

Challenge 7

YAML

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Change the YAML of this document to achieve the following (hint check `?rmarkdown::html_document`):

1. Add numbers to the sections.
2. A button to download the code.
3. Change the printing of the data frame to “kable”.
4. Change the output to a pdf.
5. Get the tex file for previous pdf (hint `?rmarkdown::pdf_document`).
6. Change it so that the figures are pdf instead of png.

```
library(tidyverse)
library(knitr)
opts_chunk$set(fig.path = "figure/c07-")
```

Header 1

Let's have a look at the `iris` data set. The dataset contains 150 observations.

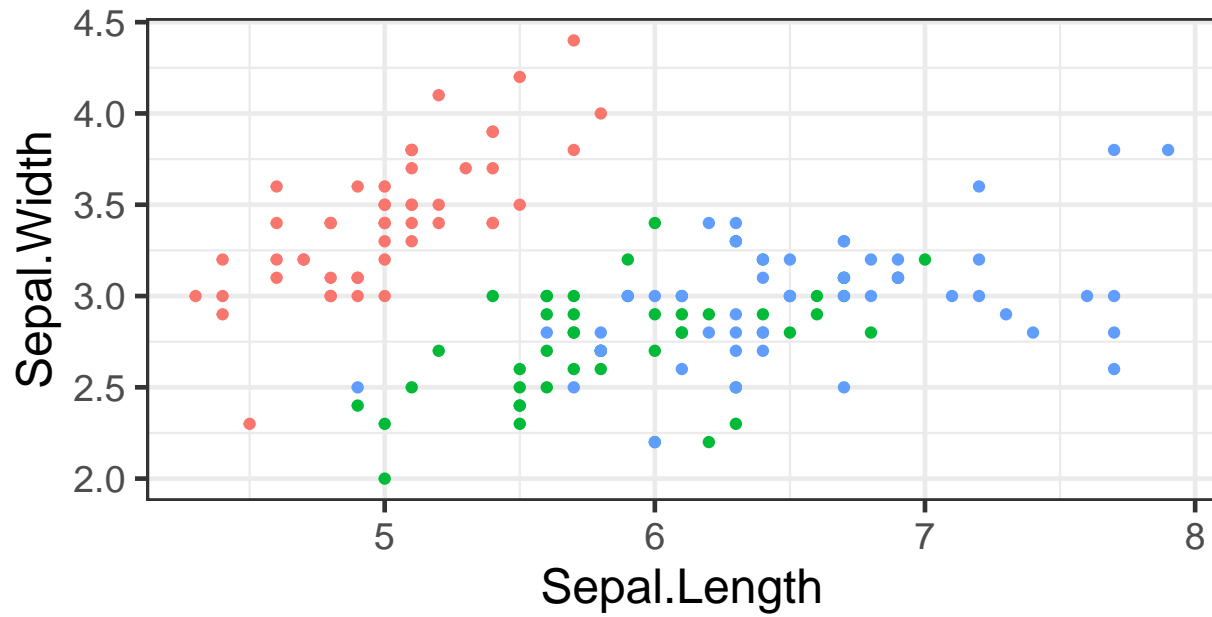
Sub1-header 1

```
iris %>%
  group_by(Species) %>%
  count(name = "Count")
```

Sub1-header 2

```
iris %>%
  ggplot(aes(Sepal.Length, Sepal.Width, color = Species)) +
  geom_point() +
  labs(title = "The iris data-set") +
  theme_bw(base_size = 18) +
  theme(legend.position = "bottom")
```

