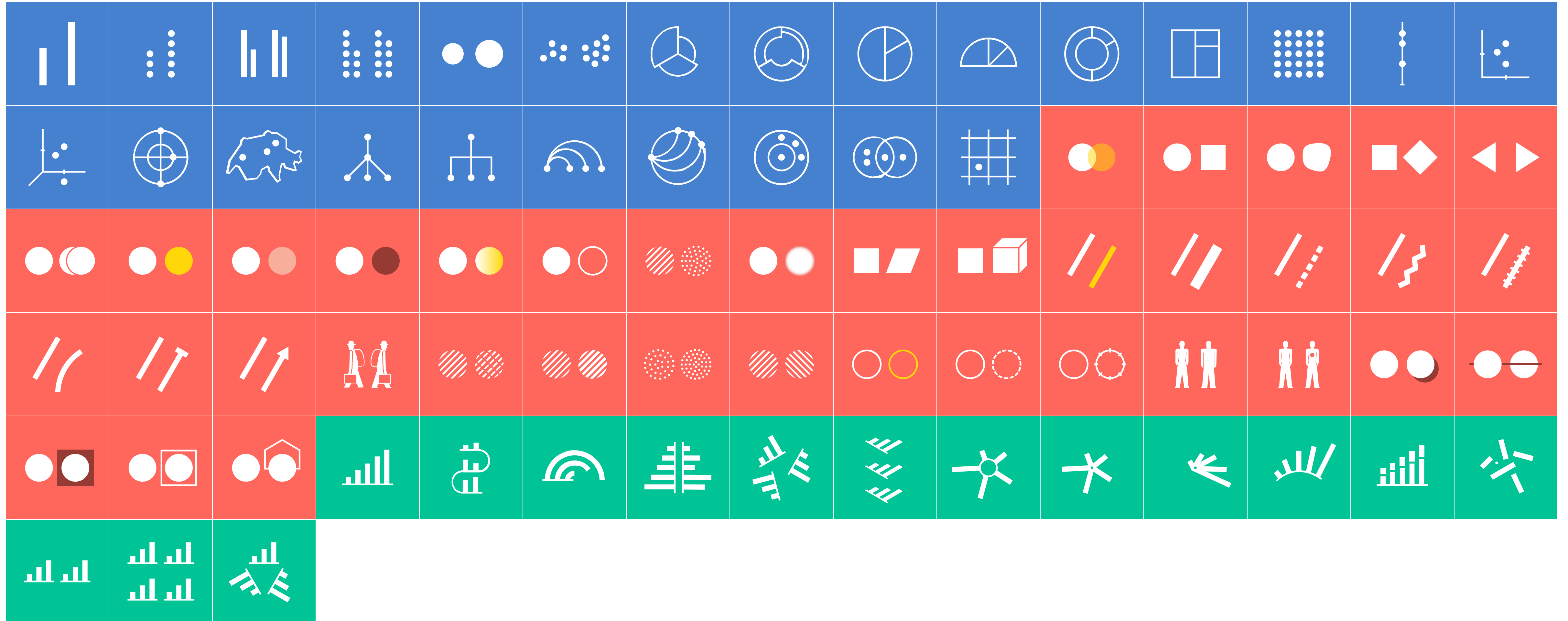


**Science
Communication
Uni Basel
21.11.2024**



**Superdot Studio
Nicole Lachenmeier
Darjan Hil**

Modular Information Design Elements



Exercise E

in-class

Class	Superdot Studio / Modular Information Design 21.11.2024
Task	Multidimensional area graph
Material	Grid A5 paper / 4x color pens / ruler / scanner app
Step 1	Step by step instruction for the EU dataset
Step 2	Scan (with scanning app) your sketch as .jpg Upload your sketch/table to Adam till Thursday 21.11 / 10pm

Modular Information Design

Europe in Numbers

In-class Exercise E

1 Data Dimensions

Total Population



Area size

Total Population



Linear axis with line break

COUNTRY	Total Pop2021 in 1 mio	Pop a*a
Iceland	0.4	0.6
Latvia	2	1.4
Croatia	4	2.0
Norway	5	2.3
Switzerland	9	2.9
Hungary	10	3.1
Portugal	10	3.2
Romania	19	4.4
Spain	47	6.9
France	68	8.2
SUM or MEDIAN	175	

Modular Information Design

Europe in Numbers

In-class Exercise E

4 Data Dimensions

Total Population

Quantity 2A.5

Area size

COUNTRY	Total Pop2021 in 1 mio
Iceland	0.4
Latvia	2
Croatia	4
Norway	5
Switzerland	9
Hungary	10
Portugal	10
Romania	19
Spain	47
France	68
SUM or MEDIAN	175

