

TER - Résultats - rspan

```
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --
## v ggplot2 3.3.3      v purrr 0.3.4
## v tibble 3.1.2       v dplyr 1.0.6
## v tidyr 1.1.3        v stringr 1.4.0
## v readr 1.4.0        v forcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

library(ggpubr)
library(rstatix)

##
## Attachement du package : 'rstatix'
## L'objet suivant est masqué depuis 'package:stats':
##
##      filter
```

RSPAN

Phrases

```
rspan <- read.csv2("data/rspan_dist.csv", sep = ",", fileEncoding="UTF-8-BOM")
rspan$part <- factor(rspan$part, levels = c("sentence-pre", "sentence-post", "recall-pre", "recall-post"))
rspan$size <- factor(rspan$size, levels = c("4.0", "5.0", "6.0"))
rspan$sim <- as.numeric(rspan$sim)
rspan$dsit <- as.numeric(rspan$dist)

recall <- rspan %>%
  filter(part != 'sentence-pre') %>%
  filter(part != 'sentence-post')

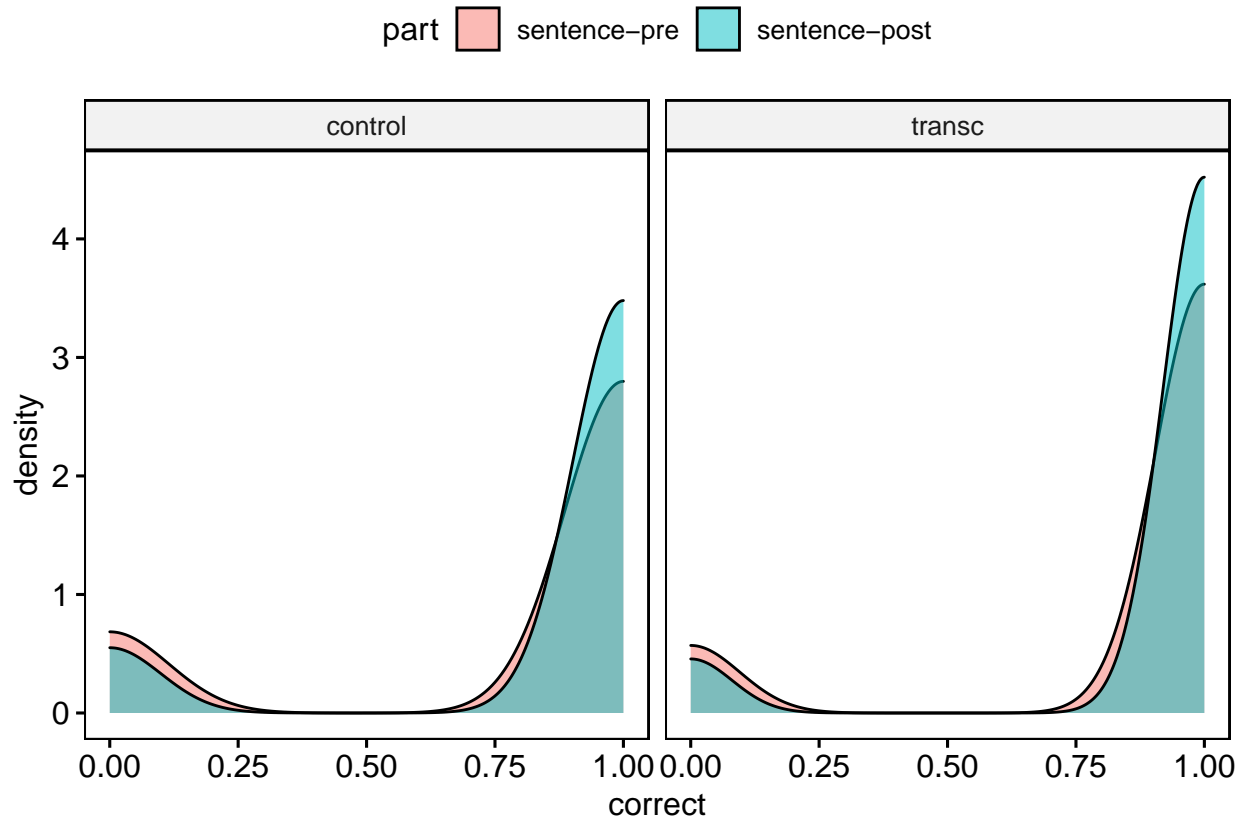
sent <- rspan %>%
  filter(part != 'recall-pre') %>%
  filter(part != 'recall-post')

sent %>%
  group_by(groupe, part) %>%
  get_summary_stats(correct)

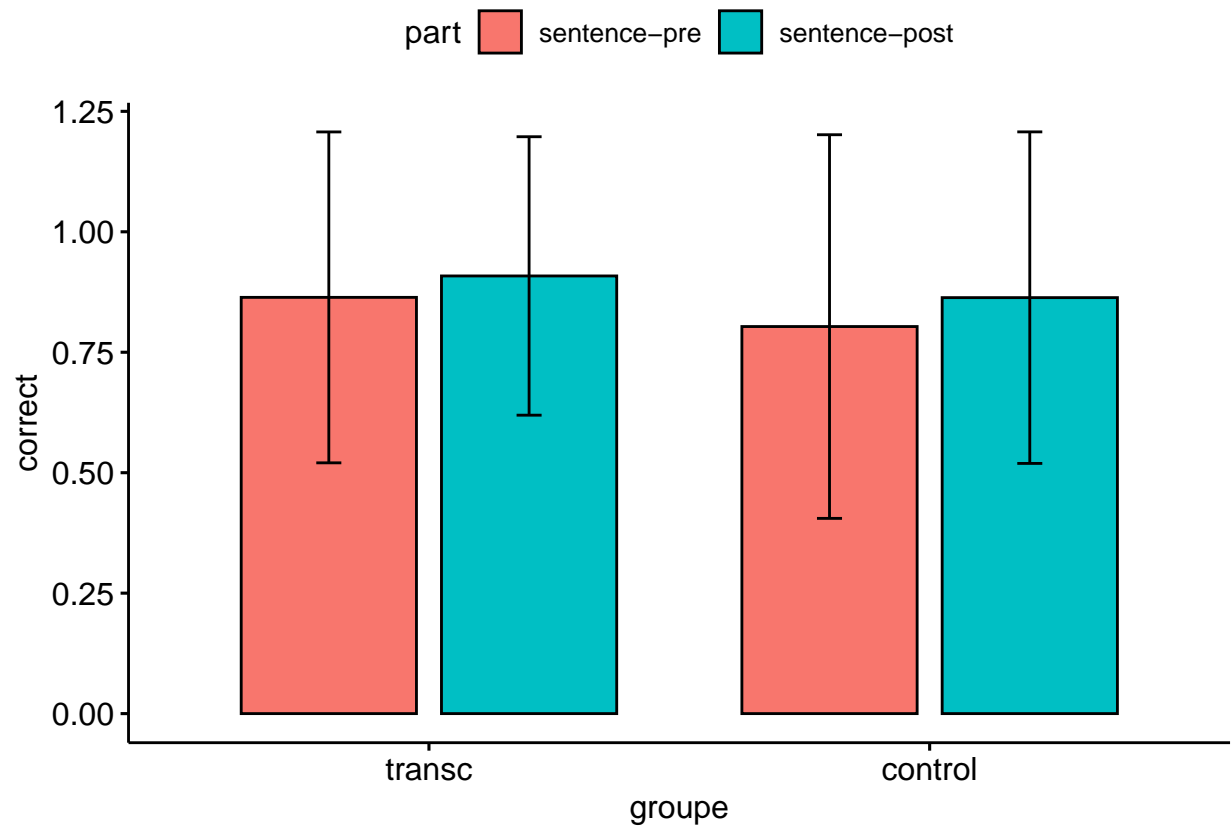
