Examples

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

Example of \texttt{tibble()} and \texttt{tribble()} functions to create a data frame.

```r
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 \texttt{spread()} and \texttt{gather()}. 

```r
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

```r
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
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>GWB</td>
<td>after</td>
</tr>
<tr>
<td>3</td>
<td>WJC</td>
<td>after</td>
</tr>
<tr>
<td>4</td>
<td>BHO</td>
<td>before</td>
</tr>
<tr>
<td>5</td>
<td>GWB</td>
<td>before</td>
</tr>
<tr>
<td>6</td>
<td>WJC</td>
<td>before</td>
</tr>
</tbody>
</table>