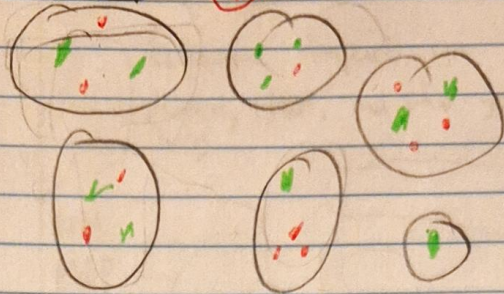# 5DS Sheet 1

1: Ideas

World Map ①

· choropleth map based on human development index →comparing gender equality
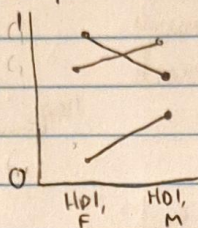
② **Line Chart**   ③ **Slope Chart**
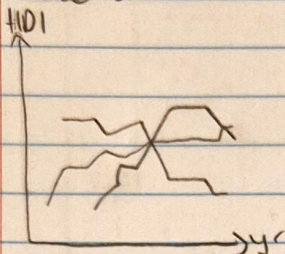
· graph HDI over time for each country

can use several variables →

Scatter Plot ④   ⑤ **Bar Chart**
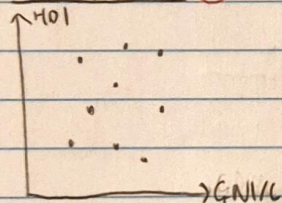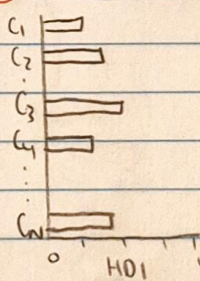

· comparing wealth to HDI

4: Combine + Refine
· difficult to combine graphs, as variables such as wealth, education, etc. can't be graphed together
· can show similar idioms together displaying different variables

2: Filter
· remove 5
   → too large
   → redundant info

3: Categorise
Category 1
· basic HDI Data
   → comparing between countries
   (1,2,5)
Category 2
· trends between variables
   (4)
Category 3
· comparing inequalities/ disparities
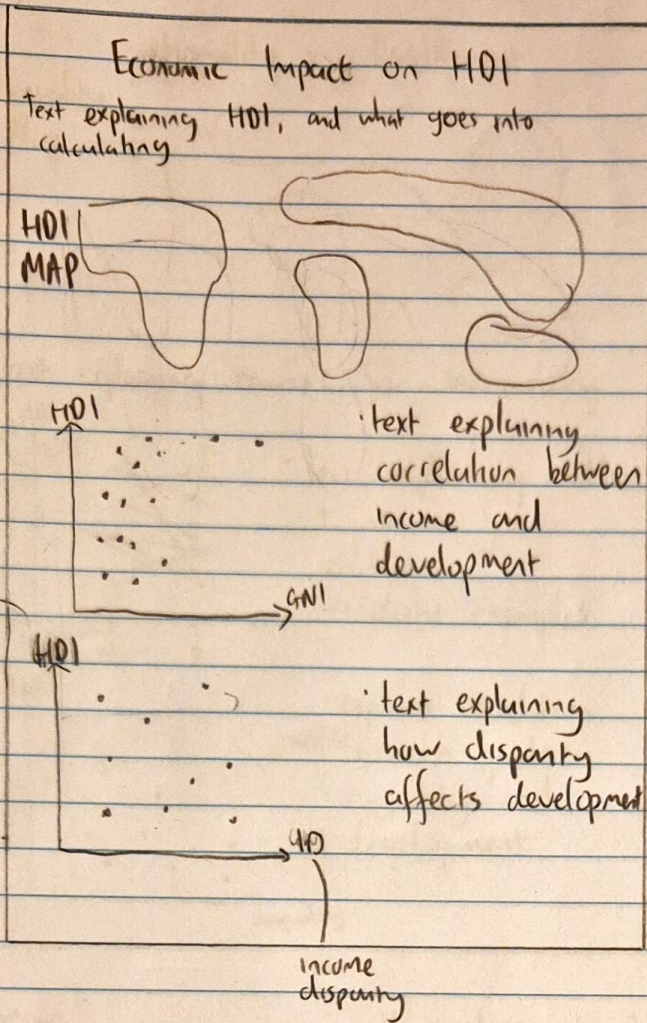   → between genders/ wealth
   (3)