Total Population

Sorting 4A.2

Linear axis with line break

COUNTRY	In E.U.
Iceland	non EU
Latvia	in EU
Croatia	in EU
Norway	non EU
Switzerland	non EU
Hungary	in EU
Portugal	in EU
Romania	in EU
Spain	in EU
France	in EU
SUM or MEDIAN	10

EU / non EU

Color 3A.1

Basic Colors

COUNTRY	PopDensity per km2 2020
Iceland	4
Latvia	31
Croatia	72
Norway	15
Switzerland	219
Hungary	107
Portugal	112
Romania	84
Spain	96
France	125

Population Density

Pattern 3D.1

Texture

Difference Population

Contour 3E.2

Interruption

COUNTRY	DiffPop 2021_2011 in percent
Iceland	16%
Latvia	-8%
Croatia	-6%
Norway	10%
Switzerland	10%
Hungary	-3%
Portugal	-3%
Romania	-0%
Spain	2%
France	1%

Exercise E homework

Class Superdot Studio / Modular Information Design
21.11.2024

Task Multidimensional area graph with EU data

Material Grid A5 paper / 4x color pens / ruler / scanner app

Explanation Design the line graph like we did in class step by step. This time some things are different.
Select the correct data from the table.

Upload Scan (with scanning app) your sketch as .jpg
Upload your sketch/table to Adam till Wednesday 27.11 / 10am

Modular Information Design

Europe in Numbers

Homework Exercise E

COUNTRY	CODE	Total Pop2021 in1mio	DiffPop 2021_2011 in percent	LandArea 2022 in_1000KM2	PopDensity per km2 2020	Degree of urbanisation 2021	Position Europa	In E.U.	Euro	Pop a*a/2
Iceland	IS	0.4	16%	103	4	94%	North	non EU	no EURO	0.3
Latvia	LV	2	-9%	63	31	68%	North	in EU	EURO	0.7
Croatia	HR	4	-6%	56	72	58%	South	in EU	EURO	1.0
Norway	NO	5	10%	385	15	83%	North	non EU	no EURO	1.2
Switzerland	CH	9	10%	41	219	74%	West	non EU	no EURO	1.5
Hungary	HU	10	-3%	91	107	72%	East	in EU	no EURO	1.6
Portugal	PT	10	-3%	91	112	67%	South	in EU	EURO	1.6
Romania	RO	19	-5%	234	84	54%	East	in EU	no EURO	2.2
Spain	ES	47	2%	503	95	81%	South	in EU	EURO	3.4
France	FR	68	4%	634	123	81%	West	in EU	EURO	4.1
SUM or MEDIAN		175	-0.5%	2'202	89.5	73%	10	10	10	
CATEGORY		Total Pop2021 in1mio	DiffPop 2021_2011 in percent	LandArea 2022 in_1000KM2	PopDensity per km2 2020	Degree of urbanisation 2021	Position Europa	In E.U.	Euro	
Iceland	IS	0.4	16%	103	4	94%	North	non EU	no EURO	0.3
Latvia	LV	2	-9%	63	31	68%	North	in EU	EURO	0.7
Croatia	HR	4	-6%	56	72	58%	South	in EU	EURO	1.0
Norway	NO	5	10%	385	15	83%	North	non EU	no EURO	1.2
Switzerland	CH	9	10%	41	219	74%	West	non EU	no EURO	1.5
Hungary	HU	10	-3%	91	107	72%	East	in EU	no EURO	1.6
Portugal	PT	10	-3%	91	112	67%	South	in EU	EURO	1.6
Romania	RO	19	-5%	234	84	54%	East	in EU	no EURO	2.2
Spain	ES	47	2%	503	95	81%	South	in EU	EURO	3.4
France	FR	68	4%	634	123	81%	West	in EU	EURO	4.1

