AsylumLoupe
EU Asylum Demographics and Movement Information Visualization

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Agenda

Motivation

AsylumLoupe

Overview

Demo

Data Abstraction

Limitations

Implementation

Q&A
Motivation

- Oil crisis, wars and geopolitical issues led to displacement
- European migrant crisis in 2015 made EU Parliament crave for changes in migration policy
- General system for asylum seekers across the globe
- Information visualization (Vis) help with capture movements and trends
What is AsylumLoupe?
Overview

Shows asylum applicant and resettles received by major European countries.

Allow users to interact with the Vis tool to elicit specific asylum data across Europe.

Extend from Europe and MENA regions, compare annual aggregated data with multiple attributes.
Data Abstraction


Eurostat archives the data and provide simple Vis tools to elicit data and interface for downloads.

Asylum Types are more granularly categorized, we capture only applicants and resettlement data.
Data Abstraction

Data entry collected from Eurostat are annually aggregated.

Per data entry contains applicants/resettlement’s gender, age group, original citizenship and EU+ countries that made the intake.

Clear unnecessary attributes, remove outliers, aggregated entry and data with suspicious errors.

Transform to JSON with NumPy/Pandas and ./jq.
Build Project

**Proposal and Collect Data**
Switch from original idea to the AsylumLoupe, crawl interesting data from Eurostat and confirm the topic.

**Nov.**

**Project Update, Sketch and Learn to Code**
Sketch our ideas and create refined user scenarios in project update, create ReactJS template and learn d3.js, etc.

**Dec.**

**Knowledge Transfer, Select Vis**
Read, share and discuss Vis idea from lectures and existing readings, Analyze charts that best fit our data set. Include and remove ideas.

**Mid-Oct.**

**Implementation!**
Starts Implementation, conquer the difficulties when implement OD Maps, tooltips, e-charts and every small itchy details.

**Mid-Nov.**

**Final Touch, Write Up and Present**
Final touch of project code, write final report and create final presentation.

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DEMO
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- User Testing, suggestion from real users for improvement in usability and interaction
- Separate applicants and resettlement data for better visibility
- Trade off of real or log scales in axis
- Comparison, exploration for 2 specified years
- Rely on the intuition to zoom in/out of OD maps
- Introduce datasets with refined category
Q&A
Thank you