
DATA ANALYSIS

DATA WRANGLING

DATA WRANGLING AND TIDY DATA

Tidy data has a specific structure:

- each variable is in a single column
- each observation is in a single row
- each type of observational unit is in a single table

Country	2011	2012	2013
FR	7000	6900	7000
DE	5800	6000	6200
US	15000	14000	13000

VS.

Country	Year	n
FR	2011	7000
DE	2011	5800
US	2011	15000
FR	2012	6900
DE	2012	6000
US	2012	14000
FR	2013	7000
DE	2013	6200
US	2013	13000

DATA WRANGLING FUNCTIONALITY

Data wrangling functions should allow the analyst to:

- extract a subset of variables from the data frame
- extract a subset of observations from the data frame
- sort the data frame along any combination of variables in increasing or decreasing order
- to create new variables from existing variables
- to create (so-called) pivot tables, by observation groups
- database functionality (joins, etc.)
- etc.

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