

Tidy Data

Classroom Activity 4

Objective

The student will perform data preprocessing for further analysis.

Instructions

- 1. Identify the variables in the following datasets based on the Tidy Data Philosophy:
 - a. Relationship between income and religion in the US from the Pew Forum.
 - b. Billboard Dataset.
 - c. Tuberculosis Dataset from the World Health Organization.
 - d. Weather data from the Global Historical Climatology Network in Mexico.
 - e. Rank of Baby Names from Illinois in 2014 and 2015.
- 2. Clean the datasets and convert them into Tidy Data.
- 3. Identify the type of error in each dataset. Write it in the notebook.

Homework Submission

Submit the following:

Tidy Data – Notebook (ipynb).

Teams

Classroom Activity 4 can be done in teams.

Deadline

• October 16th, 2019 at 12:00 im.

Suggested Readings:

 Tidy Data (Hadley Wickham) https://vita.had.co.nz/papers/tidy-data.pdf



Grading Scheme

Results	Excellent	Good	Fair	Needs Improvement
Notebook				
The students are able to apply correctly the Tidy Data Principles: identifying the type of error and cleaning the Dataset 1.	20.0 pts	15.0 pts	10.0 pts	5.0 pts
The students are able to apply correctly the Tidy Data Principles: identifying the type of error and cleaning the Dataset 2.	20.0 pts	15.0 pts	10.0 pts	5.0 pts
The students are able to apply correctly the Tidy Data Principles: identifying the type of error and cleaning the Dataset 3.	20.0 pts	15.0 pts	10.0 pts	5.0 pts
The students are able to apply correctly the Tidy Data Principles: identifying the type of error and cleaning the Dataset 4.	20.0 pts	15.0 pts	10.0 pts	5.0 pts
The students are able to apply correctly the Tidy Data Principles: identifying the type of error and cleaning the Dataset 5.	20.0 pts	15.0 pts	10.0 pts	5.0 pts