5: Questions
· how can I fit data for every country on the visualisation
   → filters (by HDI, continent, etc.)
· how can I tell a story with this domain/data?
   → show how certain factors affect HDI/each other (gender equality, wealth, education, etc.)
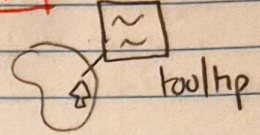
5DS Sheet 2

Layout: Article

Title: Economic Focus
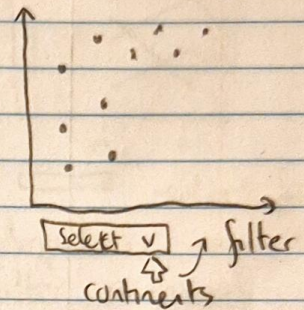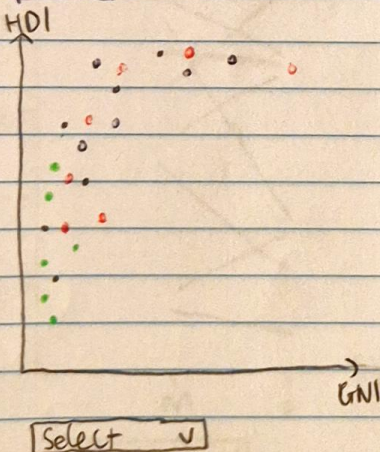Author: Vignesh Guruparan
Date: 04/10/2024
Sheet: 2

Economic Impact on HDI

text explaining HDI, and what goes into calculating

HDI MAP

- text explaining correlation between income and development (HDI vs GNI scatter)

- text explaining how disparity affects development (HDI vs income disparity scatter)

income disparity

Operations

Hover-Map

tooltip

- vital info about country

Selection - 2nd Graph

select ⌄ → filter continents

Focus

HDI GNI

Select ⌄

Legend
- •∼   · as the focus
- :∼   of this layout
- •∼   is economic
  impact on human
  development, this
  graph is most
  relevant
- · can select continent
  for less clutter

Discussion

Pros
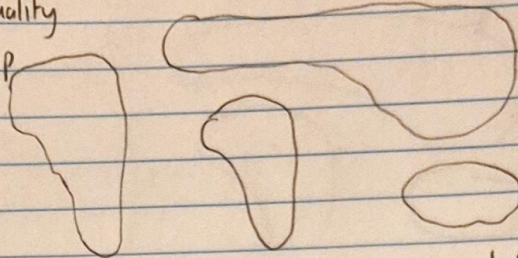- intuitive layout
- easy to explain information

Cons.
- surface level information
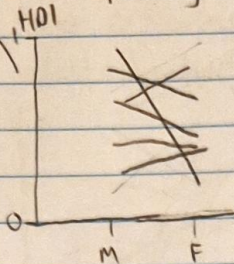- little # of idioms

5DS Sheet 3
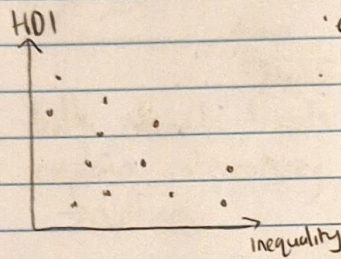Layout: Article

Inequality vs Development
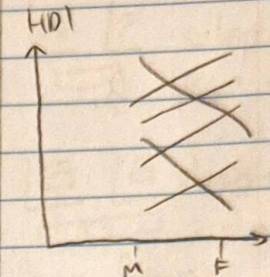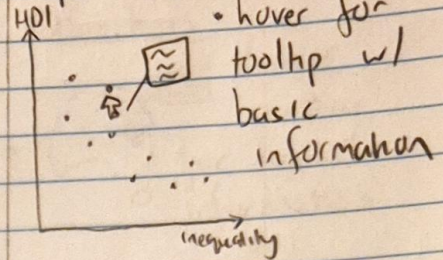
Inequality Map

