

Quarto Word Example

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Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Bullets

When you click the **Render** button a document will be generated that includes:

- Content authored with markdown
- Output from executable code

Code and Output in Word Document

```
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

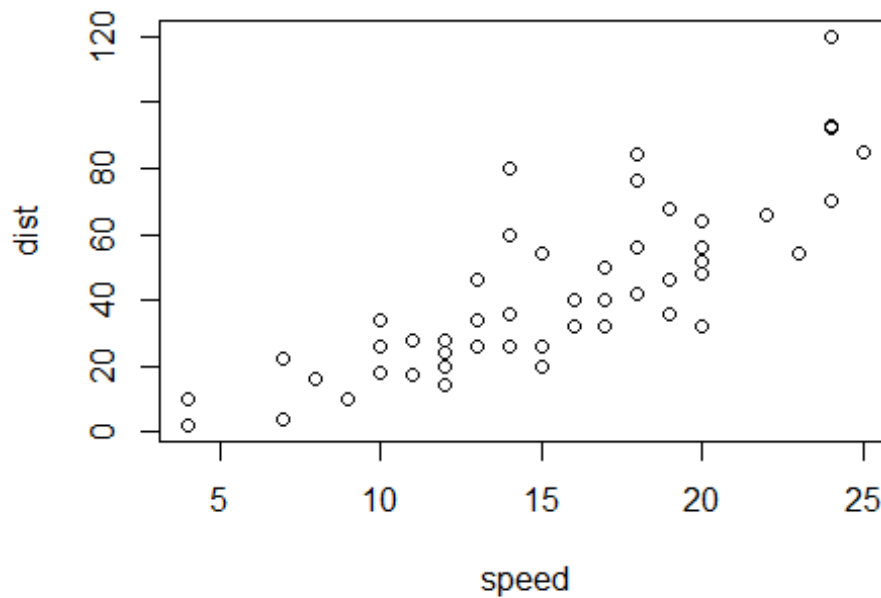
In-line code Example

The following text includes in-line code. A linear model is created and saved in the R chunk, and then components of that model output used in the sentence that follows.

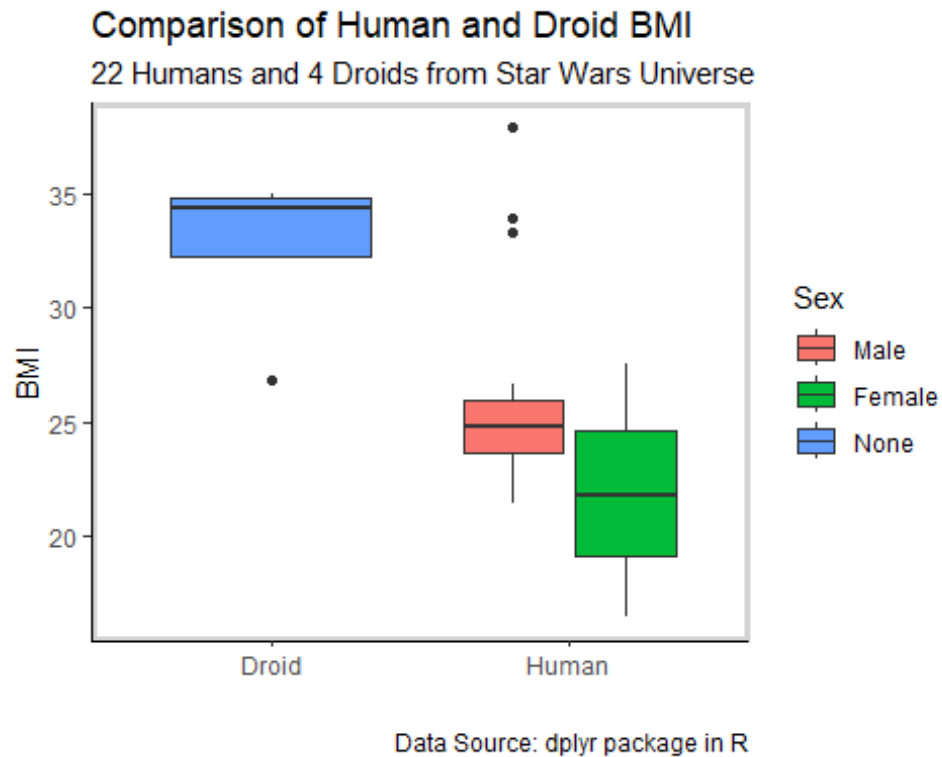
```
cmod <- lm(dist ~ speed, data = cars)
scmod <- summary(cmod)
intercept <- round(cmod$coefficients[1],2)
slope <- round(cmod$coefficients[2],2)
```

Based on the available data in the base R software (R Core team, 2022), stopping distance in feet for cars in the 1920s was estimated as $-17.58 + 3.93 \times \text{speed (mpg)}$, and the R^2 for this linear model is 0.65.

Basic Plot



Star Wars Plot from Week 1



gt Tables

- Tables created from the exact same code will appear differently in different output formats.
- Note that these are the large and small gt tables of stock data shown in the Week 13 slides.

First we present the full table and note that the Quarto automatically numbers the tables.

Table 1: S&P 500

Last Day of Each Month in 2022

Date	Open	High	Low	Close	Adjusted
Mon, Jan 31, 2022	\$4,431.79	\$4,516.89	\$4,414.02	\$4,515.55	\$4,515.55
Mon, Feb 28, 2022	\$4,354.17	\$4,388.84	\$4,315.12	\$4,373.94	\$4,373.94
Thu, Mar 31, 2022	\$4,599.02	\$4,603.07	\$4,530.41	\$4,530.41	\$4,530.41
Fri, Apr 29, 2022	\$4,253.75	\$4,269.68	\$4,124.28	\$4,131.93	\$4,131.93
Tue, May 31, 2022	\$4,151.09	\$4,168.34	\$4,104.88	\$4,132.15	\$4,132.15
Thu, Jun 30, 2022	\$3,785.99	\$3,818.99	\$3,738.67	\$3,785.38	\$3,785.38
Fri, Jul 29, 2022	\$4,087.33	\$4,140.15	\$4,079.22	\$4,130.29	\$4,130.29
Wed, Aug 31, 2022	\$4,000.67	\$4,015.37	\$3,954.53	\$3,955.00	\$3,955.00
Fri, Sep 30, 2022	\$3,633.48	\$3,671.44	\$3,584.13	\$3,585.62	\$3,585.62