Modular Information Design

Europe in Numbers

Homework Exercise E

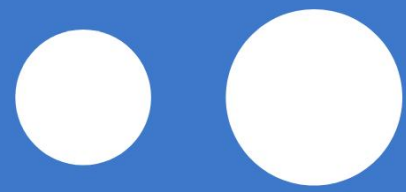
Sorting: free choice

5 Data Dimensions

Total Population

Quantity

2A.5

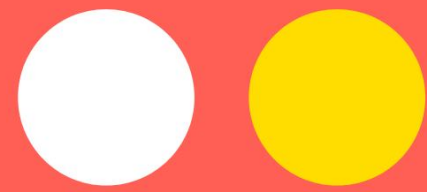


Area size

Land area

Color

3A.1



Basic Colors

EU / non EU

Color

3A.5



Filled and empty

Population Density

Isotype

3F.4

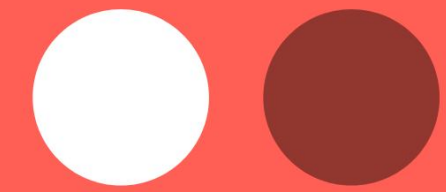


Background
Shad

Difference Population

Color

3A.3



Saturation with black

COUNTRY	CODE	Pop	a*a/2
Iceland	IS	0.3	
Latvia	LV	0.7	
Croatia	HR	1.0	
Norway	NO	1.2	
Switzerland	CH	1.5	
Hungary	HU	1.6	
Portugal	PT	1.6	
Romania	RO	2.2	
Spain	ES	3.4	
France	FR	4.1	
SUM or MEDIAN			

LandArea	2022	in_1000KM2
0.3		
0.7		
1.0		
1.2		
1.5		
1.6		
1.6		
2.2		
3.4		
4.1		

In E.U.
non EU
in EU
in EU
non EU
non EU
in EU
in EU
in EU
in EU
in EU

PopDensity	per km2	2020
0.3		
0.7		
1.0		
1.2		
1.5		
1.6		
1.6		
2.2		
3.4		
4.1		

DiffPop	2021_2011	in percent
0		
0		
4		
0		
9		
0		
0		
7		
0		

Modular Information Design

Europe in Numbers

In-class Exercise D

4 Data Dimensions

Total Population



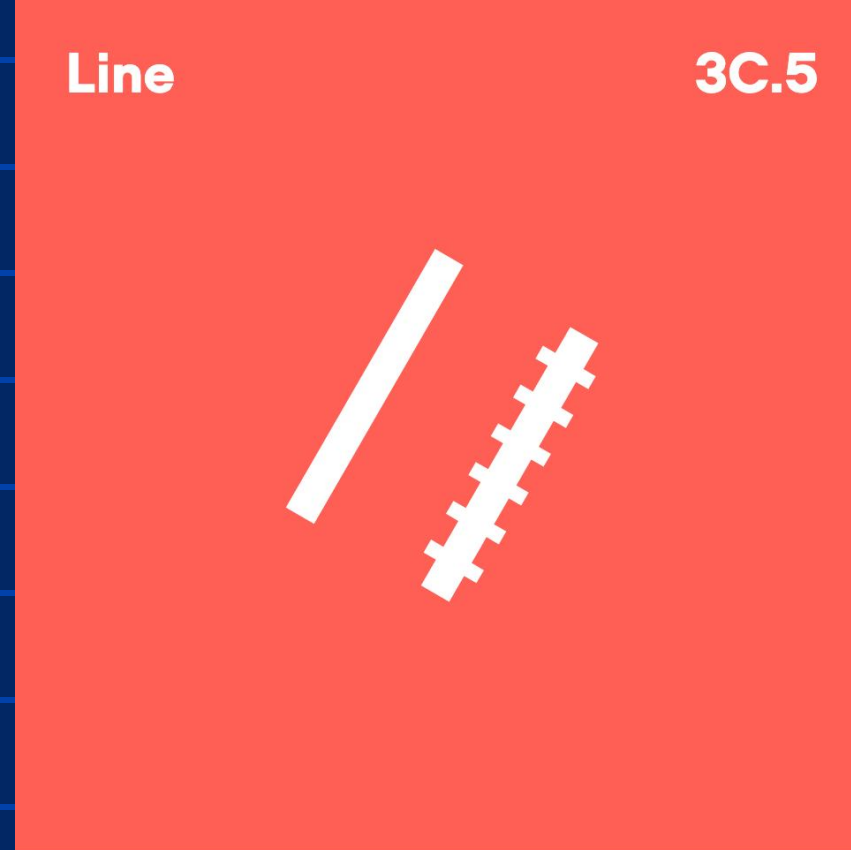
Line length

EU / non EU



Color

Urbanisation



Details

Position in Europe



Detail Beginning or end

COUNTRY	Total Pop2021 in 1mio
Croatia	4
France	68
Hungary	10
Iceland	0.4
Latvia	2
Norway	5
Portugal	10
Romania	19
Spain	47
Switzerland	9
SUM or MEDIAN	175

COUNTRY	In E.U.
Croatia	in EU
France	in EU
Hungary	in EU
Iceland	non EU
Latvia	in EU
Norway	non EU
Portugal	in EU
Romania	in EU
Spain	in EU
Switzerland	non EU
SUM or MEDIAN	10

