

# A TITLE EXAMPLE

Just an example of a subtitle that can be a bit longer

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# 1 Introduction

This document aims at demonstrating the capabilities of Quarto's document automation. The document is based on the [Setif](#) template.

## 2 Code blocks using R

### 2.1 Tables

```
mtcars |>  
  knitr::kable()
```

Table 1: mtcars R dataset

	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

TODO: long tables does not repeat header and the bottom is crushed

```
quakes |>  
  knitr::kable()
```

Table 2: dataset JohnsonJohnson

lat	long	depth	mag	stations
-20.42	181.62	562	4.8	41
-20.62	181.03	650	4.2	15
-26.00	184.10	42	5.4	43
-17.97	181.66	626	4.1	19
-20.42	181.96	649	4.0	11
-19.68	184.31	195	4.0	12
-11.70	166.10	82	4.8	43
-28.11	181.93	194	4.4	15
-28.74	181.74	211	4.7	35
-17.47	179.59	622	4.3	19
-21.44	180.69	583	4.4	13
-12.26	167.00	249	4.6	16
-18.54	182.11	554	4.4	19
-21.00	181.66	600	4.4	10
-20.70	169.92	139	6.1	94
-15.94	184.95	306	4.3	11
-13.64	165.96	50	6.0	83
-17.83	181.50	590	4.5	21
-23.50	179.78	570	4.4	13
-22.63	180.31	598	4.4	18
-20.84	181.16	576	4.5	17
-10.98	166.32	211	4.2	12
-23.30	180.16	512	4.4	18
-30.20	182.00	125	4.7	22
-19.66	180.28	431	5.4	57
-17.94	181.49	537	4.0	15
-14.72	167.51	155	4.6	18
-16.46	180.79	498	5.2	79
-20.97	181.47	582	4.5	25
-19.84	182.37	328	4.4	17
-22.58	179.24	553	4.6	21
-16.32	166.74	50	4.7	30
-15.55	185.05	292	4.8	42
-23.55	180.80	349	4.0	10
-20.00	180.00	0.00	0.0	100

## 2.2 Raw outputs

```
glm <- glm(mpg ~ disp, data = mtcars)
glm
```

```
Call: glm(formula = mpg ~ disp, data = mtcars)
```

```
Coefficients:
```

(Intercept)	disp
29.59985	-0.04122

```
Degrees of Freedom: 31 Total (i.e. Null); 30 Residual
```

```
Null Deviance: 1126
```

```
Residual Deviance: 317.2 AIC: 170.2
```



## 2.3 Plots

```
glm <- lm(mpg ~ disp, data = mtcars)
plot(mpg ~ disp, data = mtcars) # add general linear model dashed line
abline(glm, col = "blue", lty = 2)
```

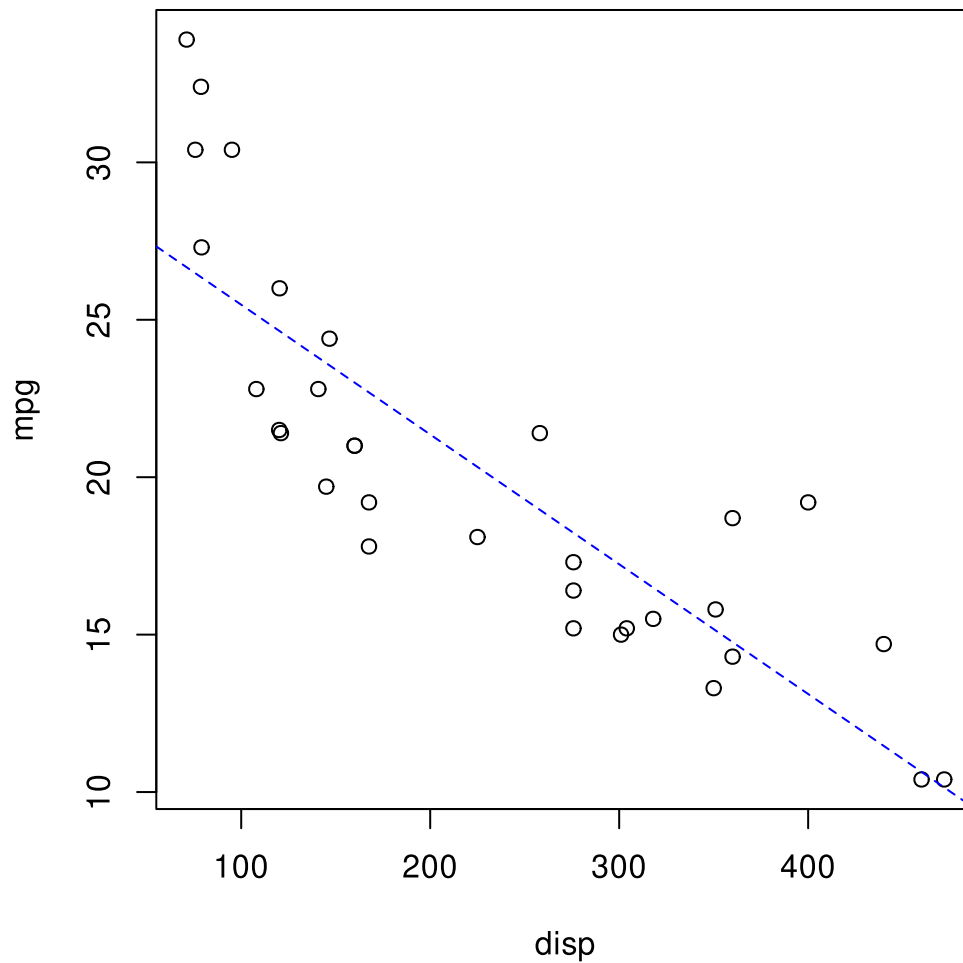


Figure 1: The figure describes the relationship between displacement and miles per gallon based on the mtcars dataset

## 3 Cross ref and refs

### 3.1 Cross references

The code block presented in [Section 2.1](#) uses R to generate a table. The `mtcars` dataset is shown in [Table 1](#).

## 4 Inline code blocks for automatic reporting

Here we can present an example of an inline code block. This is very useful for automatic reporting as we can use variables to include them directly in the text. For instance, the mean mpg of cars is shown 20.090625 (i.e. the previous number was generated using the `mean()` function from the base package).



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