

Untitled

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9/28/2023

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
```

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.

R Markown commands

Italic text

Bold text

Haeder one

Header two

Header three

R Markdown

“A quote”

- List item 1
- List item 2

1. Ordered list item 1

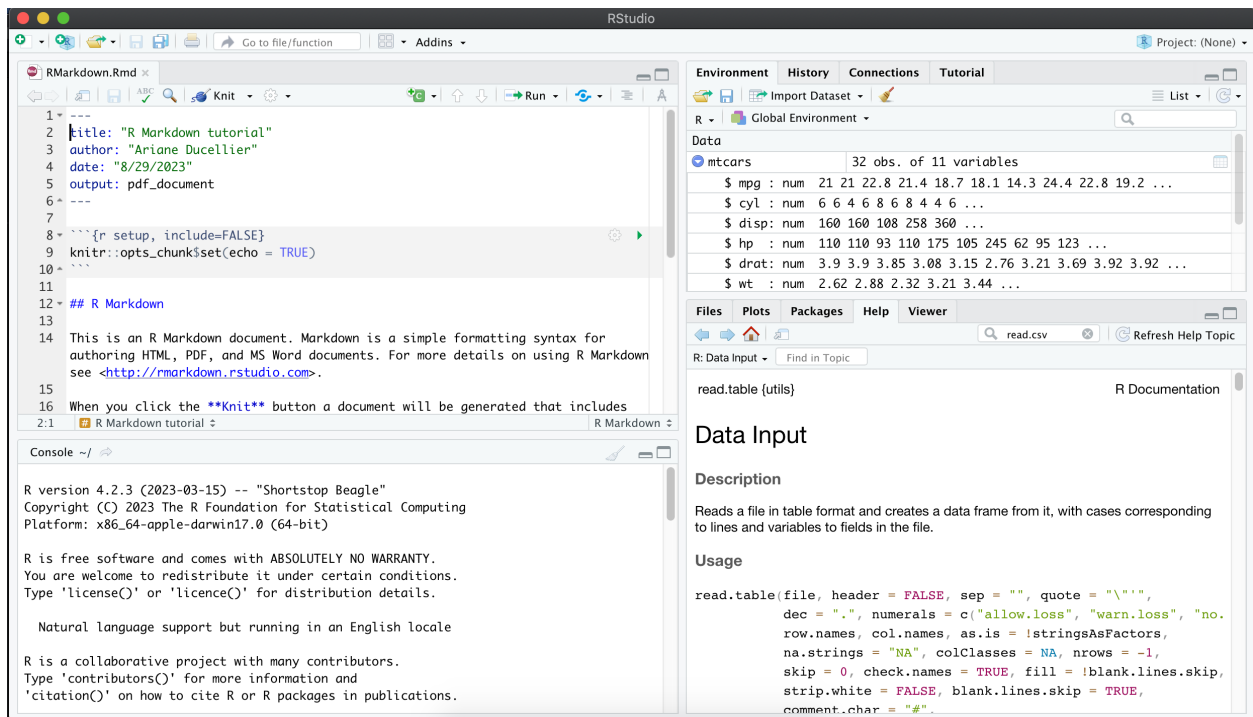


Figure 1: RStudio interface

2. Ordered list item 2

Line followed by two spaces

Line 2

$$x = \frac{y}{z}$$

```
x <- 2 + 4
```

The results is x = 6.

```
mtcars
```

```
##           mpg  cyl  disp  hp drat   wt  qsec vs  am gear carb
## Mazda RX4      21.0    6 160.0 110 3.90 2.620 16.46 0  1    4    4
## Mazda RX4 Wag  21.0    6 160.0 110 3.90 2.875 17.02 0  1    4    4
## Datsun 710      22.8    4 108.0  93 3.85 2.320 18.61 1  1    4    1
## Hornet 4 Drive  21.4    6 258.0 110 3.08 3.215 19.44 1  0    3    1
## Hornet Sportabout 18.7    8 360.0 175 3.15 3.440 17.02 0  0    3    2
## Valiant         18.1    6 225.0 105 2.76 3.460 20.22 1  0    3    1
## Duster 360      14.3    8 360.0 245 3.21 3.570 15.84 0  0    3    4
## Merc 240D        24.4    4 146.7  62 3.69 3.190 20.00 1  0    4    2
## Merc 230         22.8    4 140.8  95 3.92 3.150 22.90 1  0    4    2
## Merc 280         19.2    6 167.6 123 3.92 3.440 18.30 1  0    4    4
## Merc 280C        17.8    6 167.6 123 3.92 3.440 18.90 1  0    4    4
## Merc 450SE       16.4    8 275.8 180 3.07 4.070 17.40 0  0    3    3
## Merc 450SL       17.3    8 275.8 180 3.07 3.730 17.60 0  0    3    3
```

