

# 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 14:39:31 UTC"
```

### Session info

Session info

```
## [1] "2022-09-01 14:39:31 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)
## P 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.
##
## -----
```