Examples

In this example we will look at a dataset that might be used with the pair t-test.

# Example of *tibble()* and *tribble()* functions to create a data\_frame.

library(tidyverse)

BP\_narrow <- tibble(
 x = c("a", "b"),
 y = c(1,2),
 z = c(3.6, 8.5)
)

BP\_narrow <- tribble(
 ~x, ~y, ~z,
 "a", 2, 3.6,
 "b", 1, 8.5
)

# Example of *pivot\_wider()* and *pivot\_longer()*.

BP\_narrow <- tribble(
 ~subject, ~when, ~spb,
 "BHO", "before", 160,
 "GWB", "before", 120,
 "WJC", "before", 105,
 "BHO", "after", 115,
 "GWB", "after", 135,
 "WJC", "after", 145
)

BP\_wide <- BP\_narrow %>% pivot\_wider(names\_from = "when", values\_from = "spb")
BP\_wide

## # A tibble: 3 x 3
## subject before after
## <chr> <dbl> <dbl>
## 1 BHO 160 115
## 2 GWB 120 135
## 3 WJC 105 145

BP\_narrow\_new <- BP\_wide %>% pivot\_longer(c("before", "after"), names\_to = "when", values\_to = "spb" )
BP\_narrow\_new

## # A tibble: 6 x 3
## subject when spb
## <chr> <chr> <dbl>
## 1 BHO before 160
## 2 BHO after 115
## 3 GWB before 120
## 4 GWB after 135
## 5 WJC before 105
## 6 WJC after 145