

Data Validation Protocol

Data consistency (PTR & FFW)

Sample distribution per demographic

- How? Visuals for Sample Distribution. No flagging
- Outcome:
 - Histograms per variable per COUNTRY
 - Table per variable per NUTS
- Tasks:
 - Write a function

Missing values per variable

- How? Just a count of missing values
- Outcome:
 - Table listing variables that surpass a threshold (More than 10% sample as 98/99)
- Tasks:
 - We need a list of variables (codebook)
 - Write a function

Difficulty Score (Face-to-Face)

- BoxPlot

Internal Checks (FFW)

Correlation of variables within subpillars

- How? We need to define method:
 - Cramér's V for Association in Contingency Tables
 - Correspondence Analysis

Changes over time

- How? mean t-tests
- Outcome: Table listing variables that present significant changes over time
- We need the merge from global
- Tasks:
 - Identify for which variables we can do this

- Identify a subset of key variables
- Write a function

Sig. diff. between NUTS regions

- How? mean t-tests
- Outcome: Table listing variables that present significant diff
- Tasks:
 - Identify a subset of key variables (previous + new key vars)
 - Write a function

External Checks (FFW)

Data Points comparison

- How?
 - We create aggregate scores of our data using Multiple Correspondence Analysis (MCA) or Factor Analysis or Mixed Data (FAMD). Dimensionality reduction per subpillar. Means!!!!
 - We create aggregate scores of the TPS data using simple mean aggregation.
 - We identify for which subpillars the TPS score falls outside the 10% confidence interval of our data.
 - Important to normalize data between [0-1] and to re-orient all individual indicators in the same direction
- Outcome: Dot&Error charts for those subpillars identified.
- Tasks:
 - We need a dataset with TPS data aggregated per country

Notes

1. 5 steps cleaning: Identify, subset, re-orient, normalize, aggregate
2. TPS data with codebook
3. Folders:

- TPS
 - Cleaning
 - VDEM
 - RAW
 - CODE
 - CLEAN
 - ESS
 - RAW
 - CODE

- CLEAN
 - RunMe
- Country Validation
 - Code
 - Step 1
 - Step 2
 - Step 3
 - Output
 - PTR
 - FFW
 - RunMe
- Outcomes Validation
 - GPP
 - Outliers (subnational level)
 - Rankings (country level)
 - QRQ
 - Outliers (expert level)
 - Rankings
 - Matches?

4. Pretest:

- Data Consistency only

5. OUTCOME FINAL

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