

Ideas

Sheet 1

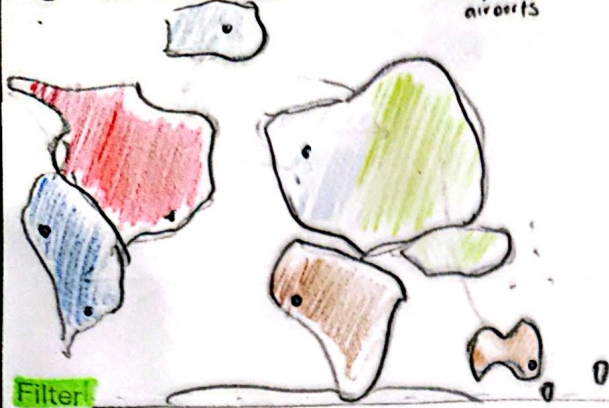
Name CHRIS MAIOR

Date 20/09/25

Fir 3179 Data Vis 2

1 World map

major airports

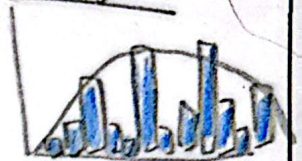


2 Bubble Chart



no. of offences

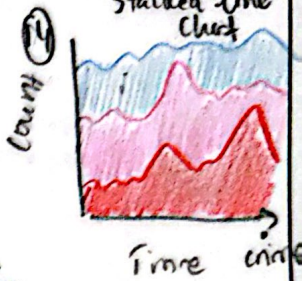
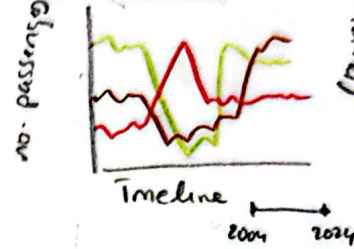
4 Histogram



13 Treemap



3 Line Chart



6 Calendar heatmap

- Data prep too complex
- Attributes already captured by other idioms

7 Scatterplot

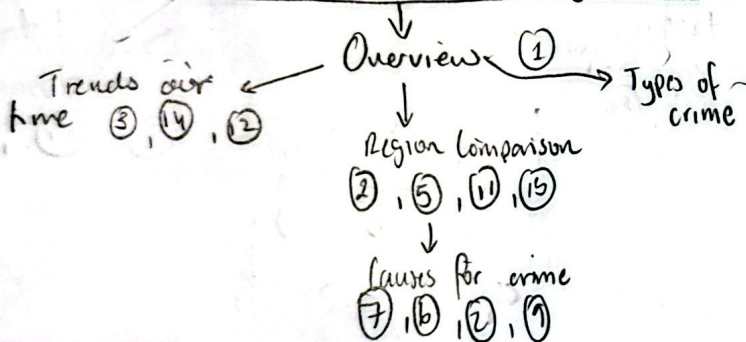
- Overlaps with other idioms
- doesn't add to story telling

10 Dendrogram

- hard to explore relationships

Categorise

World of Crime: Patterns beyond Borders.



Combine & Refine

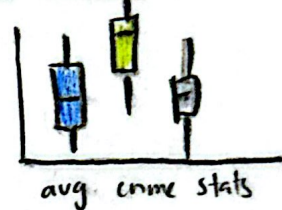
- Combine line chart & stacked line chart into streamgraph for added visual aesthetics without losing content
- Just stick to choropleth map & not include heat map
- Balance visualisations i.e., 2 maps, 2-3 line ones, 2 comparisons & 1 relationship.
- Combine the stacked bar chart with side-by-side
- Combine Donut chart with pie chart

Summarise and question

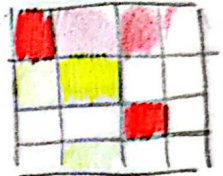
Will I have enough data to encode everything?

Are there visualisations that I'm missing? Will it be confusing?

5 Boxplot



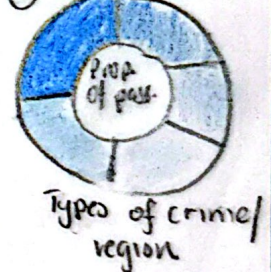
6 Heatmap



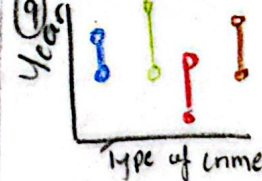
7 Scatterplot



8 Donut chart



9 Dot Plot



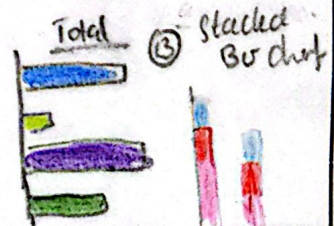
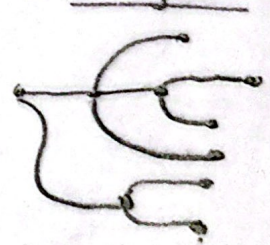
11 Pie Chart



