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 *spread()* and *gather()*.

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 %>% spread(key = when, value = spb)  
BP\_wide

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

BP\_narrow <- BP\_wide %>% gather(key = when, value = spb, after, before)  
BP\_narrow

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