

University College Cork



CS3205 Lab Report 1

HDI Trends and Multidimensional Projections

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February 26, 2022

Contents

1	Introduction	1
1.1	The Problem	1
1.2	The Datasets	1
1.3	The Role of Visualisations	1
2	Data Description	1
2.1	hdr.xlsx	1
2.2	hdi.csv	1
3	Task 1	1
3.1	Free Exploration	1
3.1.1	HDI Histogram	1
3.1.2	Global Average HDI	1
3.1.3	Min/Max HDI Radial Plot	2
3.1.4	Expected Population Growth	2
3.1.5	Male/Female Average Years Education	2
3.2	Specific Observations	2
3.2.1	Spurious Values	2
3.2.2	HDI Global Heatmap	2
3.2.3	Correlated/Uncorrelated Attributes	2
3.2.4	Hypotheses for Previous Patterns	3
3.2.5	Usefulness of All Visualisations	3
3.2.6	Alternative Visualisations	3
4	Task 2	3
4.1	Corel Projections Comparison	3
4.2	CBR Projections Comparison	3
4.3	Dataset 1 Projections Comparison	3
4.4	Dataset 2 Projections Comparison	3
4.5	Projections of HDR	3
5	Conclusions	3
6	References	3

1 Introduction

1.1 The Problem

the problem

1.2 The Datasets

the datasets

1.3 The Role of Visualisations

the role of visualisations

2 Data Description

2.1 hdr.xlsx

Description of data.

2.2 hdi.csv

Description of data.

3 Task 1

3.1 Free Exploration

In the free exploration section of the assignment I have created visualisations which give a broad overview of the general distribution of HDI across countries when looking at specific attributes of those countries.

Each of the following visualisations will include:

- A graphic
- A description of a pattern (or lack of)
- A hypothesis as to the cause of this pattern
- The dataset from which the data came

3.1.1 HDI Histogram

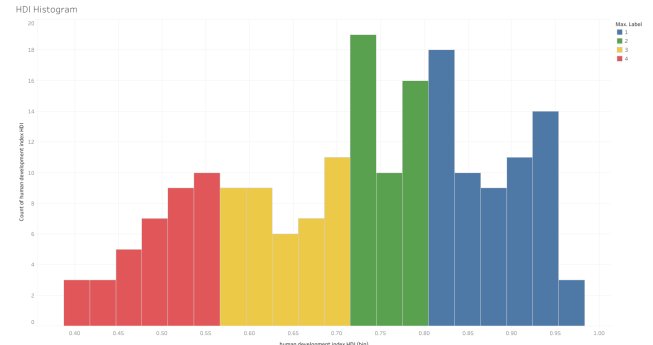


Figure 1: my hdi caption

a

3.1.2 Global Average HDI

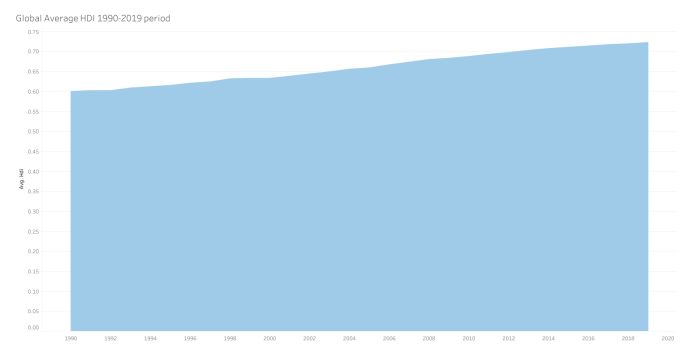


Figure 2: no dips

a

3.1.3 Min/Max HDI Radial Plot

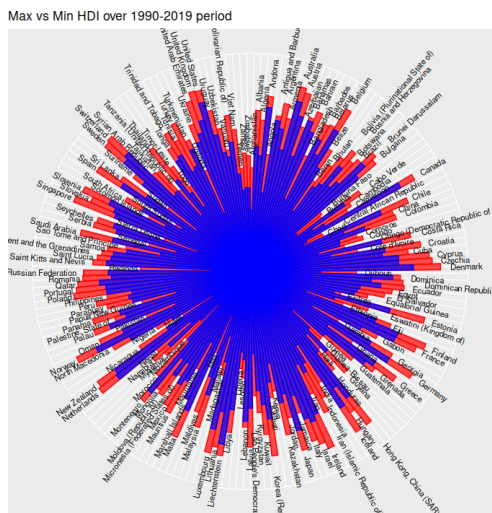


Figure 3: going in circles

a

3.1.4 Expected Population Growth



Figure 4: sexy visual

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3.1.5 Male/Female Average Years Education



Figure 5: girl power

a

3.2 Specific Observations

In the specific observations section of the assignment I have created visualisaions in line with the task list specifications.

3.2.1 Spurious Values

3.2.2 HDI Global Heatmap

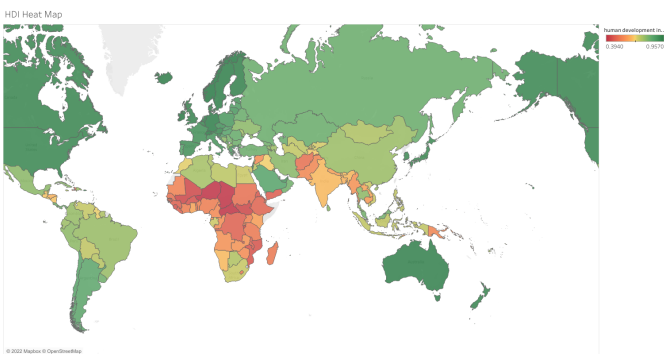


Figure 6: what a pretty map

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3.2.3 Correlated/Uncorrelated Attributes

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3.2.4 Hypotheses for Previous Patterns

a

3.2.5 Usefulness of All Visualisations

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3.2.6 Alternative Visualisations

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4 Task 2

Results for task 2.

4.1 Corel Projections Comparison

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4.2 CBR Projections Comparison

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4.3 Dataset 1 Projections Comparison

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4.4 Dataset 2 Projections Comparison

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4.5 Projections of HDR

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5 Conclusions

Conclusions from overall assignment, emphasis on data sets, exercises and using visualisations.

6 References

References?