COUNTRY	Degree of urbanisation 2021
Croatia	58%
France	78%
Hungary	72%
Iceland	85%
Latvia	55%
Norway	68%
Portugal	67%
Romania	61%
Spain	81%
Switzerland	61%
SUM or MEDIAN	

COUNTRY	Position Europa
Croatia	South
France	West
Hungary	East
Iceland	North
Latvia	North
Norway	North
Portugal	South
Romania	East
Spain	South
Switzerland	West
SUM or MEDIAN	10

Modular Information Design

Europe in Numbers

In-class Exercise D

Sorting

4A.1

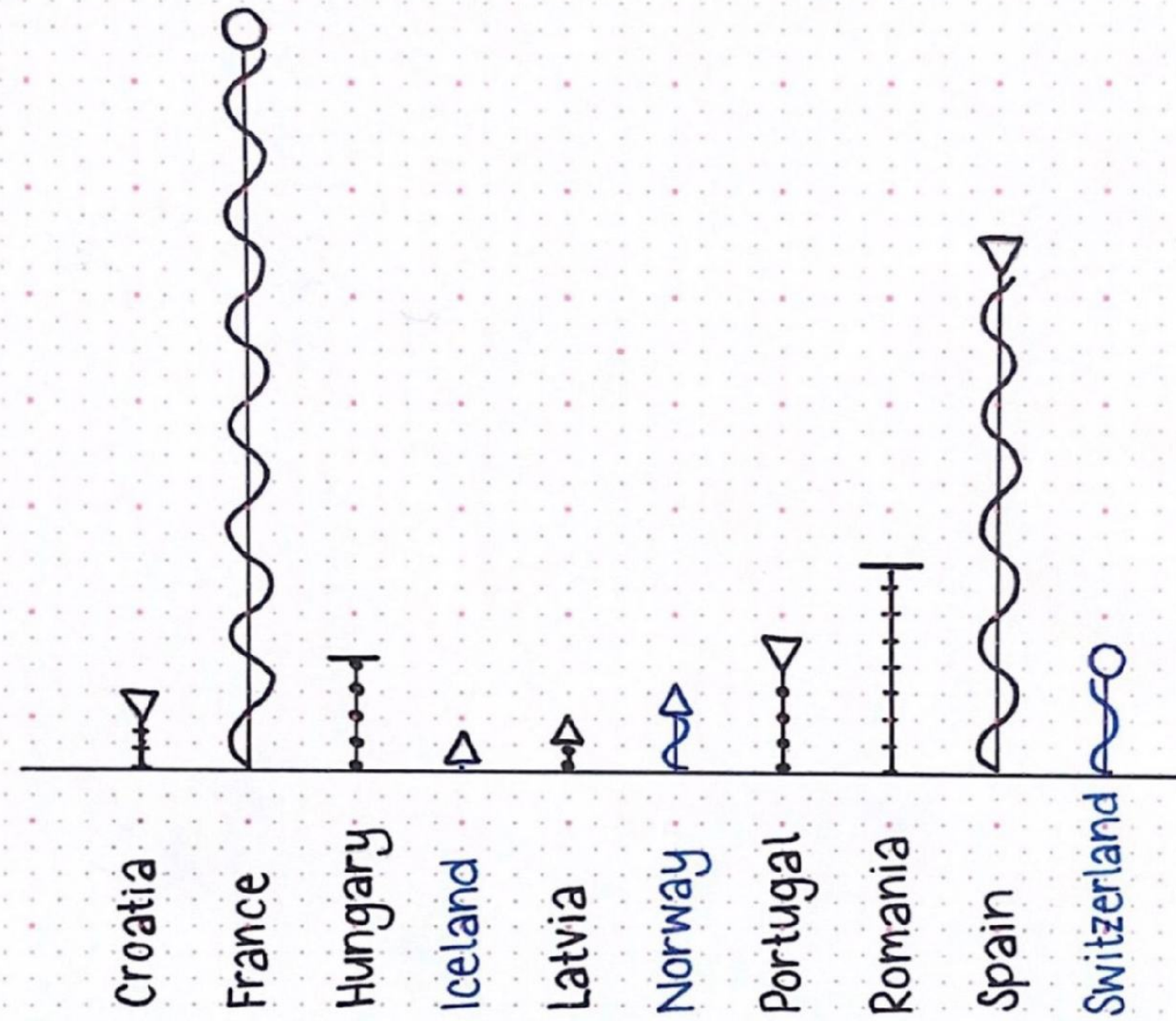


Linear axis

Total
Pop2021
in 1 mio

4
68
10
0.4
2
5
10
19
47
9
175

Name / Nr. Nina / 5



Data → MID Element → Legend

|| Total population : 10 mm = 10 mio

⌘ = EU ⌘ = non EU

|| Urbanisation : | = + + + + || = ● ● ● ● || = ~ ~ ~ ~ || = —

Position Europa : North = Δ East = — South = ▽ West = ○

Modular Information Design Europe in Numbers

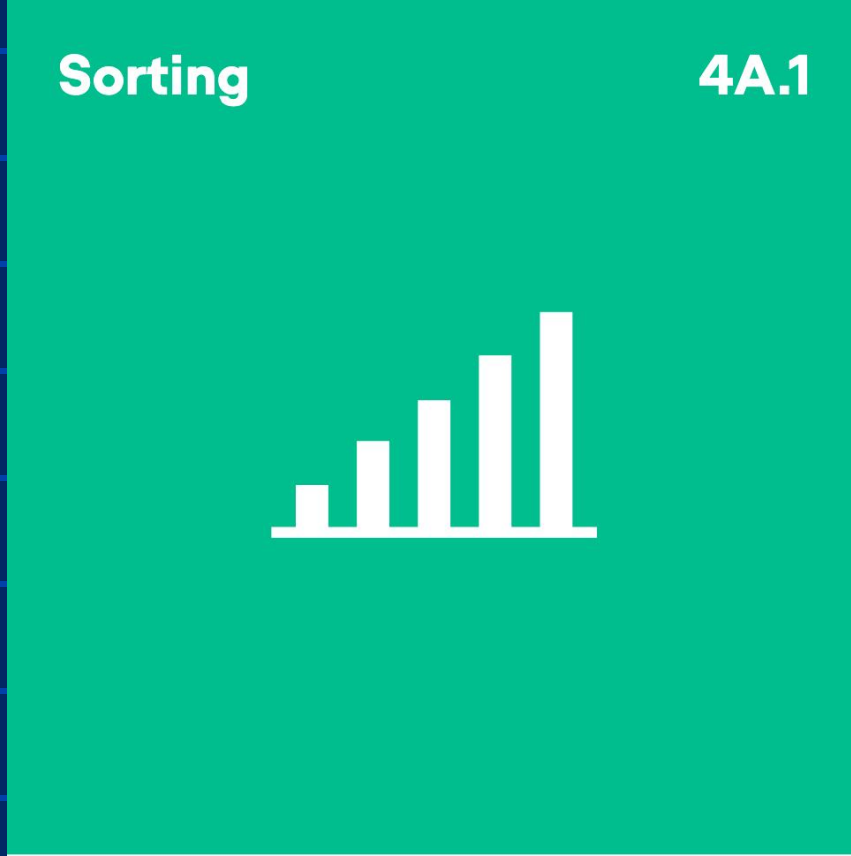
4 Data Dimensions

Total Population



Line length

Total Population



Linear axis

