

Map - Avg ranking

Radar - Top countries score

per questions

Diverging bar - By country avg no

of competitors

Bubble - Rank vs % of female

and size = no of competitors

Focus
Half country, half gender

Tive general overview
of gender and nationality
statistics

Operations

- Use consistent colour scheme between gender - Filters to filtere

out top countries

Discussion

Pros

- Simple, easy to understand

- Shows variety of analysis

Cons

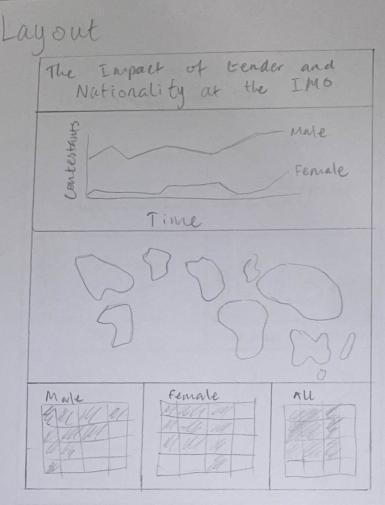
- Analysis could be

deeper

- Map data is not impactful doesn't

- Idiohis should have clear focus on either gender or nationality, ideally both

Title: The Impart of Gender and Nationality at the IMO Author: Brandon Truong Date: 02/10/25
Sheet: 2: Comparison between gender and nationality at the IMO



Line Chart - No of male/female over time Map - % of female competitors Heatmaps - Country vs problem

- Story telling flow

1. Set context for number of competitors

2. Set context for nationality

3. Compare performance of both

gender and nationality

Operations

- Annotate line
graph for significant
mornents in time
- Consistent colour
scheme between
gender

Discussion

Pros

- Flows naturally
- Good balance
of simple and
complex idioms

lons

- Not enough
different idioms
- Usage of space
Could be better
line chart can
be smaller, another
idiam next to it?

Title: The Impact of Gender and Nationality at the IMO
Author: Brandon Truing Pate: 02/10/25
Sheet: 3
Description: Comparison between gender and nationality at the IMO

The Impact of Gender and
Nationality at the IMO

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Nationality at the IMO

Time

Time

Time

Vear

Number of contestants

Line chart - No of male /female contestants

Stacked Area - % of females envolved in STEM

Bubble what - Ranking vs gender

Bubble whent - Ranking vs gender Bubble size - no of participants

-Map - Percentage of female competitors

focus more on trends over time

Operations

- Slider for map year overtime

- Colour scheme

Discussion

Pros

- Shows trends better

- Balances information

(ons

- Lould have another idiom next to line chan

Title: The Impact of Grender and Nationality at the Imo Author: Brandon Truong Date: 08/10/25
Sheet: 4
Description: Comparison

Description: Comparison between gender and nationality lat the IMO over time

Operations Layout - filter by country for heatmap The Impact of Gerder and - Use hue for Nationality at the IMO gender - Slider on map Ranking - Male female for years Time Appearances Discussion - Join douta sets Via country name Year - Ensure data Ts up to date - Ensure enough duta for graphs especially for maps Line Chart - No of male/female overtime Bubble chart - Ranking us Appearances Bubble size = no of participants Heatmap - Country vs problem Stacked Area - To of females enrolled in STEM Title: The Impact of Map - % of female competitors Gender and Author: Brandon Truong Interactivity on multiple charts Date: 09/10/25 - Nationality AND Gender Sheet: 5 Description: Comparison

between gender and nationality at the TMO