12 Bar chart



10 Dendrogram



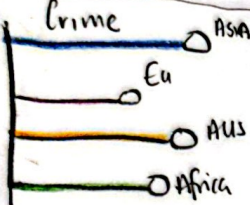
Big Picture / Layout

① Mapping the stories

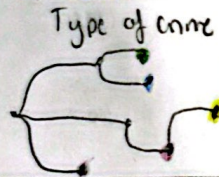
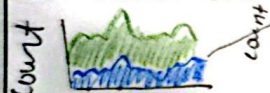
WORLD MAP *
Choropleth

Overview

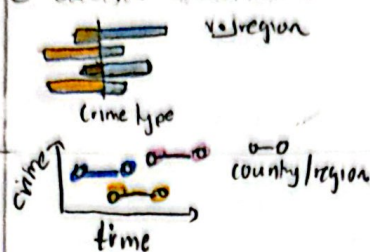
CHOROPLETH MAP



② Trends over time



③ Comparisons



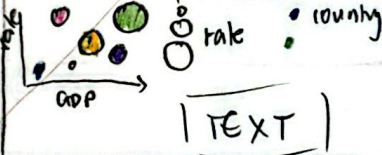
TEXT

④ Crime by Type



TEXT

⑤ Causes / Drivers



TEXT

Sheet 2,3,4

Name Chris Major

Date 20/09/25

Title Data Visualisation II

Description

Cartoon layout /
Comic Strip.

Components / Operations



2000 2015

time filter
function

All line series charts will
have a line slider.

Map will have a zoom
function that allows you
to see a breakdown of
that country's crime stats

Part / Focus

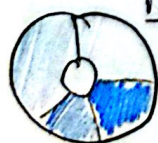
World Map



main focus.

Narrative

- Shows an overview of how crime looks like around the world & how it varies across different regions.



Donut Chart

- To display the proportion of the different types of crime per region.

Pro & Cons

Pros

- ⇒ Lots of visualisations
- ⇒ Good use of space
- ⇒ Good sequencing
- ⇒ Allows for a lot of story telling

Cons

- ⇒ Too much going on.
- ⇒ Not good use of sight lines
- ⇒ Visualisations not evenly spread

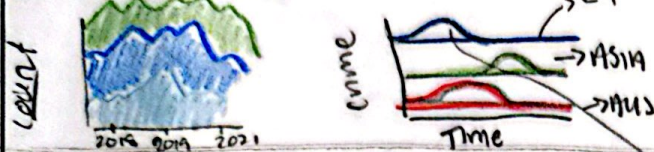
Big Picture / Layout

① Overview

WORLD OF CRIME: PATTERNS BEYOND BORDERS

WORLD MAP

② TIME TRENDS



③ Region / Country Comparisons

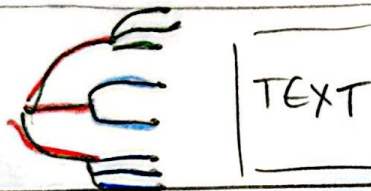
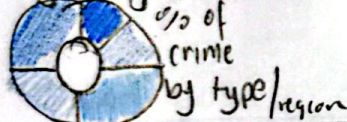


④ Causes / Drivers of Crime



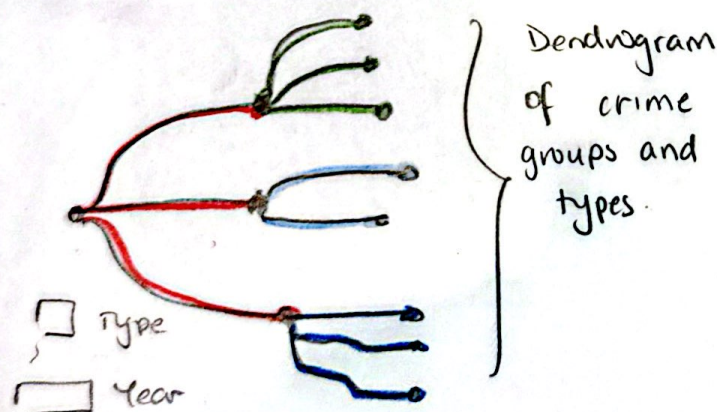
TEXT

⑤ Types of Crime



TEXT

Part / Focus



Narrative

- Shows the relationships between crimes
- ⇒ selection tools allow for customisation
- ⇒ Drop down selection tool to filter time & crime type.

Sheet 234

Name Chris Major

Date 20/09/2025

Title FIR 3179 Data Visualisation II

Description

Poster + Infographic

Components / Operations

Map toolbar

→ To zoom into country & display crime & safety index values

→ Hover toolbar to display more information

Option to filter by category / factor that influences crime & by different type of crime.

