

# Examen blanc WSBIM1207

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## Question A

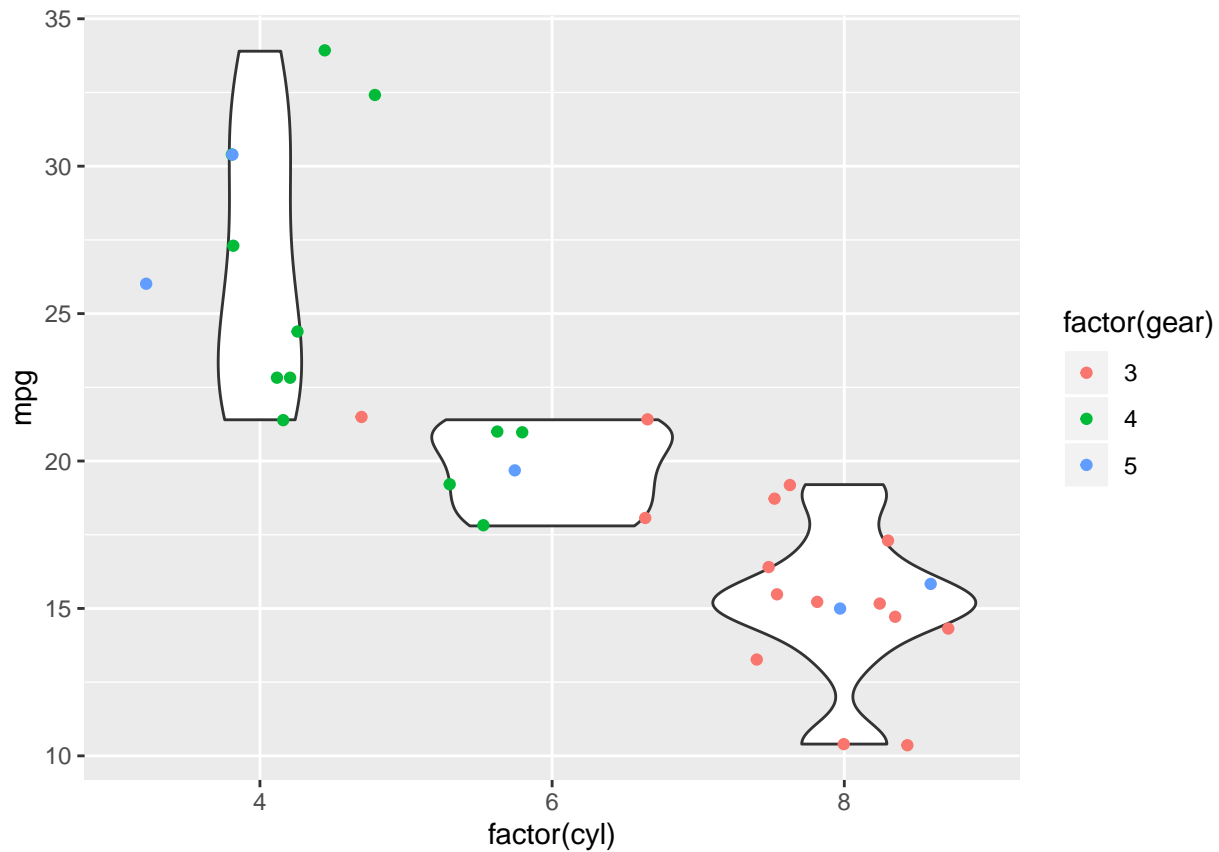
```
library(rWSBIM1207)

##
## This is 'rWSBIM1207' version 0.1.11
rWSBIM1207version()

## [1] '0.1.11'
```

## Question B

```
data(mtcars)
library(tidyverse)
set.seed(1)
ggplot(mtcars,
       aes(x = factor(cyl),
           y = mpg)) +
  geom_violin() +
  geom_jitter(aes(colour = factor(gear)))
```



## Question C

```
sessionInfo()
```

```
## R version 3.6.1 (2019-07-05)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Debian GNU/Linux 9 (stretch)
##
## Matrix products: default
## BLAS/LAPACK: /usr/lib/libopenblas-r0.2.19.so
##
## locale:
##  [1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
##  [3] LC_TIME=en_US.UTF-8      LC_COLLATE=en_US.UTF-8
##  [5] LC_MONETARY=en_US.UTF-8  LC_MESSAGES=C
##  [7] LC_PAPER=en_US.UTF-8     LC_NAME=C
##  [9] LC_ADDRESS=C             LC_TELEPHONE=C
## [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods    base
##
## other attached packages:
##  [1] forcats_0.5.0   stringr_1.4.0   dplyr_0.8.5     purrr_0.3.4
##  [5] readr_1.3.1     tidyr_1.0.3     tibble_3.0.1    ggplot2_3.2.1
```

```
## [9] tidyverse_1.3.0    rWSBIM1207_0.1.11
##
## loaded via a namespace (and not attached):
## [1] tidyselect_1.1.0 xfun_0.13      haven_2.2.0    lattice_0.20-38
## [5] colorspace_1.4-1 vctrs_0.3.0    generics_0.0.2 htmltools_0.4.0
## [9] yaml_2.2.0       rlang_0.4.6    pillar_1.4.4   withr_2.1.2
## [13] glue_1.4.1       DBI_1.1.0      dbplyr_1.4.3   modelr_0.1.7
## [17] readxl_1.3.1     lifecycle_0.2.0 munsell_0.5.0  gtable_0.3.0
## [21] cellranger_1.1.0 rvest_0.3.5    evaluate_0.14  labeling_0.3
## [25] knitr_1.28       fansi_0.4.1    broom_0.5.6    Rcpp_1.0.4.6
## [29] scales_1.1.0     backports_1.1.5 jsonlite_1.6.1 farver_2.0.1
## [33] fs_1.3.1         hms_0.5.3      digest_0.6.25  stringi_1.4.3
## [37] grid_3.6.1       cli_2.0.2      tools_3.6.1    magrittr_1.5
## [41] lazyeval_0.2.2   crayon_1.3.4   pkgconfig_2.0.3 ellipsis_0.3.0
## [45] xml2_1.2.2       reprex_0.3.0    lubridate_1.7.8 assertthat_0.2.1
## [49] rmarkdown_2.1    httr_1.4.1     rstudioapi_0.11 R6_2.4.1
## [53] nlme_3.1-140     compiler_3.6.1
```