

# 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