Pro & Cons

Pros

- ⇒ Good typography
- ⇒ Appropriate visualisations
- ⇒ High interactivity

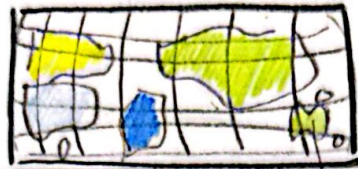
Cons

- ⇒ Story telling could be improved
 - Doesn't flow naturally
- ⇒ Maybe a bit congested
- ⇒ Could use more complex visualisations.

Big Picture / Layout

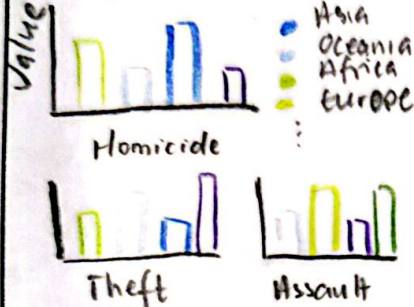
① WORLD OF CRIME. PATTERNS BEYOND BORDERS

TEXT

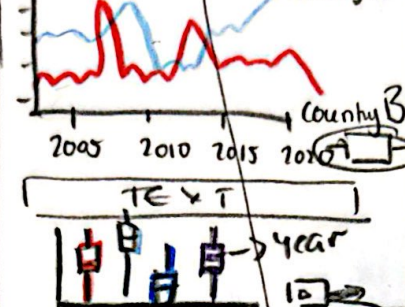


TEXT

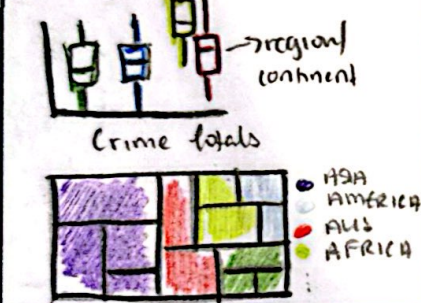
② Types of Crime



③ Time Trends



④ Region Comparison

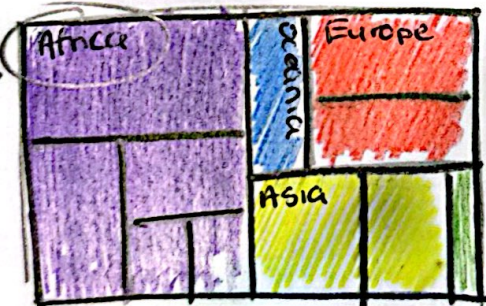


⑤ Crime drives / Causes



Part / Focus

TREEMAP



Narrative

⇒ To display an interactive feature of the breakdown of crime per continent.

⇒ Interactive element to click on region to see more in depth.

Sheet 2,3 4

Name Chris Major

Date 20/09/25

Title Data Visualisation II

Description

Designing a scrollable page
→ Magazine style

Components / Operations

→ Slider and toggle

features for time trends and selection feature to change countries / regions

→ toggle feature to change between regions for same time period.

→ Dynamic footers to display values.

Pro & Cons

Pros

- ⇒ Solid typography → well sectioned
- ⇒ Storytelling makes sense now
- ⇒ Good balance between text & visualisations

Cons

- ⇒ Can be hard to follow since it is sectioned down the middle

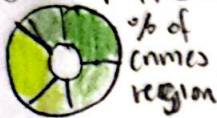
Big Picture / Layout

1 OVER VIEW



TEXT

2 TYPES



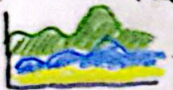
% of crimes / region

TEXT

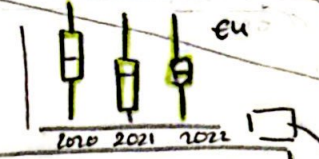
3 COMPARISON



4 TIME TRENDS



TEXT



TEXT

5 CAUSES/DRIVERS



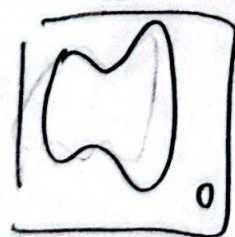
Factor

Part / Focus

WORLD MAP



Fixed scale



Click to Zoom in

→ Tool to display

- Country
- Crime Index
- Safety Index

Narrative

⇒ Show the overall Global crime rate

Sheet 5

Name Chris Maior

Date 29/09/25

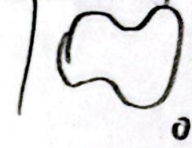
Title Data Visualisation II

Description

Design Final Sheet

Components / Operations

Zoom feature



→ for a more detailed view on crime statistics for specific country.

Filter feature

→ to filter by region

Filter Feature

→ To filter by cause and/or crime

→ Tool to change the region

Details

Dependencies

- ⇒ Kaggle + UNODC for data
- ⇒ Excel for data cleaning

Estimated Time

- ⇒ Data collection + cleaning ≈ 3 days
- ⇒ Report 3.5 days
- ⇒ Visualisations + webpage layout ≈ 10 days.