

Testing R Markdown Formats

DS-SL

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1 Test File of R Markdown

1.1 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).

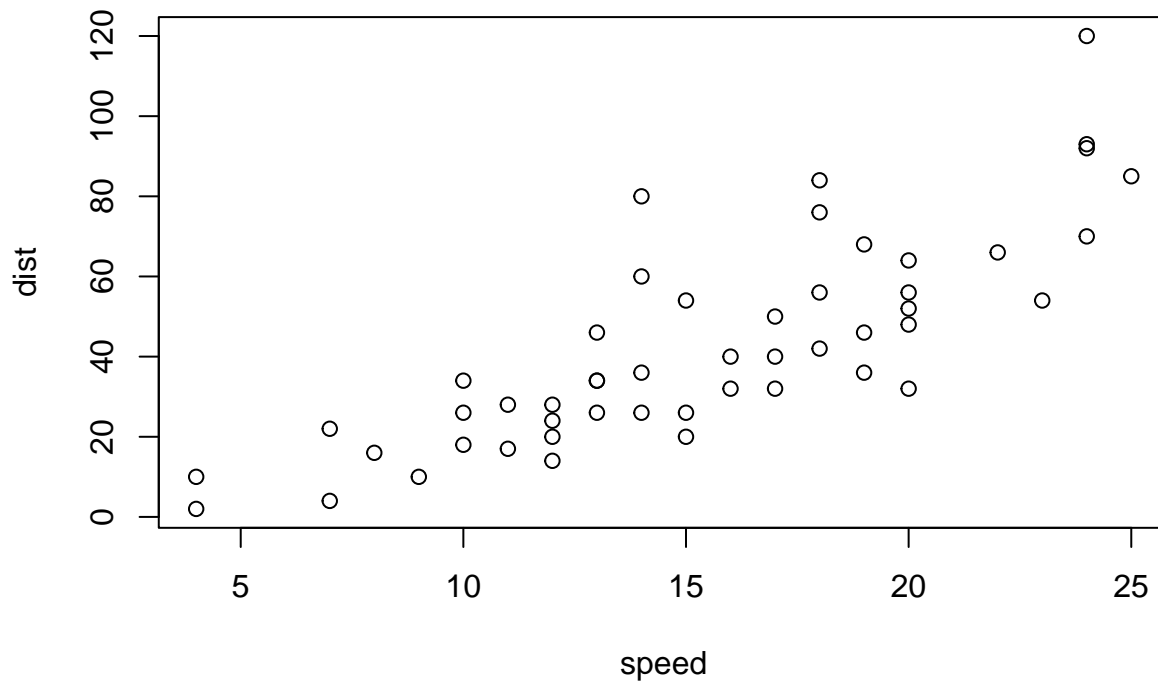
1.2 Test Code Chunk (1)

```
head(cars)
```

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

1.3 Test Code Chunk (2)

```
plot(cars)
```



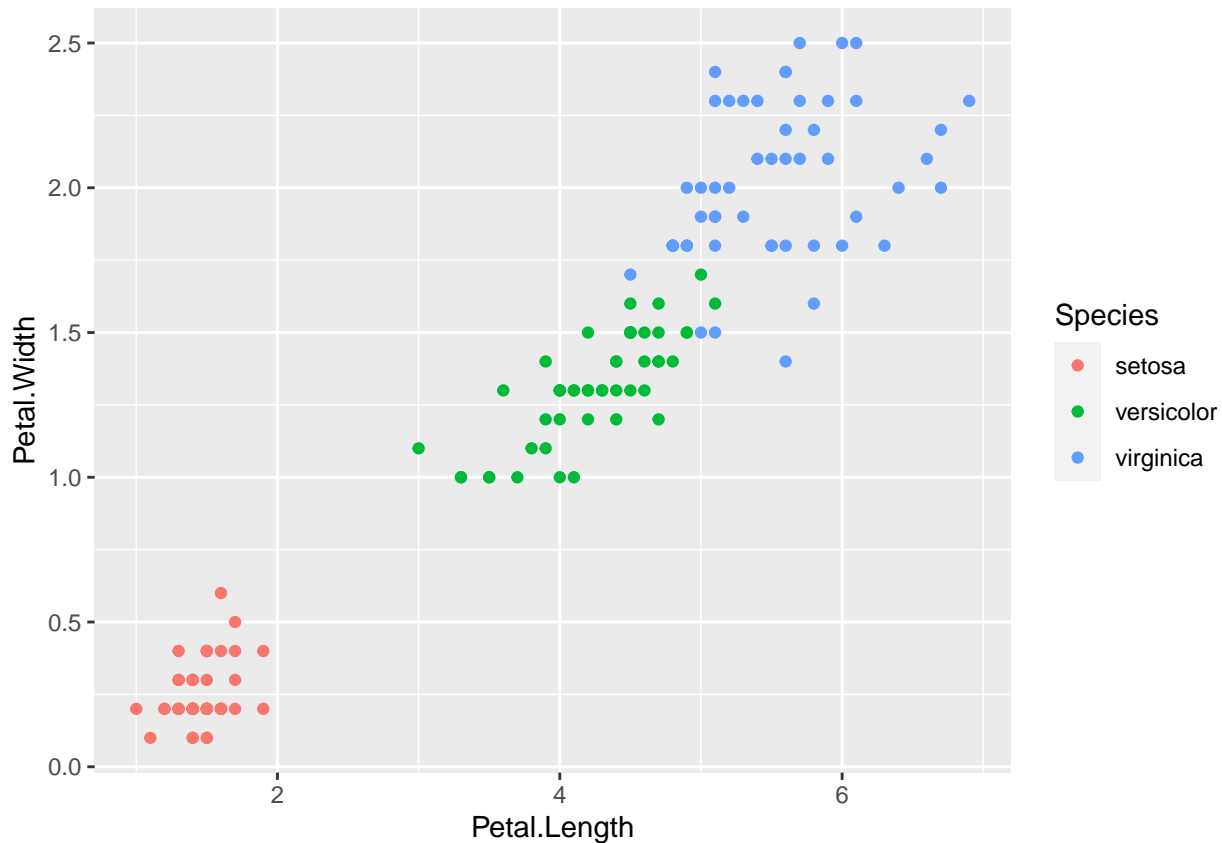
1.4 Test Code Chunk (3)

```
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

1.5 Test Code Chunk (4)

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



1.6 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.

1.7 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

1.8 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
```

2 Note

2.1 Comments

- 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

2.2 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.