Examples

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

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

\begin{verbatim}
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 \textit{pivot\_wider()} and \textit{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 GWB before 120
## 3 WJC before 105
## 4 BHO after  115
## 5 GWB after  135
## 6 WJC after  145
\end{verbatim}
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<table>
<thead>
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<tbody>
<tr>
<td>## 2 BHO</td>
<td>after 115</td>
<td></td>
</tr>
<tr>
<td>## 3 GWB</td>
<td>before 120</td>
<td></td>
</tr>
<tr>
<td>## 4 GWB</td>
<td>after 135</td>
<td></td>
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<tr>
<td>## 5 WJC</td>
<td>before 105</td>
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</tr>
<tr>
<td>## 6 WJC</td>
<td>after 145</td>
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