# Information visualisation: project dataset selection

## Below you can find the 3 datasets that were selected by our group in order of preference.

## Choice 1: Global Wind Power dataset

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| Source | <https://globalenergymonitor.org/projects/global-wind-power-tracker/> |
| Summary | The Global Wind Power Tracker (GWPT) is a worldwide dataset of utility-scale, on and offshore wind facilities. It includes wind farm phases with capacities of 10 megawatts (MW) or more. A wind project phase is generally defined as a group of one or more wind turbines that are installed under one permit, one power purchase agreement, and typically come online at the same time. The GWPT catalogs every wind farm phase at this capacity threshold of any status, including operating, announced, pre-construction, under construction, shelved, cancelled, mothballed, or retired. The most recent release of this data was in December 2023. |
| Target user | Regular person with some scientific background interested in the evolution of wind power. They know high school physics like the difference between power & energy and understand prefixes such as kilo, mega, giga, tera, ... but they are no energy expert. |
| Initial ideas | 1. GIS visualisation of global wind energy distribution. 2. Evolution over time of installed wind power (animation) 3. What is the largest relative / absolute growth area? 4. Where are projects being cancelled? |
| Size | 26.500 observations in 29 features |

## Choice 2: Billionaires dataset

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| Source | <https://www.kaggle.com/datasets/endofnight17j03/billionaires-statistics-dataset> |
| Summary | Billionaires Statistics Dataset contains a comprehensive dataset compiled from various reputable sources, including official reports, government databases, financial institutions, and reputable publications such as Forbes, Bloomberg, and World Bank. The dataset covers a wide range of topics, including wealth distribution, demographic trends, economic indicators, and geographic coordinates.  The data was collected through a combination of manual data collection and automated data extraction techniques. Manual data collection involved researchers and analysts gathering information from official reports, publications, and reputable websites. Automated data extraction techniques, such as web scraping tools and APIs, were also utilized to extract data from online sources in a structured format. |
| Target user | A non-financial regular person interested in wealth distribution. They know what currency is and can distinguish millions from billions. |
| Initial ideas | 1. Graphs of wealth distribution by category 2. Geographical chart of wealth distribution 3. Net worth by industry 4. Distribution of gender, age, self-made or not, etc. |
| Size | 2.540 observations in 35 features |

## Choice 3: Movie dataset

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| Source | <https://www.kaggle.com/datasets/ashishjangra27/imdb-movies-dataset> |
| Summary | IMDB is one of the main sources which people use to judge the movie. This dataset contains data of many movies and series listed on the official website of IMDB. Its features are name of the movie, year of release, rating, amount of votes, movie certification, genre of the movie, runtime, gross income generated by the movie, directors who worked on the movie. |
| Target user | A movie enthusiast. Knows what a director or producer is. Has prior knowledge about movie ratings (PG, R, ...). |
| Initial ideas | 1. Identify trends in movie release dates and analyze their impact on revenue. 2. Analyze the relationship between budget, revenue, and popularity to determine factors that contribute to a movie's success. 3. Explore the impact of movie genres on popularity and revenue. 4. Investigate the correlation between runtime and audience engagement. 5. Visualize movie popularity over time and identify popular genres in different periods. |
| Size | 2.500.000 observations in 14 features |

## Team members

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