**Research question**

**The design of the the visualization**

Our main research question was how countries of similar human deveplom index handled the covid 19 pandemic.

Our domain of interest is quite broad, since the covid-19 pandemic affect every part of the world and is possible the most currently reserched topic.

To narrow it down, we have identified a few possible improvement from

One such way could be from looking at the official WHO corona dashboard and dataset. (Kilde)

Here, all data is convered, but

Due to aktuaclly, its difficult to design a visualize without making some assumptions from the develkplo and thefe for accnot directly artucalte their needs (Kilde)

Human deveoplom index is chosen as the varabi, since its

Our intent design is such a way for the user to explore and compare data from countries of similar HDI, and to view the develop of time

# What

Our dataset is continuous multidimensional table updated set with entries from around the globe, but otherwise static

There are 54 attributes in the dataset and is a mix of categorical and quantitative attributes. It also contain two columns from another dataset, lat and long, which are needed for later visual encoding. The ordering of the data is mostly sequential, since there is min and/or max range, but a few attributes are hierarchical, such as date.

During data preprocessing, some columns were created with ordinal and hi hdi was copied into a interval and with hierarchical structure.

Due to complexity of the data, it’s not possible for our intended target audience to quickly partition and view the data meaningfully and draw conclusions in current table set up.   
Another Visualization is needed to properly communicate the data in a more intuitively and readily understood that effectively helps the user to solve their intended task.

## Why

Does the research question need a visualization to be investigated?

Visualization is needed to properly communicate the dateset table type into a more inituatly to compare trends and

The research question

Consume (existing information)

Produce new information

Discover is a possibly – for example, if we look at Sweden and other Nordic contires. Here we can see that Sweden generally is worse of on all parameters – this could be lead to generate new research question as to why is the case, or the visualization can confirm an exiting hypothesis, such as affect of corona lock-down policy in countries of similar hdi

Which tasks need to be supported by the visualization?

Hvad er tasks

Can we map domain-specific to abstract research tasks?

What actions are directed towards which targets?

Hvad er actions

Consume

Not produce

How

Which design decisions are taken?

What visualization techniques are appropriate in the given context?

How do we visually map data features to visual features?

Color hue used to encode the differenct continent

Which interaction means are necessary to perform the given task?

Visual encode