EU / non EU



Color

Urbanisation



Details

Position in Europe



Detail Beginning or end

COUNTRY	Total Pop2021 in 1 mio
Croatia	4
France	68
Hungary	10
Iceland	0.4
Latvia	2
Norway	5
Portugal	10
Romania	19
Spain	47
Switzerland	9
SUM or MEDIAN	175

COUNTRY	Total Pop2021 in 1 mio
Iceland	0.4
Latvia	2
Croatia	4
Norway	5
Switzerland	9
Hungary	10
Portugal	10
Romania	19
Spain	47
France	68
SUM or MEDIAN	175

COUNTRY	In E.U.
Croatia	in EU
France	in EU
Hungary	in EU
Iceland	non EU
Latvia	in EU
Norway	non EU
Portugal	in EU
Romania	in EU
Spain	in EU
Switzerland	non EU
SUM or MEDIAN	10

COUNTRY	Degree of urbanisation 2021
Croatia	50%
France	72%
Hungary	72%
Iceland	55%
Latvia	55%
Norway	55%
Portugal	67%
Romania	67%
Spain	81%
Switzerland	67%
SUM or MEDIAN	

COUNTRY	Position Europa
Croatia	South
France	West
Hungary	East
Iceland	North
Latvia	North
Norway	North
Portugal	South
Romania	East
Spain	South
Switzerland	West
SUM or MEDIAN	10

