# Text Mining Toolkit in R











## What is **Text Mining**?

**Text Mining** combines *Machine Learning* and *Natural Language Processing* (NLP) to draw meaning from unstructured text documents



Machine Learning

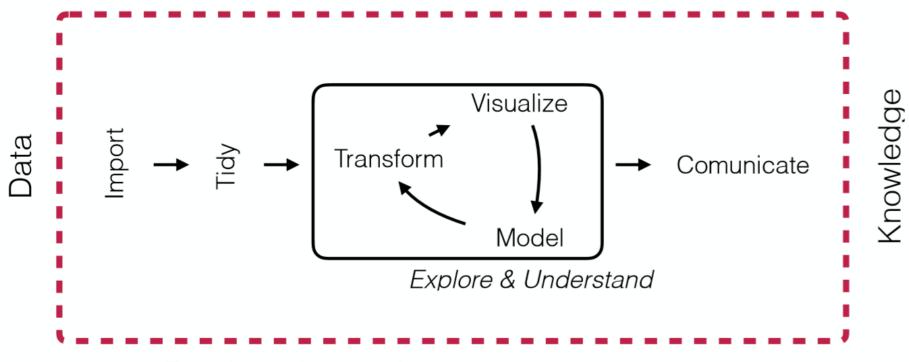


Natural Language Processing





#### Data Science Framework

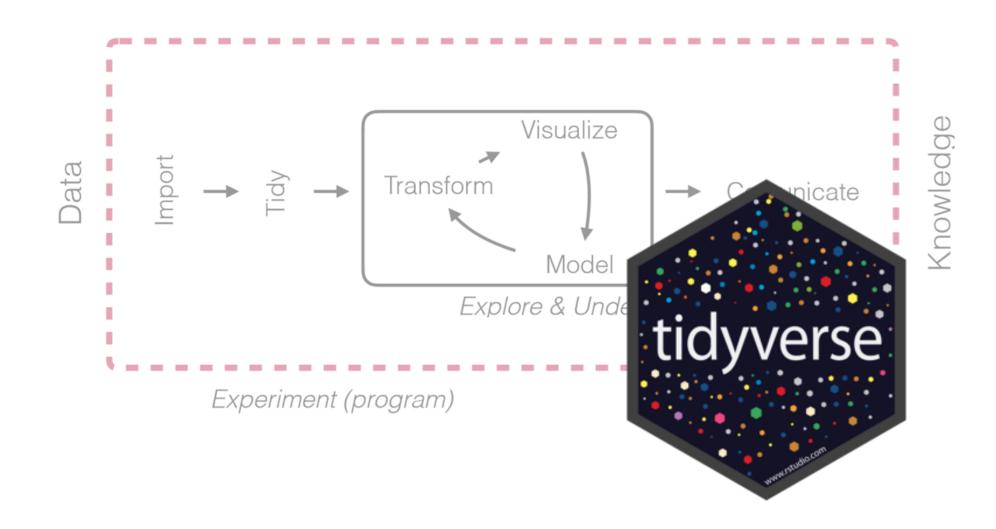


Experiment (program)





#### Data Science Framework







Why tidy data?

- ✓ Makes data analysis easy
- ✓ Is easy to model, visualize and transform
- ✓ Facilitate the creative proces

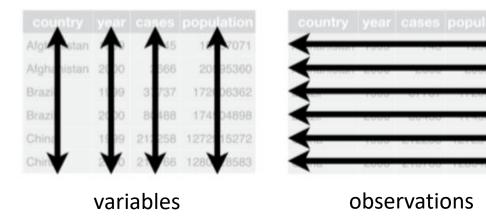


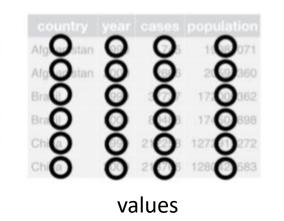


#### How to **tidy** data?

There are three interrelated rules which make a dataset tidy:

- 1. Each variable must have its own column.
- 2. Each observation must have its own row.
- Each value must have its own cell.









#### Example

There are three variables in this data set. What are they?

	Pregnant	Not Pregnant
Male	0	5
Female	1	4





#### Example

Pregnant	Sex	Freq
no	female	4
no	male	5
yes	female	1
yes	male	0

# LET'S GET PRACTICAL





