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:
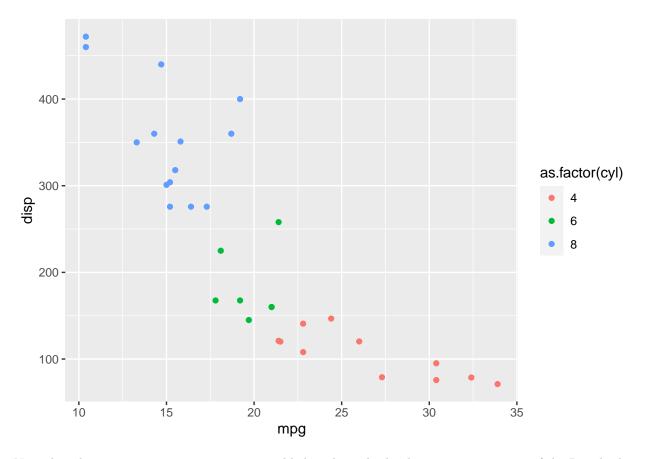
```
summary(cars)
```

```
##      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
```

```
head(cars)
```

```
##   speed dist
## 1     4    2
## 2     4   10
## 3     7    4
## 4     7   22
## 5     8   16
## 6     9   10
```

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] "2022-09-01 13:57:33 UTC"
```

Session info

Session info

```
## [1] "2022-09-01 13:57:33 UTC"
```

```
## - Session info ---------------------------------------------------------------
##   setting  value
##   version  R version 4.1.3 (2022-03-10)
##   os       Ubuntu 20.04.4 LTS
##   system   x86_64, linux-gnu
##   ui       X11
##   language (EN)
##   collate  C.UTF-8
##   ctype    C.UTF-8
##   tz       UTC
##   date     2022-09-01
##   pandoc   2.14.2 @ /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   1.30.18 2022-05-18 [?] CRAN (R 4.1.3)
##   P bslib         0.4.0   2022-07-16 [?] CRAN (R 4.1.3)
##   P cachem        1.0.6   2021-08-19 [?] CRAN (R 4.1.3)
##   P cli           3.3.0   2022-04-25 [?] 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 DBI           1.1.2   2021-12-20 [?] CRAN (R 4.1.3)
##   P digest        0.6.29  2021-12-01 [?] CRAN (R 4.1.3)
##   P dplyr         1.0.10  2022-09-01 [?] CRAN (R 4.1.3)
##   P evaluate      0.16    2022-08-09 [?] CRAN (R 4.1.3)
##   P fansi         1.0.3   2022-03-24 [?] CRAN (R 4.1.3)
##   P farver        2.1.1   2022-07-06 [?] CRAN (R 4.1.3)
##   P fastmap       1.1.0   2021-01-25 [?] CRAN (R 4.1.3)
##   P generics      0.1.3   2022-07-05 [?] CRAN (R 4.1.3)
##   P ggplot2     * 3.3.6   2022-05-03 [?] CRAN (R 4.1.3)
##   P glue          1.6.2   2022-02-24 [?] CRAN (R 4.1.3)
##   P gtable        0.3.1   2022-09-01 [?] CRAN (R 4.1.3)
##   P highr         0.9     2021-04-16 [?] CRAN (R 4.1.3)
##   P htmltools     0.5.3   2022-07-18 [?] 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         1.40    2022-08-24 [?] 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      2.0.3   2022-03-30 [?] CRAN (R 4.1.3)
##   P munsell       0.5.0   2018-06-12 [?] CRAN (R 4.1.3)
##   P pillar        1.8.1   2022-08-19 [?] CRAN (R 4.1.3)
##   P pkgconfig     2.0.3   2019-09-22 [?] CRAN (R 4.1.3)
##   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         1.0.5   2022-08-31 [?] CRAN (R 4.1.3)
##   P rmarkdown     2.16    2022-08-24 [?] CRAN (R 4.1.3)
##   P sass          0.4.2   2022-07-16 [?] CRAN (R 4.1.3)
##   P scales        1.2.1   2022-08-20 [?] 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       1.4.1   2022-08-20 [?] CRAN (R 4.1.3)
```

```
## P tibble        3.1.8   2022-07-22 [?] CRAN (R 4.1.3)
## P tidyselect    1.1.2   2022-02-21 [?] CRAN (R 4.1.3)
## P utf8          1.2.2   2021-07-24 [?] CRAN (R 4.1.3)
## P vctrs         0.4.1   2022-04-13 [?] CRAN (R 4.1.3)
## P withr         2.5.0   2022-03-03 [?] CRAN (R 4.1.3)
## P xfun          0.32    2022-08-10 [?] CRAN (R 4.1.3)
## P yaml          2.3.5   2022-02-21 [?] CRAN (R 4.1.3)
##
## [1] /home/runner/work/PDAEuroBioc22/PDAEuroBioc22/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.
##
## ------------------------------------------------------------------------------
```