Modular Information Design

Europe in Numbers

In-class Exercise D

Sorting

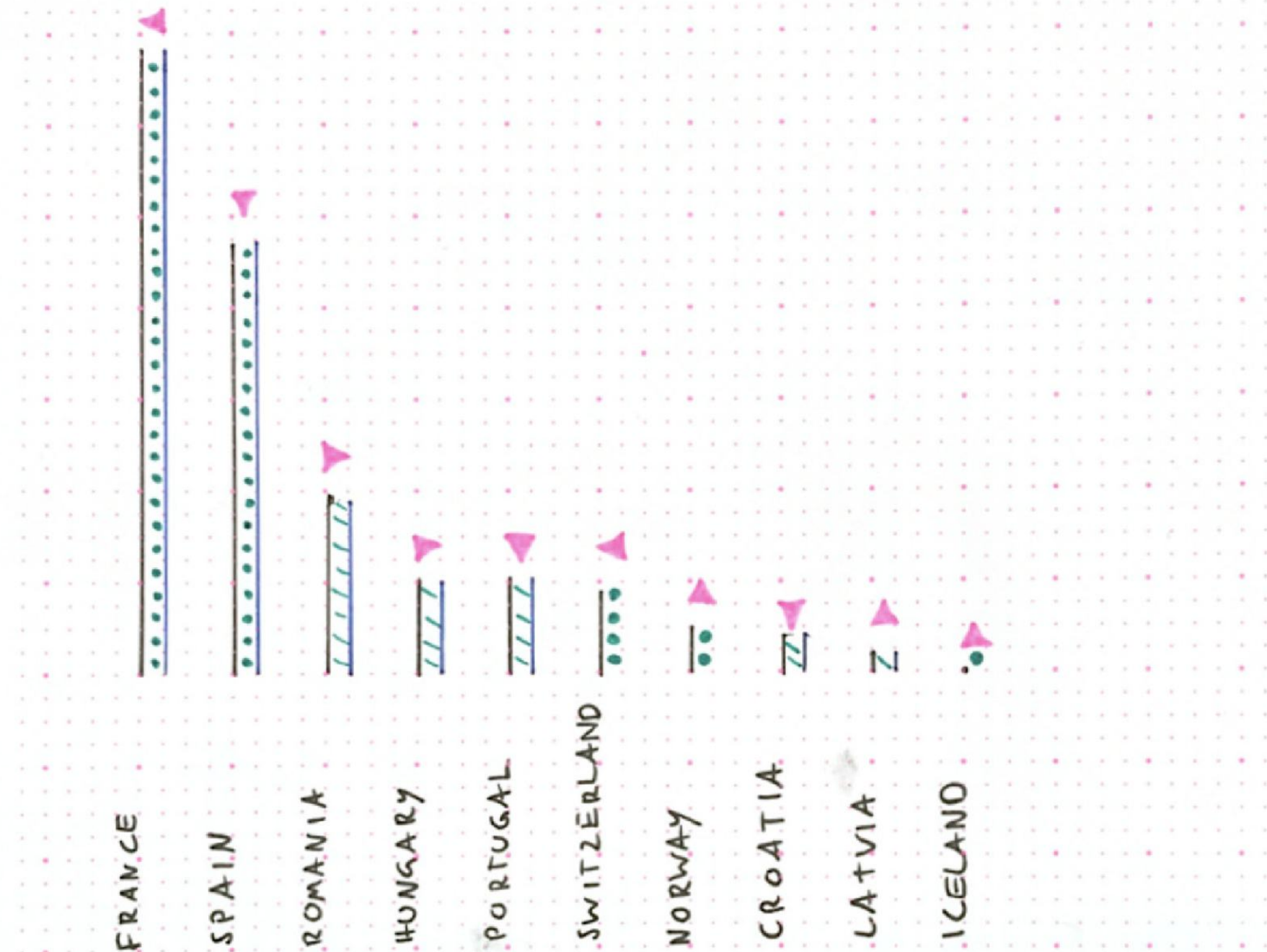
4A.1



Linear axis

COUNTRY	Total Pop2021 in 1mio
MEDIAN	175
France	68
Spain	47
Romania	19
Hungary	10
Portugal	10
Switzerland	9
Norway	5
Croatia	4
Latvia	2
Iceland	0.4

Name/Nr. Fabrina J. - D.1



Data → MID Element → Legend

— = 1cm ≙ 10 Mio Population

— = in EU

▲ ≙ North ▼ ≙ South ► ≙ East ◄ ≙ West

//// ≙ low Urbanisation ●●●● ≙ high Urbanisation

Modular Information Design


Europe in Numbers

Homework Exercise D

4 Data Dimensions

Population Density


Quantity 2A.1

A simple bar chart icon with two vertical bars of different heights.

