Example

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1 R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.
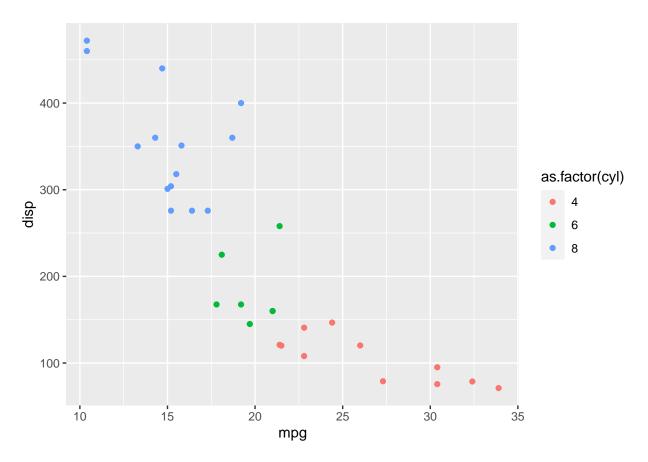
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

2 Including Plots

You can also embed plots, for example:

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

3   Caching

The GHA workflow maintains cached *knitr* results between subsequent runs to reduce runtime. Caching can be enabled by specifying `cache=TRUE` in the code chunk header.

Note that this should be used with caution, as caches may become invalid when code is changed, potentially leading to unsuspected results.

```
## Run with caching enabled
Sys.time()
```

```
## [1] "2023-03-01 11:36:15 UTC"
```

Session info

Session info

```
## [1] "2023-03-01 11:36:15 UTC"
```

```
## - Session info ---------------------------------------------------------------
##   setting  value
##   version  R version 4.1.3 (2022-03-10)
##   os       Ubuntu 22.04.2 LTS
##   system   x86_64, linux-gnu
##   ui       X11
##   language (EN)
##   collate  C.UTF-8
##   ctype    C.UTF-8
##   tz       UTC
##   date     2023-03-01
##   pandoc   2.19.2 @ /usr/bin/ (via rmarkdown)
##
## - Packages -------------------------------------------------------------------
##   ! package    * version date (UTC) lib source
##   P assertthat   0.2.1   2019-03-21 [?] CRAN (R 4.1.3)
##   P BiocManager  1.30.16 2021-06-15 [?] CRAN (R 4.1.3)
##   P bslib        0.3.1   2021-10-06 [?] CRAN (R 4.1.3)
##   P cli          3.2.0   2022-02-14 [?] CRAN (R 4.1.3)
##     codetools    0.2-18  2020-11-04 [2] CRAN (R 4.1.3)
##   P colorspace   2.0-3   2022-02-21 [?] CRAN (R 4.1.3)
##   P crayon       1.5.0   2022-02-14 [?] CRAN (R 4.1.3)
##   P DBI          1.1.1   2021-01-15 [?] CRAN (R 4.1.3)
##   P digest       0.6.29  2021-12-01 [?] CRAN (R 4.1.3)
##   P dplyr        1.0.7   2021-06-18 [?] CRAN (R 4.1.3)
##   P ellipsis     0.3.2   2021-04-29 [?] CRAN (R 4.1.3)
##   P evaluate     0.15    2022-02-18 [?] CRAN (R 4.1.3)
##   P fansi        1.0.2   2022-01-14 [?] CRAN (R 4.1.3)
##   P farver       2.1.0   2021-02-28 [?] CRAN (R 4.1.3)
##   P fastmap      1.1.0   2021-01-25 [?] CRAN (R 4.1.3)
##   P generics     0.1.0   2020-10-31 [?] CRAN (R 4.1.3)
##   P ggplot2    * 3.3.5   2021-06-25 [?] CRAN (R 4.1.3)
##   P glue         1.6.2   2022-02-24 [?] CRAN (R 4.1.3)
##   P gtable       0.3.0   2019-03-25 [?] CRAN (R 4.1.3)
##   P highr        0.9     2021-04-16 [?] CRAN (R 4.1.3)
##   P htmltools    0.5.2   2021-08-25 [?] CRAN (R 4.1.3)
##   P jquerylib    0.1.4   2021-04-26 [?] CRAN (R 4.1.3)
##   P jsonlite     1.8.0   2022-02-22 [?] CRAN (R 4.1.3)
##   P knitr        1.37    2021-12-16 [?] CRAN (R 4.1.3)
##   P labeling     0.4.2   2020-10-20 [?] CRAN (R 4.1.3)
##   P lifecycle    1.0.1   2021-09-24 [?] CRAN (R 4.1.3)
##   P magrittr     2.0.2   2022-01-26 [?] CRAN (R 4.1.3)
##   P munsell      0.5.0   2018-06-12 [?] CRAN (R 4.1.3)
##   P pillar       1.7.0   2022-02-01 [?] CRAN (R 4.1.3)
##   P pkgconfig    2.0.3   2023-03-01 [?] Github (r-lib/pkgconfig@b81ae03)
##   P purrr        0.3.4   2020-04-17 [?] CRAN (R 4.1.3)
##   P R6           2.5.1   2021-08-19 [?] CRAN (R 4.1.3)
##   P renv         0.15.4  2022-03-03 [?] CRAN (R 4.1.3)
##   P rlang        1.0.2   2022-03-04 [?] CRAN (R 4.1.3)
##   P rmarkdown    2.13    2022-03-10 [?] CRAN (R 4.1.3)
##   P sass         0.4.0   2021-05-12 [?] CRAN (R 4.1.3)
##   P scales       1.1.1   2020-05-11 [?] CRAN (R 4.1.3)
##   P sessioninfo  1.2.2   2021-12-06 [?] CRAN (R 4.1.3)
##   P stringi      1.7.6   2021-11-29 [?] CRAN (R 4.1.3)
```

```
##  P stringr      1.4.0   2019-02-10 [?] CRAN (R 4.1.3)
##  P tibble       3.1.6   2021-11-07 [?] CRAN (R 4.1.3)
##  P tidyselect   1.1.1   2021-04-30 [?] CRAN (R 4.1.3)
##  P utf8         1.2.2   2021-07-24 [?] CRAN (R 4.1.3)
##  P vctrs        0.3.8   2021-04-29 [?] CRAN (R 4.1.3)
##  P withr        2.5.0   2022-03-03 [?] CRAN (R 4.1.3)
##  P xfun         0.30    2022-03-02 [?] CRAN (R 4.1.3)
##  P yaml         2.3.5   2022-02-21 [?] CRAN (R 4.1.3)
##
##  [1] /home/runner/work/PDA/PDA/renv/library/R-4.1/x86_64-pc-linux-gnu
##  [2] /opt/R/4.1.3/lib/R/library
##
##  P -- Loaded and on-disk path mismatch.
##
## --------------------------------------------------------------------------------
```