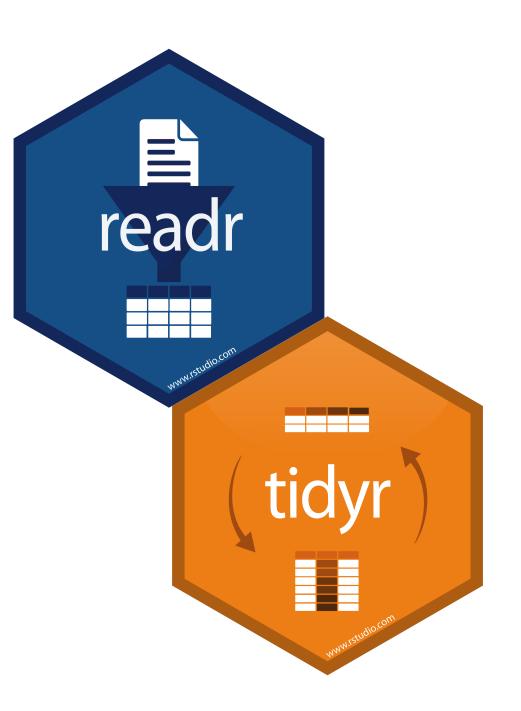
Reading Data with readr and Tidying Data with tidyr 2021-07-09

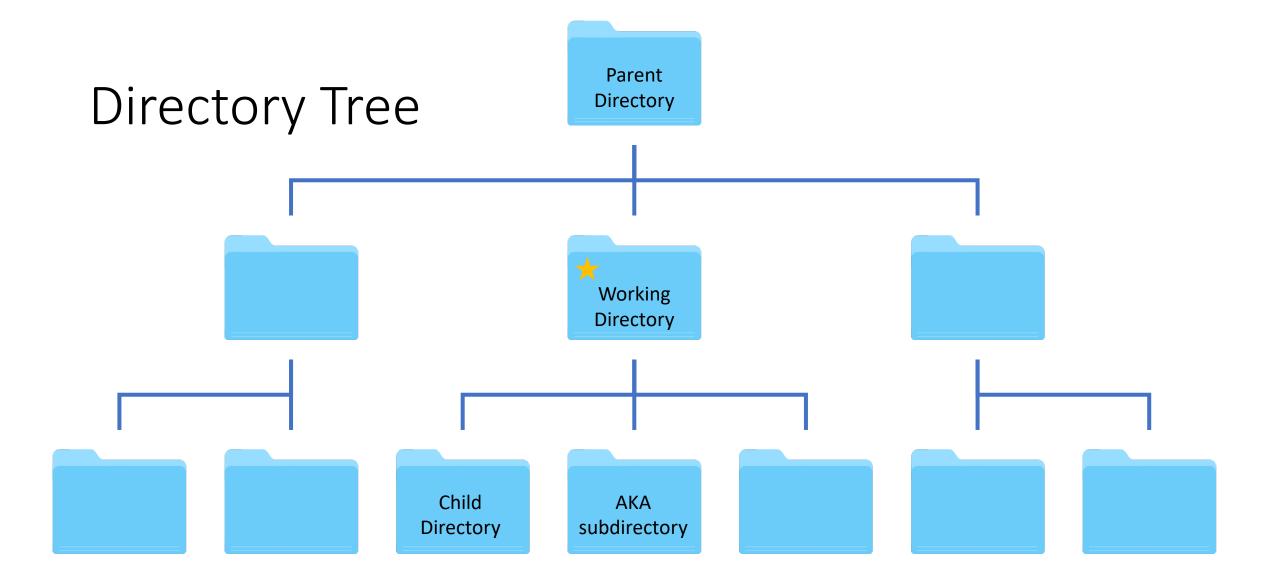


Reading Data

Data File Formats

Data is stored in plain text files with a **delimiter** specifying the boundaries between data entries. The most common delimiters are tabs or commas.