## # A tibble: 4 x 15
##   groupe part variable      n  min  max median  q1  q3  iqr  mad  mean
##   <chr>  <fct>  <chr>    <dbl> <dbl> <dbl>  <dbl> <dbl> <dbl> <dbl> <dbl>
##   <chr>  <fct>  <chr>    <dbl> <dbl> <dbl>  <dbl> <dbl> <dbl> <dbl> <dbl>
```

```
## 1 control sente~ correct 300 0 1 1 1 1 0 0 0.803
## 2 control sente~ correct 300 0 1 1 1 1 0 0 0.863
## 3 transc sente~ correct 360 0 1 1 1 1 0 0 0.864
## 4 transc sente~ correct 360 0 1 1 1 1 0 0 0.908
## # ... with 3 more variables: sd <dbl>, se <dbl>, ci <dbl>
```

```
ggdensity(sent, x = "correct", fill = "part", facet.by = "groupe")
```

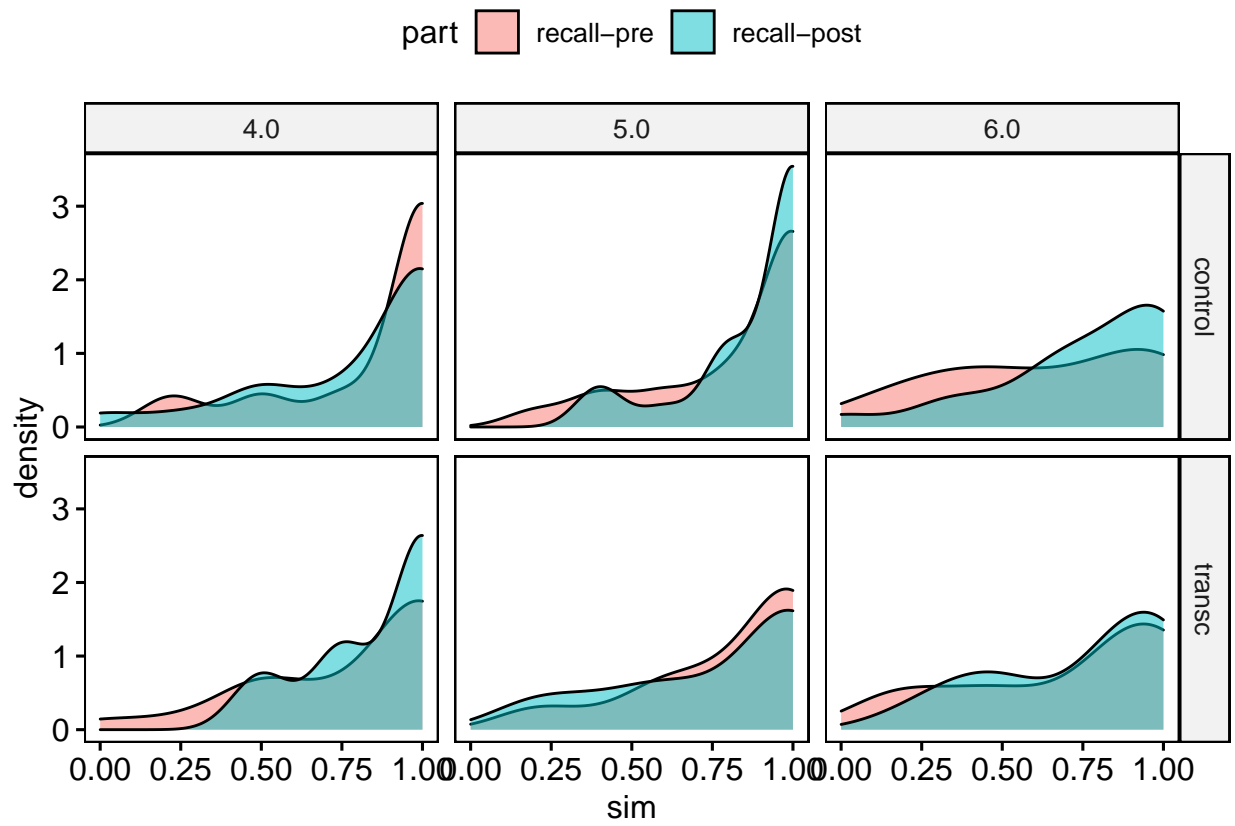


```
ggbarplot(sent, x = "groupe", y = "correct", fill = "part", add = "mean_sd", position = position_dodge())
```

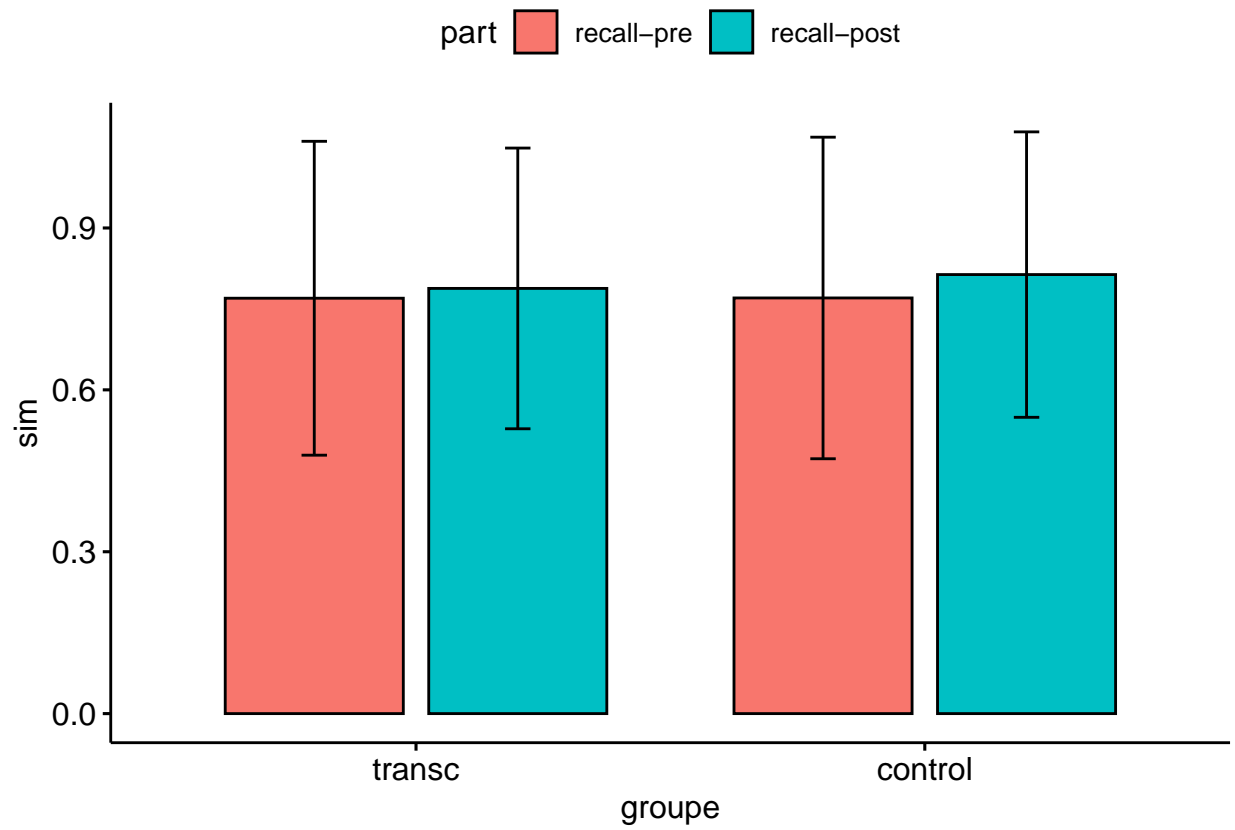


Rappel

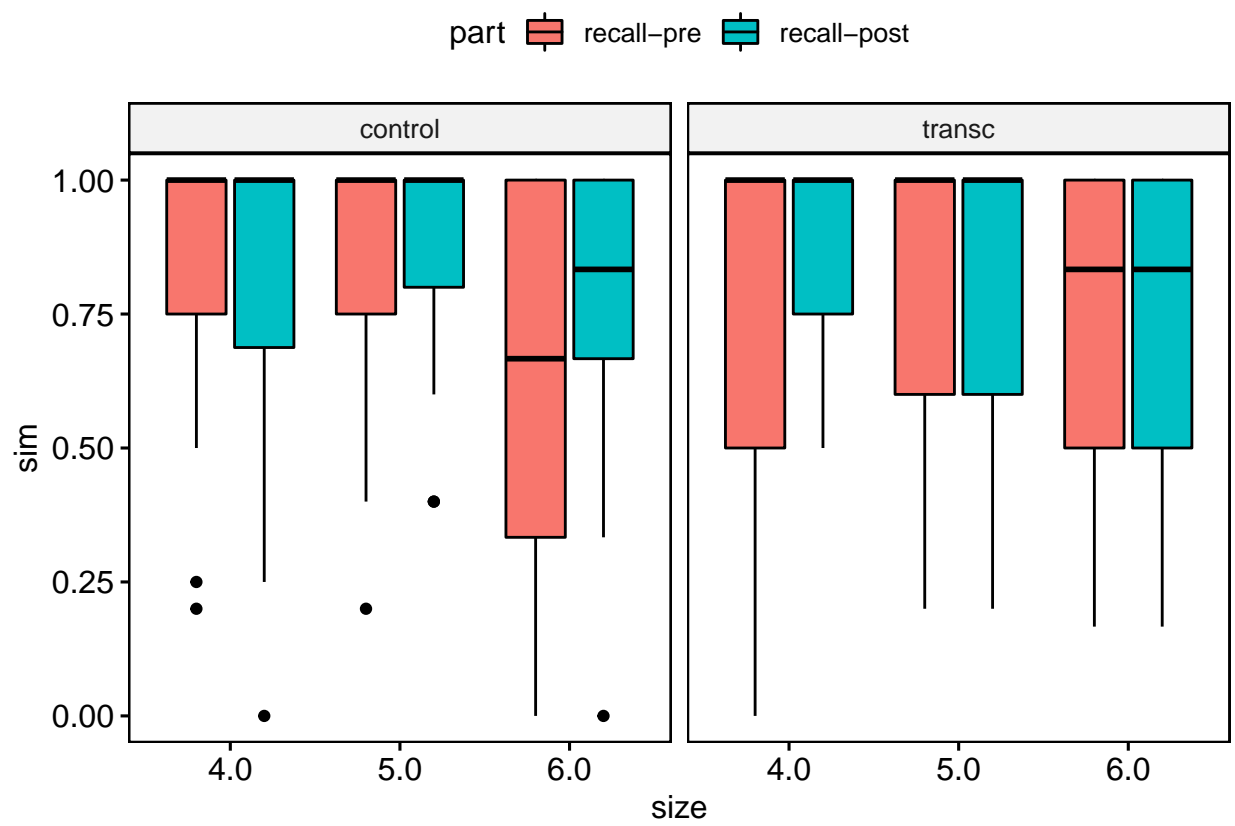
```
ggdensity(recall, x = "sim", fill = "part", facet.by = c("groupe", "size"))
```



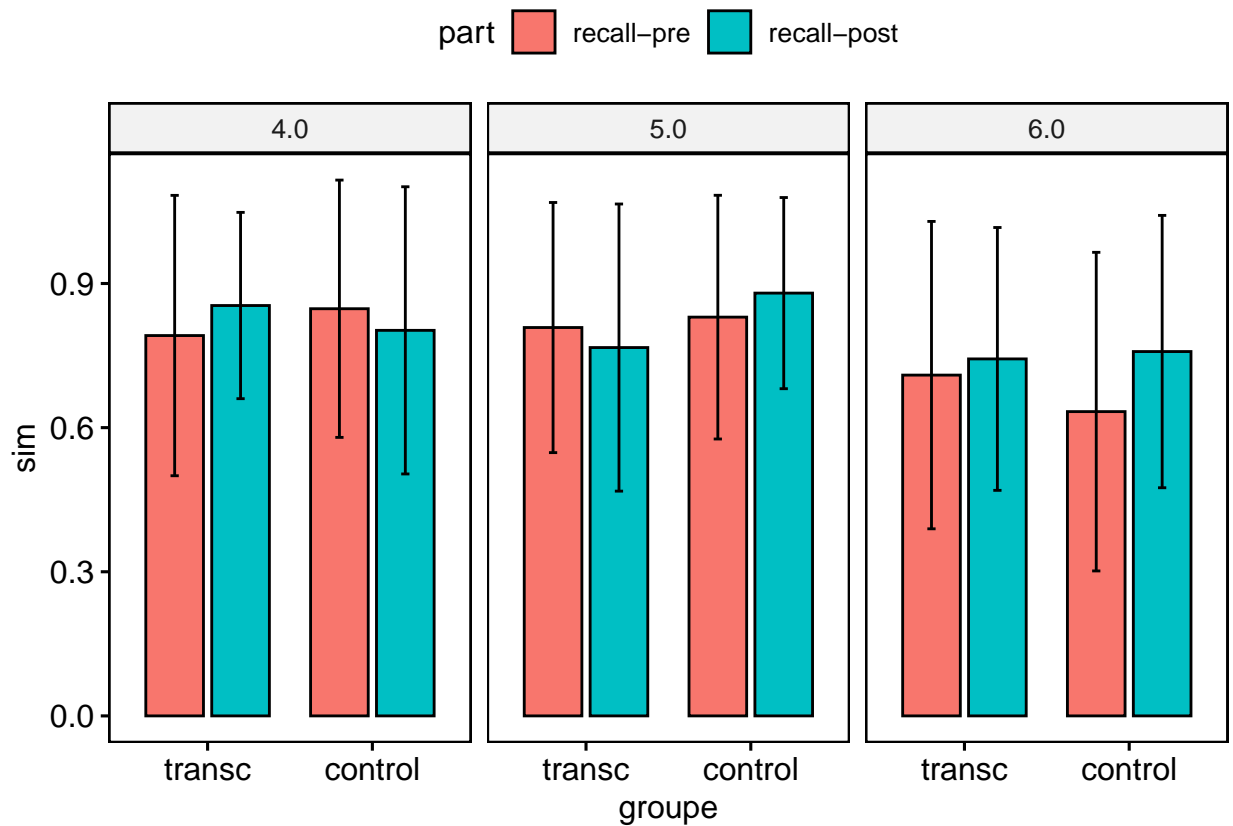
```
ggbarplot(recall, x = "groupe", y = "sim", fill = "part", add = "mean_sd", position = position_dodge(0.8))
```



```
ggboxplot(recall, x = "size", y = "sim", fill = "part", facet.by = "groupe")
```