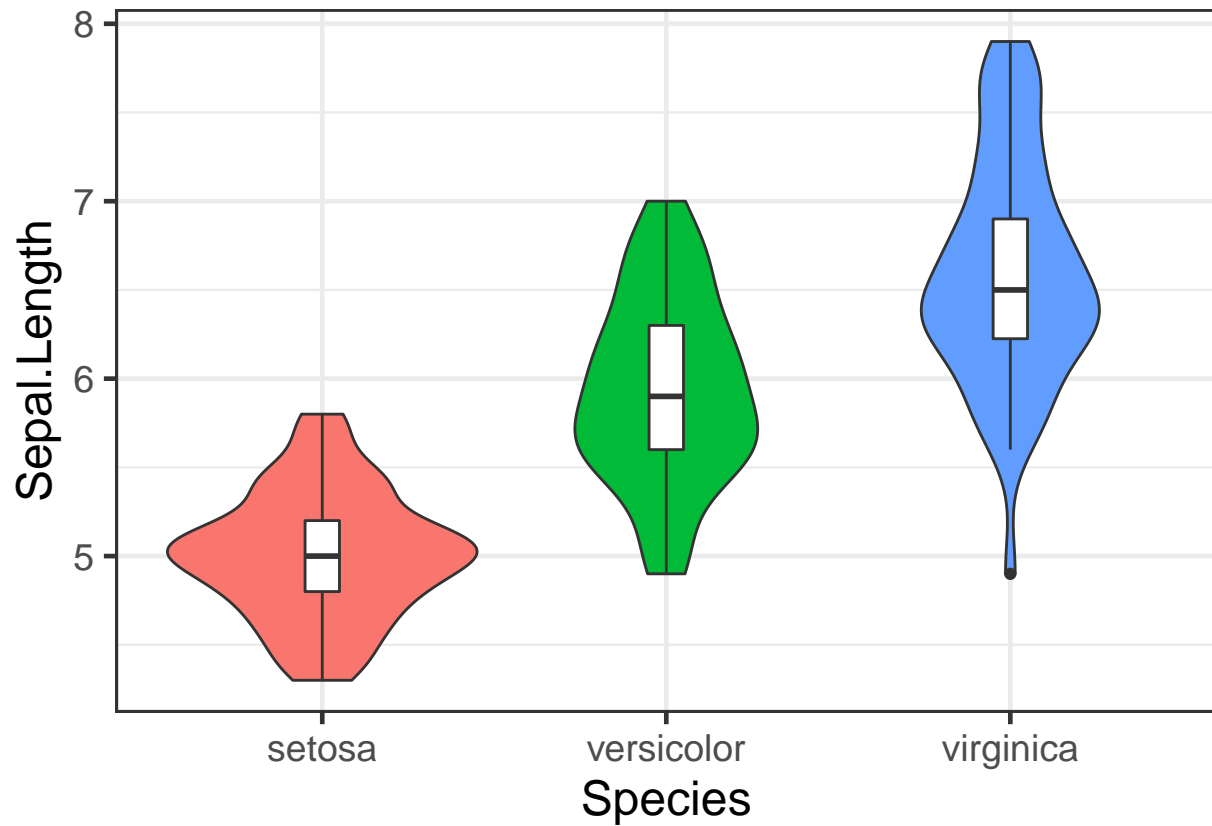
The iris data-set



Species • setosa • versicolor • virginica

Sub1-header 3

```
iris %>%  
  ggplot(aes(Species, Sepal.Length)) +  
  geom_violin(aes(fill = Species)) +  
  geom_boxplot(width = 0.1) +  
  theme_bw(base_size = 18) +  
  guides(fill = FALSE)
```