· text explaining causes for inequality

slope chart

· text explaining outliers + cause for outliers
→ specific examples

· explain correlation between gender equality and development

Operations

HDI

· hover for tooltip w/ basic information

inequality

HDI

· select from drop-down menu to filter continents

Discussion

Pros
· interesting subject matter
· variety of charts

Focus

HDI

| 1 |
| 0.8 |
| 0.6 |
| 0.4 |
| 0.2 |

M   F
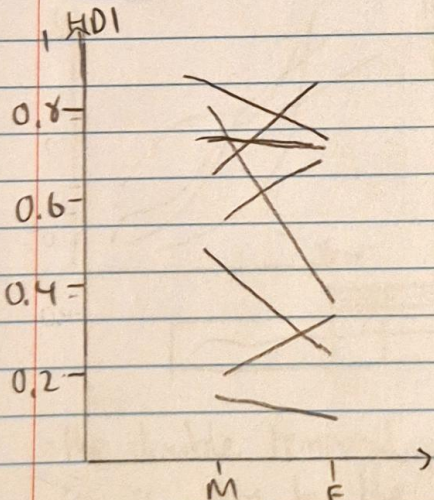
Select ☑
↓
select continent

· this slope chart provides the most insightful information
· filter by continent to see trends
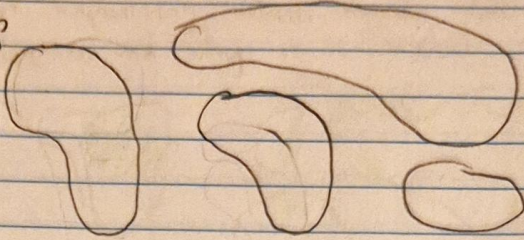· allows me to describe how specific countries can do things to affect gender disparity

Cons
· difficult chart to make (slope chart)
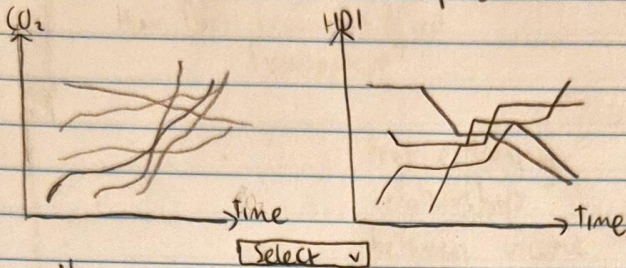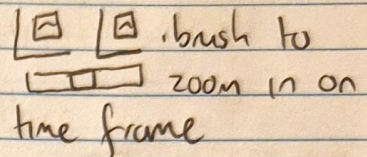· hard to display relation on choropleth map