Line length

Population Density

Sorting 4A.5

A starburst icon with five lines radiating from a central point.

Radially
Evenly distributed

Euro / no Euro

Line 3C.1

Two parallel diagonal lines, one white and one yellow.

Color

Urbanisation

Line 3C.5

Two parallel diagonal lines, one white and one with a dashed pattern.

Details

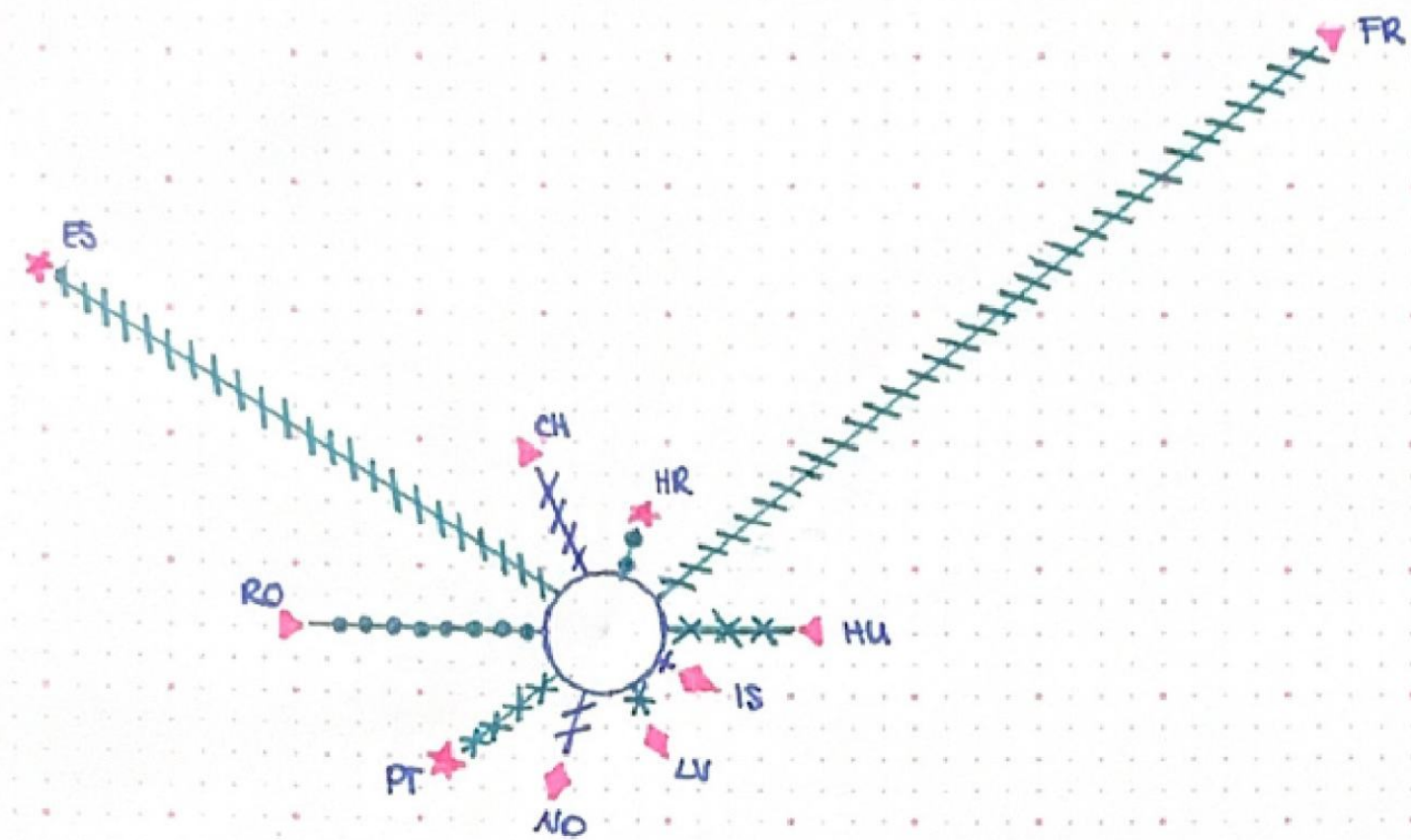
Position in Europe

Line 3C.7

Two parallel diagonal lines, one white and one with a T-shaped end.