Mon, Oct 31, 2022	\$3,881.85	\$3,893.73	\$3,863.18	\$3,871.98	\$3,871.98

Data Source: <https://finance.yahoo.com>

Symbol: ^GSPC

There is does not appear to be page break feature yet, but we can use
 to add spaces.

As mentioned in the Week 13 slides, we can also show an edited version of this table.

Table 2: S&P 500

2022 - Last Day of Each Month

Date	High	Adjusted
Jan 31, 2022	\$4,516.89	\$4,515.55
Feb 28, 2022	\$4,388.84	\$4,373.94
Mar 31, 2022	\$4,603.07	\$4,530.41
Apr 29, 2022	\$4,269.68	\$4,131.93
May 31, 2022	\$4,168.34	\$4,132.15
Jun 30, 2022	\$3,818.99	\$3,785.38
Jul 29, 2022	\$4,140.15	\$4,130.29
Aug 31, 2022	\$4,015.37	\$3,955.00
Sep 30, 2022	\$3,671.44	\$3,585.62
Oct 31, 2022	\$3,893.73	\$3,871.98

Source: <https://finance.yahoo.com>

Symbol: ^GSPC

Citations

Note that the citations below were copied without editing from part of the R console output. If you are creating your memos in RStudio (not required), these citations are already formatted for you.

Dancho M, Vaughan D (2022). *tidyquant: Tidy Quantitative Financial Analysis*. R package version 1.0.5, <https://CRAN.R-project.org/package=tidyquant>.

Iannone R, Cheng J, Schloerke B, Hughes E, Seo J (2022). *gt: Easily Create Presentation-Ready Display Tables*. R package version 0.8.0, <https://CRAN.R-project.org/package=gt>.

R Core Team (2022). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL <https://www.R-project.org/>.

Rinker, T. W. & Kurkiewicz, D. (2017). *pacman: Package Management for R*. version 0.5.0. Buffalo, New York. <http://github.com/trinker/pacman>

RStudio Team (2022). RStudio: Integrated Development Environment for R. RStudio, PBC, Boston, MA URL <http://www.rstudio.com/>.

Wickham H, Averick M, Bryan J, Chang W, McGowan LD, François R, Golem G, Haye A, Heston L, Hester J, Kuhn M, Pedersen TL, Milne E, Bach SM, Müller K, Ooms J, Robins J, Seaman DP, Spinney V, Takahashi K, Vaughan D, Wilke C, Woloshin S, Yutani H (2019). "Welcome to the tidyverse." *Journal of Open Source Software*, 4(43), 1686. doi:10.21105/joss.01686
<https://doi.org/10.21105/joss.01686>.