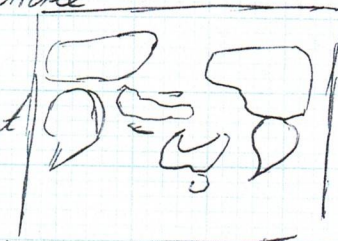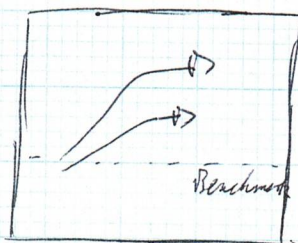

← 3× maps. separated by slider or
carousel toggle

③ Time series

Benchmark

Benchmark

TB Deaths   TB Incidence

← Click on lines to highlight. toggle
opacity of other areas.
↳ Click on button to show regional
facets? Only if we can satisfy
MVP ~~first~~ first.

FOCUS

What is TB?
↳ A respiratory, contagious disease
↳ Primarily affects IMMUNO-COMPROMISED.] – 2nd most deadly disease, after
↳ Which is why it is dangerous.   COVID-19 in 2019-2021.

② Maps
↳ Fatality Rate - chloropleth
↳ New cases - Proportional symbol
↳ Deaths - Proportional symbol

DISCUSSION
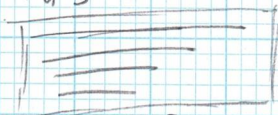
↳ Reduce # of maps if too
hard

③ Time series
↳ How to put a static flat line?
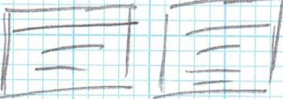
↳ Use bar chart instead of
box plot for ~~#~~ # 4 Risk

↳ We need text boxes for each
section, plot out how that
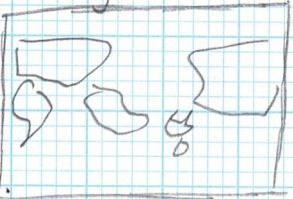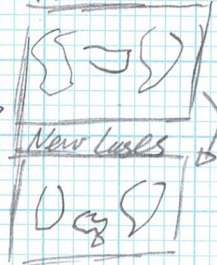would look.

2mm Squares

LAYOUT
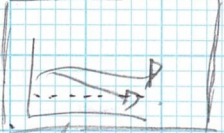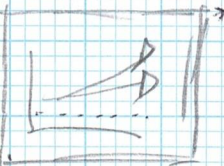
① What is......
SDG 3

what is TB

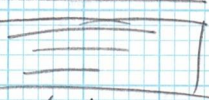② Fatality

Deaths

New cases

Tuberculosis.... Info, History

Deaths

Incidence

Risks, symptoms

Conclusion

show intended
milestones for SDG
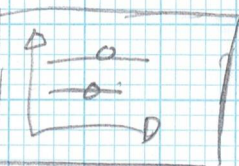
Common correlations to TB
↳ Explain why:
immunocompromised
ppl are far more
likely to get it.

OPERATIONS

Starting text on topic cover:
↳ SDG meaning
↳ UN
↳ TB
↳ Goals for SDG 3, milestones

Slideshow of maps.
↳ Tooltips, interactive
↳ On deaths/new cases symbol maps,
make a size filter

Historical info of TB, why is it an
issue?

DISCUSSION
↳ Milestones may differ from dataset
to dataset
↳ Consider a to dropdown box
or interactive element

↳ Can HTML/CSS make a
carousel? Or can I make a
button

↳ If the data doesn't allow
for box plot, do a bar
chart instead

↳ Consider a button for
swapping to facets and
back.