Detail
Beginning or end

Name / Nr. VITTORIA/D2



Data → MID Element → Legend

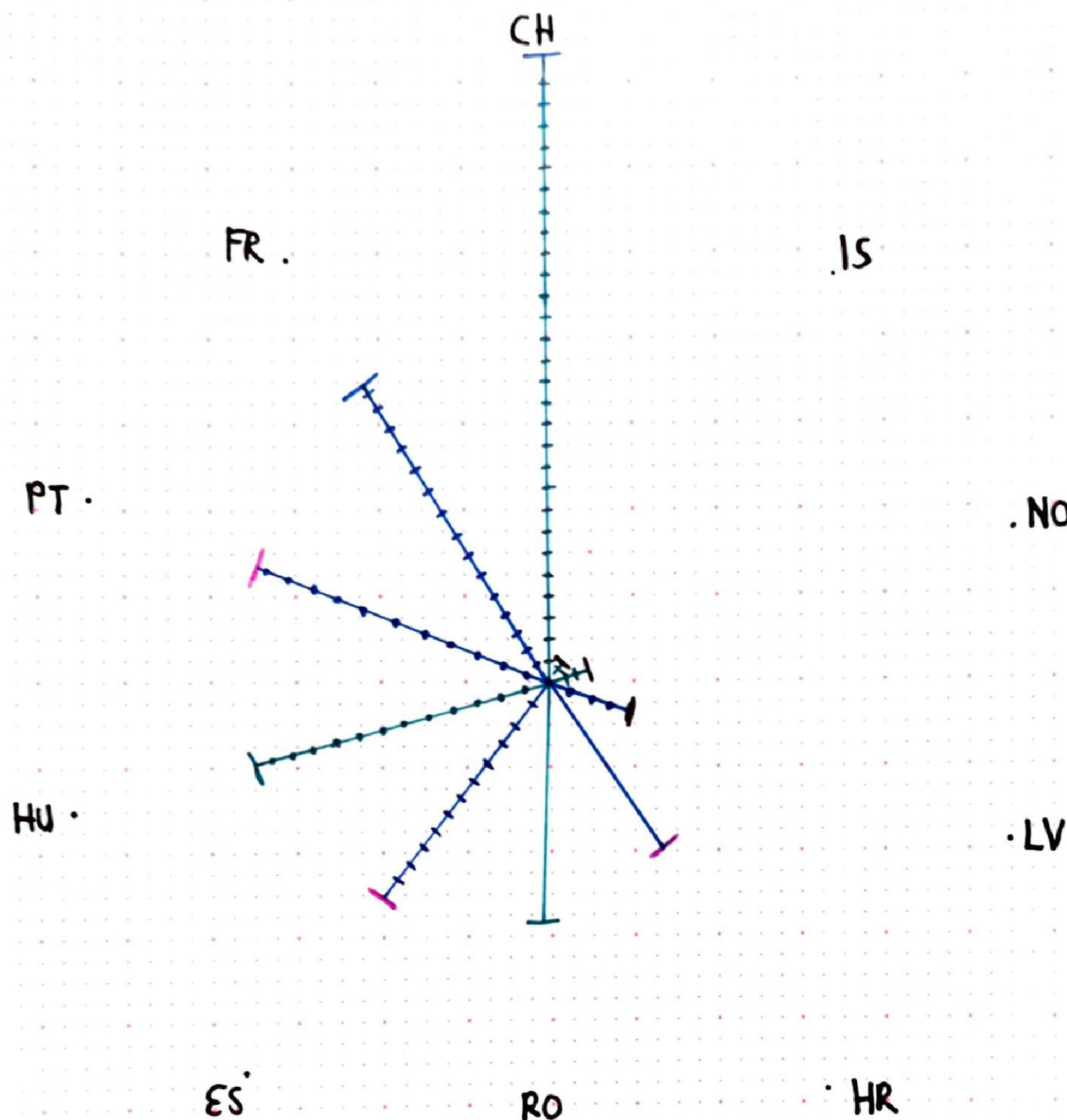
Population Density → 10 mm = 10 Mio

% = EU % = no EU

Degree of urbanization → I = •, II = ✕, III = //, IV = -

Position in Europe → South = ★, North = ◆, Est = ▼, West = ▲

Name / Nr. Philipp/b



Data → MID Element → Legend

Bevölkerungsdichte: 30 Pers. per km² = 10 mm

Euro: — kein Euro: —

Urbanisationsstufe 1-4: 1 = — 2 = →→ 3 = ++ 4 = ✕✕

Position in Europa: Nord = — Süd = — Ost = — West = —

CH = Schweiz IS = Island NO = Norwegen LV = Lettland

HR = Kroatien RO = Rumänien ES = Spanien HU = Ungarn

PT = Portugal FR = Frankreich

Exercise D Reflection

https://bit.ly/superdot_uniBS_sessionD