5DS Sheet 4

Layout: Article

Title: Environmental
Focus

Name: Vignesh Guruparan
Date: 07/10/2024
Sheet: 4

How Does Industrialisation Affect Development

Emissions
Map

· text explaining correlation between
industrialisation and development

CO_2 / HDI vs time graphs

Select ⌄

· talk about trends in emissions,
explain interesting correlations
→ outliers

Focus

CO_2 / HDI vs Year graphs

Select ⌄
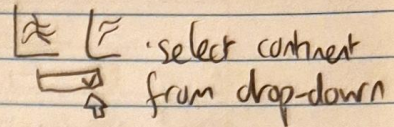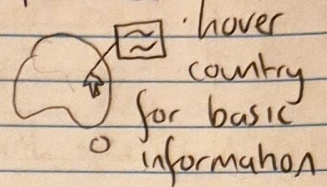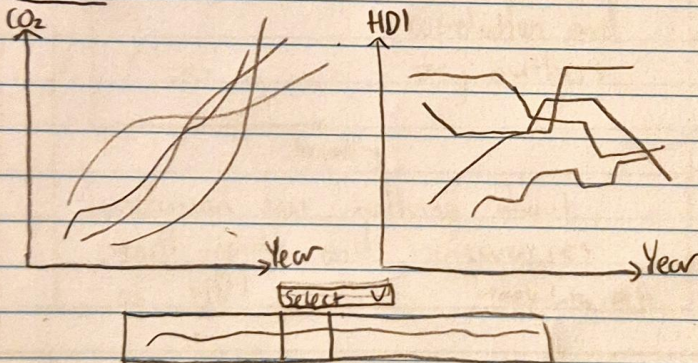
· the double temporal graph can be used
as a way for the reader to explore
the content

Operations

· hover
country
for basic
information

· select continent
from drop-down

· brush to
zoom in on
time frame

Discussion

Pros
· most interactive
· highest depth of
information

Cons
· difficult to acquire
information
· most difficult graph
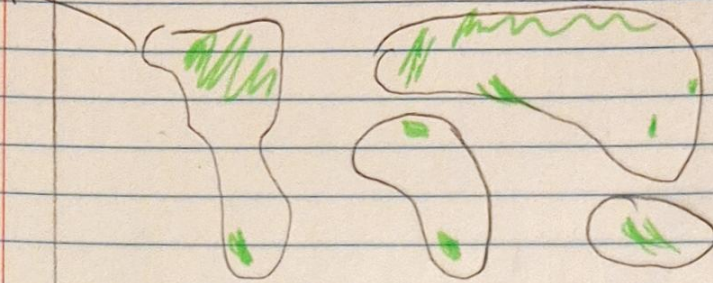to create
· questionable correlation
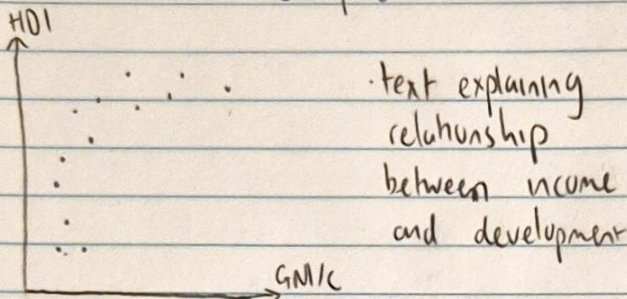
5DS Sheet 5

Layout: Article

What Affects Human Development?

text explaining what human development index is, and why it is useful

HDI choropleth map

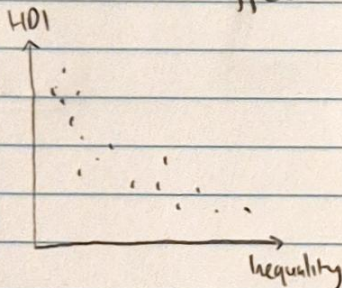### How Does Economics Affect Development?

HDI ↑ ... (scatter) → GNIC

- text explaining relationship between income and development

How Does Inequality Affect Development?

HDI ↑ ... (scatter) → Inequality

- text explaining correlation and any outliers

·conclusion text, talking about overall trends and inaccuracies of HDI   →metadata etc.

Click Drag

o———▢   ·to see
0   100,000   countries
with specific incomes

Select

[———— ☑] ·to view countries from specific continent

Hover

[≈] ·to see basic
[☺]   information
      about
      country

Detail

·implemented with vega-lite, html (css)
·will take 3-4 days to create
·fit width of most laptops/computers

Focus

·the focal point of this visualisation will be the choropleth map, which will be the basis to build the visualisation upon