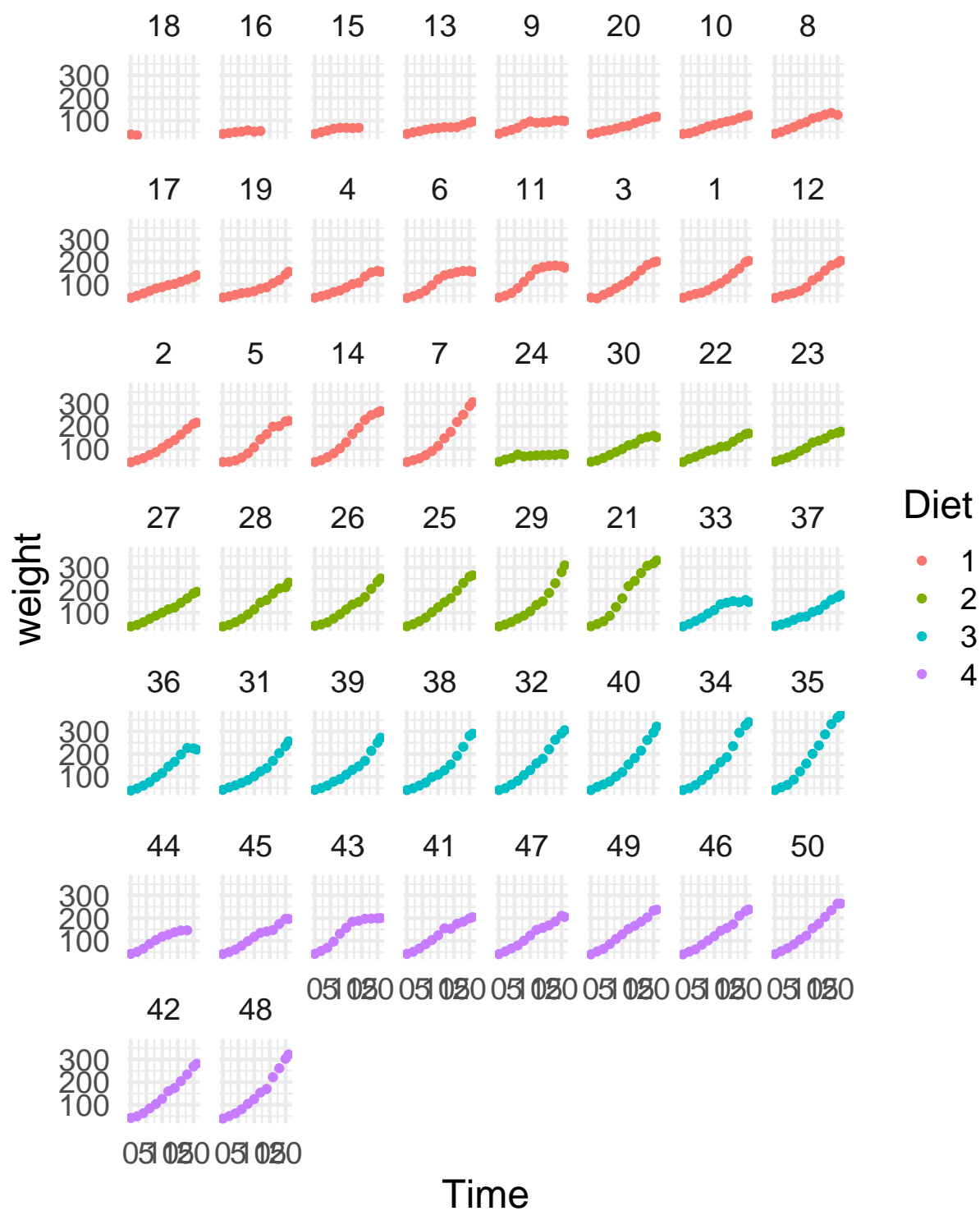


Header 2

Let's now have a look at `ChickWeight` data. The dataset contains 578 observations and 50 chicks.

Sub2-Header 1

```
ChickWeight %>%  
  ggplot(aes(Time, weight, color = Diet)) +  
  geom_point() +  
  facet_wrap(~Chick) +  
  theme_minimal(base_size = 18)
```



Sub2-Header 2

```
sumdat <- ChickWeight %>%
  filter(Time == max(Time)) %>%
  group_by(Diet) %>%
  summarise(Median = median(weight))
```

```
ChickWeight %>%
  filter(Time == max(Time)) %>%
  ggplot(aes(Diet, weight)) +
  geom_point(size = 3, alpha = 1/3) +
  theme_minimal(base_size = 18) +
  geom_point(data = sumdat, aes(Diet, Median), color = "red", size = 5)
```