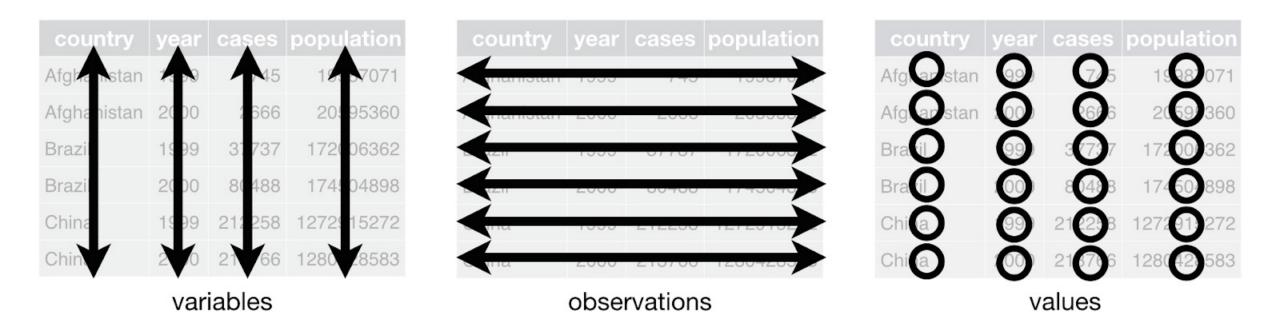
tab separated values (TSV)	spaces
Sepal.Length Sepal.Width Petal.Length Petal.Width Species	Sepal. Length Sepal. Width Petal. Length Petal. Width Species
5.1 3.5 1.4 0.2 setosa	5.1 · 3.5 · 1.4 · 0.2 · setosa
4.9 3 1.4 0.2 setosa	4.9 · 3 · 1.4 · 0.2 · setosa
4.7 3.2 1.3 0.2 setosa	4.7 · 3.2 · 1.3 · 0.2 · setosa
4.6 3.1 1.5 0.2 setosa	4.6 · 3.1 · 1.5 · 0.2 · setosa
5 3.6 1.4 0.2 setosa	5 · 3.6 · 1.4 · 0.2 · setosa
comma separated values (CSV)	Or any other character (BUT NEVER DO THIS)
Sepal.Length,Sepal.Width,Petal.Length,Petal.Width,Species	Sepal.Length/Sepal.Width/Petal.Length/Petal.Width/Species-
5.1,3.5,1.4,0.2,setosa	5.1/3.5/1.4/0.2/setosa-
4.9,3,1.4,0.2,setosa	4.9/3/1.4/0.2/setosa-
4.7,3.2,1.3,0.2,setosa	4.7/3.2/1.3/0.2/setosa-
4.6,3.1,1.5,0.2,setosa	4.6/3.1/1.5/0.2/setosa-
5,3.6,1.4,0.2,setosa	5/3.6/1.4/0.2/setosa-



File Path: working_directory/child_directory

Tidying Data

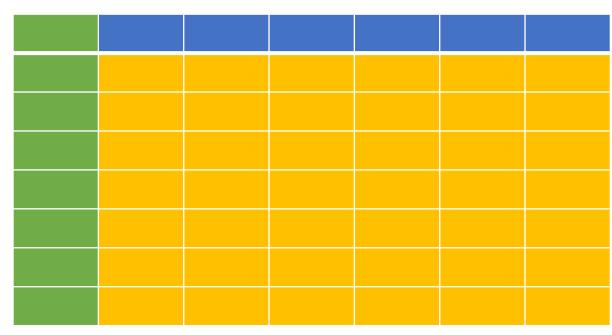
Tidy Data



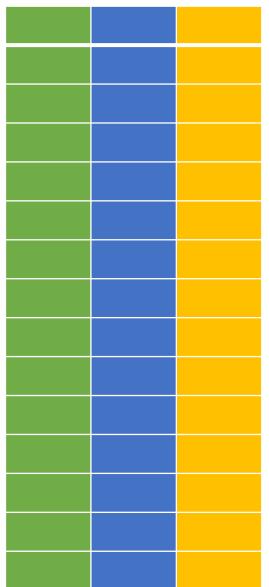
- 1. Each variable is in a column.
- 2. Each observation is a row.
- 3. Each value is a cell.

Wide vs Skinny Data

Wide







DEMO