

# R Markdown v2 Demo

Li Lei      Han Meimei

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# 1 Start with a cool section

A bit *introduction* here.

You can use traditional **Markdown** syntax, such as links and code.

# 2 Followed by another section

Of course you can write lists:

- apple
- pear
- banana

Or ordered lists:

1. items
2. will
3. be
4. ordered
  - nested
  - items

# 3 More sections

## 3.1 Hi

hi hi

## 3.2 Hello

hello hello

## 3.3 Howdy

howdy howdy

## 4 Okay, some R code

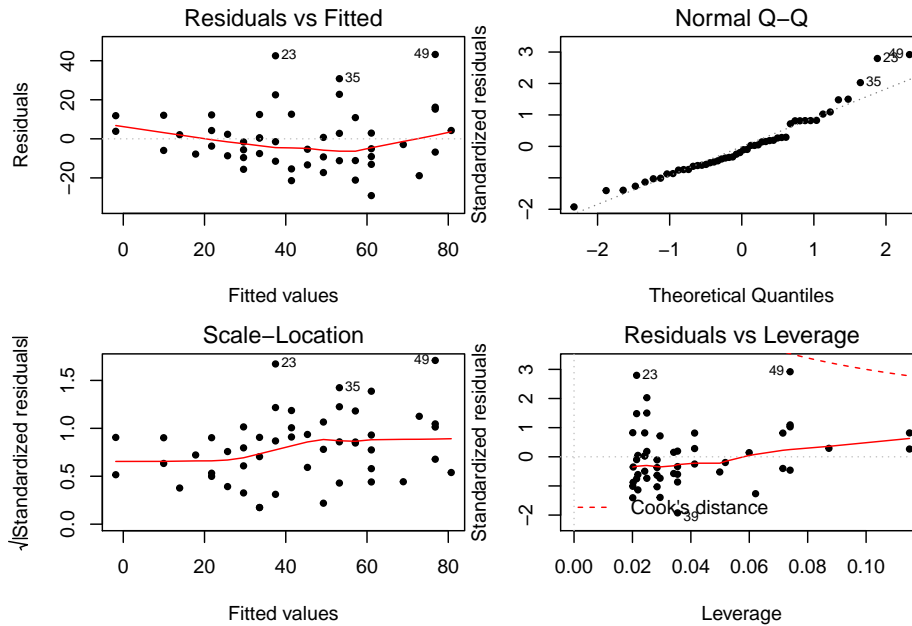
```
fit = lm(dist ~ speed, data = cars)
b = coef(fit) # coefficients
summary(fit)

##
## Call:
## lm(formula = dist ~ speed, data = cars)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -29.069  -9.525  -2.272   9.215  43.201
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -17.5791     6.7584  -2.601  0.0123 *
## speed         3.9324     0.4155   9.464 1.49e-12 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 15.38 on 48 degrees of freedom
## Multiple R-squared:  0.6511, Adjusted R-squared:  0.6438
## F-statistic: 89.57 on 1 and 48 DF,  p-value: 1.49e-12
```

The code will be highlighted in all output formats.

## 5 And some pictures

```
par(mfrow = c(2, 2), pch = 20, mar = c(4, 4, 2, .1),
    bg = 'white')
plot(fit)
```



## 6 A little bit math

Our regression equation is  $Y = -17.5790949 + 3.9324088x$ , and the model is:

$$Y = \beta_0 + \beta_1 x + \epsilon$$

## 7 Pandoc extension: definition lists

**Programmer** A programmer is the one who turns coffee into code.

**LaTeX** A simple language with a couple of backslashes.

## 8 Pandoc extension: examples

We have some examples.

- (1) Think what is  $0.3 + 0.4 - 0.7$ . Zero. Easy.
- (2) Now think what is  $0.3 - 0.7 + 0.4$ . Still zero?

People are often surprised by (2).

## 9 Pandoc extension: tables

A table here.

Table: Demonstration of simple table syntax.

---

		as.factor(vs)							
		0				1			
as.factor(am)		min	mean	median	max	min	mean	median	max
0	mpg	10.4	15.05	15.20	19.2	17.8	20.74	21.4	24.4
	hp	150.0	194.17	180.00	245.0	62.0	102.14	105.0	123.0
1	mpg	15.0	19.75	20.35	26.0	21.4	28.37	30.4	33.9
	hp	91.0	180.83	142.50	335.0	52.0	80.57	66.0	113.0

---

## 10 Pandoc extension: footnotes

We can also write footnotes<sup>1</sup>.

Or write some inline footnotes<sup>2</sup>.

## 11 Pandoc extension: citations

We compile the R Markdown file to Markdown through **knitr** (Xie 2015) in R (R Core Team 2015). For more about Xie (2015), see <http://yihui.name/knitr>.

## References

R Core Team. 2015. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. <https://www.R-project.org/>.

Xie, Yihui. 2015. *Knitr: A General-Purpose Package for Dynamic Report Generation in R*. <http://CRAN.R-project.org/package=knitr>.

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<sup>1</sup>hi, I'm a footnote

<sup>2</sup>as you can see here