

# Testing R Markdown Formats

DS-SL

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Test File of R Markdown

# R Notebook

This is an R Markdown file 'test-rmarkdown.Rmd' with various output formats, created using 'RNotebook\_Template.Rmd'. When you execute or run a code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button, a triangle pointing right, within the chunk or by placing your cursor inside it and pressing *Ctrl+Shift+Enter* (Win) or *Cmd+Shift+Enter* (Mac).

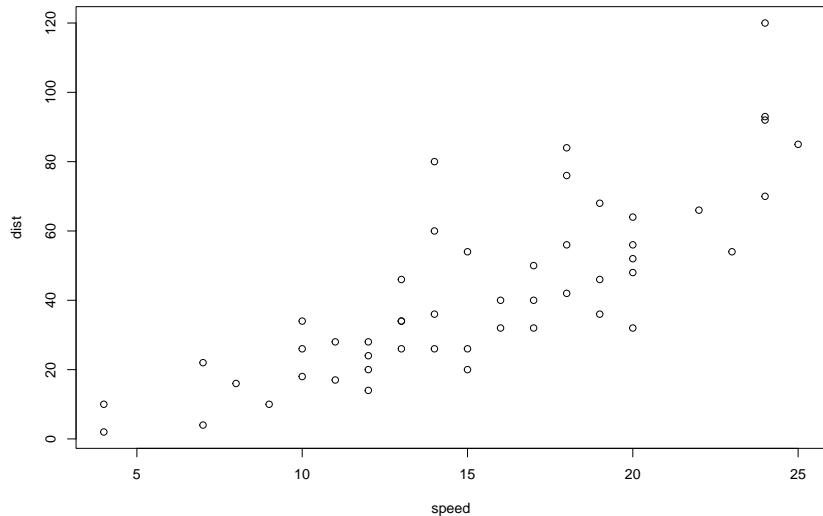
## Test Code Chunk (1)

```
head(cars)
```

```
##      speed dist
## 1         4     2
## 2         4    10
## 3         7     4
## 4         7    22
## 5         8    16
## 6         9    10
```

## Test Code Chunk (2)

```
plot(cars)
```



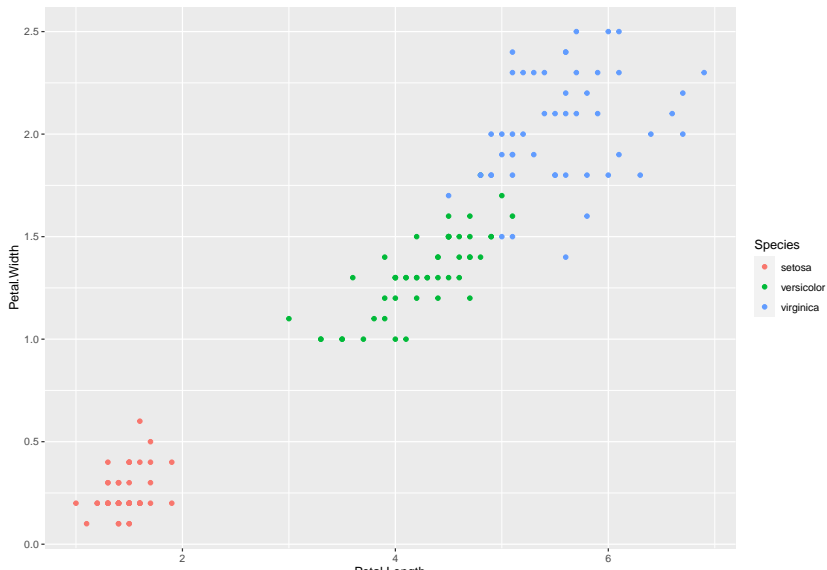
## Test Code Chunk (3)

```
knitr::kable(iris[1:6, ])
```

| Sepal.Length | Sepal.Width | Petal.Length | Petal.Width | Species |
|--------------|-------------|--------------|-------------|---------|
| 5.1          | 3.5         | 1.4          | 0.2         | setosa  |
| 4.9          | 3.0         | 1.4          | 0.2         | setosa  |
| 4.7          | 3.2         | 1.3          | 0.2         | setosa  |
| 4.6          | 3.1         | 1.5          | 0.2         | setosa  |
| 5.0          | 3.6         | 1.4          | 0.2         | setosa  |
| 5.4          | 3.9         | 1.7          | 0.4         | setosa  |

## Test Code Chunk (4)

```
ggplot(iris, aes(x = Petal.Length, y = Petal.Width, col = Species))  
  geom_point()
```



## New Code Chunk

Add a new chunk by clicking the *Insert Chunk* button on the toolbar or by pressing *Ctrl+Option+I* (Win) or *Cmd+Option+I* (Mac).

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the *Preview* button or press *Ctrl+Shift+K* (Win) or *Cmd+Shift+K* (Mac) to preview the HTML file).



The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike *Knit*, *Preview* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.

# YAML for R Notebook

There are three lines of options in the top YAML. If you delete `#`, the line becomes active.

- ▶ `number_sections: yes` `#` for automatic numbering of sections
- ▶ `toc: true` `#` for table of contents
- ▶ `toc_float: true` `#` for floating table of contents

# YAML for Various Output Formats

```
output:
  html_notebook:
    number_sections: yes
  html_document:
    df_print: paged
    number_sections: yes
  word_document:
    number_sections: yes
  pdf_document:
    number_sections: yes
  powerpoint_presentation: default
  ioslides_presentation:
    widescreen: yes
    smaller: yes
  slidy_presentation: default
  beamer_presentation: default
```

Note

# Comments on Presentation Formats

- ▶ For slides, a new slide starts at ##, the second-level heading.
- ▶ --- is page break for presentation formats.
- ▶ For Word and Powerpoint, you can add your template. See the documents in References

# References

- ▶ Posit Primers: Report Reproducibly
- ▶ Markdown Quick Reference: Top Menu Bar > Help > Markdown Quick Reference
- ▶ Cheat Sheet (Top Menu Bar: Help > Cheat Sheets): RMarkdown Cheat Sheet, RMarkdown Reference Guide
- ▶ Books:
  - ▶ R Markdown: The Definitive Guide
  - ▶ R Markdown Cookbook
- ▶ Post error messages to a web search engine.