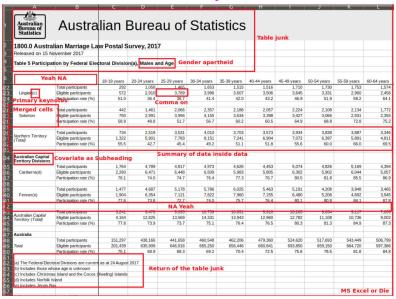
# **Tidying Data**

**Getting and Cleaning Data** 

#### untidy data



#### tidy data



## dplyr functions

```
# to install and load dplyr
install.packages("dplyr")
library(dplyr)
```

- %>% pipe operator for chaining a sequence of operations
- glimpse() get an overview of what's included in dataset
- filter() filter rows
- select() select, rename, and re-order columns
- rename() rename columns
- arrange() reorder rows
- mutate() create a new column
- group\_by() group variables
- summarize() summarize information within a dataset
- left\_join() combining data across data frame

## tidyr functions

```
# to install and load tidyr
install.packages("tidyr")
library(tidyr)
```

- unite() combine contents of two or more columns into a single column
- separate() separate contents of a column into two or more columns

## janitor functions

```
# to install and load janitor
install.packages("janitor")
library(janitor)
```

- clean\_names() clean names of a data frame
- tabyl() get a helpful summary of a variable

#### **skimr** functions

```
# to install and load skimr
install.packages("skimr")
library(skimr)
```

• skim() - summarize a data frame

## The pipe operator: %>%

If you want to: A --> B

In R:

Without the pipe operator **B(A)** 

With the pipe operator A %>% B

Data frame A Function B()

# The pipe operator: %>%

If you want to:  $A \longrightarrow B \longrightarrow C \longrightarrow D$ 

```
If you want to: A \longrightarrow B

In R:

Without the pipe operator B(A)

With the pipe operator A \% > \% B

Data frame A

Function B()

Function D()
```

```
In R:

Without the pipe operator D(C(B(A)))

With the pipe operator A %>% B %>% C %>% D
```

https://dplyr.tidyverse.org/

# Summarizing: Tidying Data

Getting and Cleaning Data