```
## Merc 450SLC      15.2   8 275.8 180 3.07 3.780 18.00  0  0   3   3
## Cadillac Fleetwood 10.4   8 472.0 205 2.93 5.250 17.98  0  0   3   4
## Lincoln Continental 10.4   8 460.0 215 3.00 5.424 17.82  0  0   3   4
## Chrysler Imperial 14.7   8 440.0 230 3.23 5.345 17.42  0  0   3   4
## Fiat 128         32.4   4  78.7  66 4.08 2.200 19.47  1  1   4   1
## Honda Civic      30.4   4  75.7  52 4.93 1.615 18.52  1  1   4   2
## Toyota Corolla   33.9   4  71.1  65 4.22 1.835 19.90  1  1   4   1
## Toyota Corona    21.5   4 120.1  97 3.70 2.465 20.01  1  0   3   1
## Dodge Challenger 15.5   8 318.0 150 2.76 3.520 16.87  0  0   3   2
## AMC Javelin      15.2   8 304.0 150 3.15 3.435 17.30  0  0   3   2
## Camaro Z28       13.3   8 350.0 245 3.73 3.840 15.41  0  0   3   4
## Pontiac Firebird 19.2   8 400.0 175 3.08 3.845 17.05  0  0   3   2
## Fiat X1-9        27.3   4  79.0  66 4.08 1.935 18.90  1  1   4   1
## Porsche 914-2    26.0   4 120.3  91 4.43 2.140 16.70  0  1   5   2
## Lotus Europa     30.4   4  95.1 113 3.77 1.513 16.90  1  1   5   2
## Ford Pantera L   15.8   8 351.0 264 4.22 3.170 14.50  0  1   5   4
## Ferrari Dino     19.7   6 145.0 175 3.62 2.770 15.50  0  1   5   6
## Maserati Bora    15.0   8 301.0 335 3.54 3.570 14.60  0  1   5   8
## Volvo 142E       21.4   4 121.0 109 4.11 2.780 18.60  1  1   4   2
```

```
library(knitr)
kable(mtcars[1:5], caption="A knitr table")
```

Table 1: A knitr table

	mpg	cyl	disp	hp	drat
Mazda RX4	21.0	6	160.0	110	3.90
Mazda RX4 Wag	21.0	6	160.0	110	3.90
Datsun 710	22.8	4	108.0	93	3.85
Hornet 4 Drive	21.4	6	258.0	110	3.08
Hornet Sportabout	18.7	8	360.0	175	3.15
Valiant	18.1	6	225.0	105	2.76
Duster 360	14.3	8	360.0	245	3.21
Merc 240D	24.4	4	146.7	62	3.69
Merc 230	22.8	4	140.8	95	3.92
Merc 280	19.2	6	167.6	123	3.92
Merc 280C	17.8	6	167.6	123	3.92
Merc 450SE	16.4	8	275.8	180	3.07
Merc 450SL	17.3	8	275.8	180	3.07
Merc 450SLC	15.2	8	275.8	180	3.07
Cadillac Fleetwood	10.4	8	472.0	205	2.93
Lincoln Continental	10.4	8	460.0	215	3.00
Chrysler Imperial	14.7	8	440.0	230	3.23
Fiat 128	32.4	4	78.7	66	4.08
Honda Civic	30.4	4	75.7	52	4.93
Toyota Corolla	33.9	4	71.1	65	4.22
Toyota Corona	21.5	4	120.1	97	3.70
Dodge Challenger	15.5	8	318.0	150	2.76
AMC Javelin	15.2	8	304.0	150	3.15
Camaro Z28	13.3	8	350.0	245	3.73
Pontiac Firebird	19.2	8	400.0	175	3.08
Fiat X1-9	27.3	4	79.0	66	4.08
Porsche 914-2	26.0	4	120.3	91	4.43

	mpg	cyl	disp	hp	drat
Lotus Europa	30.4	4	95.1	113	3.77
Ford Pantera L	15.8	8	351.0	264	4.22
Ferrari Dino	19.7	6	145.0	175	3.62
Maserati Bora	15.0	8	301.0	335	3.54
Volvo 142E	21.4	4	121.0	109	4.11