```
ggbarplot(recall, x = "groupe", y = "sim", fill = "part", add = "mean_sd", position = position_dodge(0.8))
```



```
recall %>%
  group_by(groupe) %>%
  wilcox_test(sim ~ part, paired = T)
```

```
## # A tibble: 2 x 8
##   groupe .y. group1 group2      n1      n2 statistic      p
## * <chr> <chr> <chr> <chr>   <int> <int>   <dbl> <dbl>
## 1 control sim  recall-pre recall-post    60    60     234 0.281
## 2 transc  sim  recall-pre recall-post    72    72     518 0.63
```

```
recall %>%
  group_by(groupe, size) %>%
  wilcox_test(sim ~ part, paired = T)
```

```
## # A tibble: 6 x 9
##   groupe size .y. group1 group2      n1      n2 statistic      p
## * <chr> <fct> <chr> <chr> <chr>   <int> <int>   <dbl> <dbl>
## 1 control 4.0  sim  recall-pre recall-post    20    20      22 0.622
## 2 control 5.0  sim  recall-pre recall-post    20    20       5 0.143
## 3 control 6.0  sim  recall-pre recall-post    20    20    31.5 0.11
## 4 transc 4.0  sim  recall-pre recall-post    24    24     44 0.365
## 5 transc 5.0  sim  recall-pre recall-post    24    24     41 0.503
## 6 transc 6.0  sim  recall-pre recall-post    24    24    80.5 0.571
```