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World Development Analysis Application

Information Visualization, MEI, DETI, 2019/20



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DATASET

- Title: "World Development Indicators"
- Subject: Country development indicators from 1960 to 2019
- Source: World Bank (1)
- Data:
 - Accessible through a REST API
 - Can be downloaded for offline analysis
- Indicators:
 - Total population
 - Nurses (per 1000 people)
 - Mortality rate (neonatal, infant, under-5, adult, suicide, lack of hygiene, pollution, cancer, diabetes, etc.)
 - Incidence of HIV, malaria, tuberculosis (per 100 000 people)
 - Total smoking prevalence (% of adults)
 - Total alcohol consumption (liters per capita)
 - Intentional homicides (per 100 000 people)



TARGET AUDIENCE & PROBLEM ADDRESSED

- Non-specialized user, no background knowledge required
- Use-case:
 - User wishes to know the mortality rate of a given country or age range in a given year
 - User wishes to compare indicators between countries and/or years
- Features will address the following questions:
 - How are countries related regarding death rates?
 - How did a country's health and death-related indicator evolved over time?
 - What indicators may affect number of deaths?



VISUALIZATION TECHNIQUES



- World Map
 - presents only 1 indicator
 - color codification
 - > most intuitive form of presenting geographic-related data
- Evolution Line Plot
 - presents 1 or more indicators
 - allows evolution analysis (time)
 - allows data comparison between countries
 - > straightforward form of studying evolution

PHASE 1
PRESENTATION

THANK YOU!
Any Questions?



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