R Notebook

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```r
library(gitcreds)
gitcreds_set()
```

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```
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
```

```
-> Adding new credentials...
-> Removing credentials from cache...
-> Done.
```

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```
git config --global user.email " celiaok44@gmail.com"
git config --global user.name "herroug celia"
```

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```r
library(dada2); packageVersion("dada2")
```

```
[1] '1.28.0'
```

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```r
library(dplyr)
```

```
library(dplyr)

iris %>%
  filter(Sepal.Length > 6) %>% # filtered using size of Sepal Length
  filter(Species == "versicolor") # and the species
```

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
<dbl>	<dbl>	<dbl>	<dbl>	<fctr>
7.0	3.2	4.7	1.4	versicolor
6.4	3.2	4.5	1.5	versicolor
6.9	3.1	4.9	1.5	versicolor
6.5	2.8	4.6	1.5	versicolor
6.3	3.3	4.7	1.6	versicolor
6.6	2.9	4.6	1.3	versicolor
6.1	2.9	4.7	1.4	versicolor
6.7	3.1	4.4	1.4	versicolor
6.2	2.2	4.5	1.5	versicolor
6.1	2.8	4.0	1.3	versicolor

1-10 of 20 rows   Previous 1 2 Next
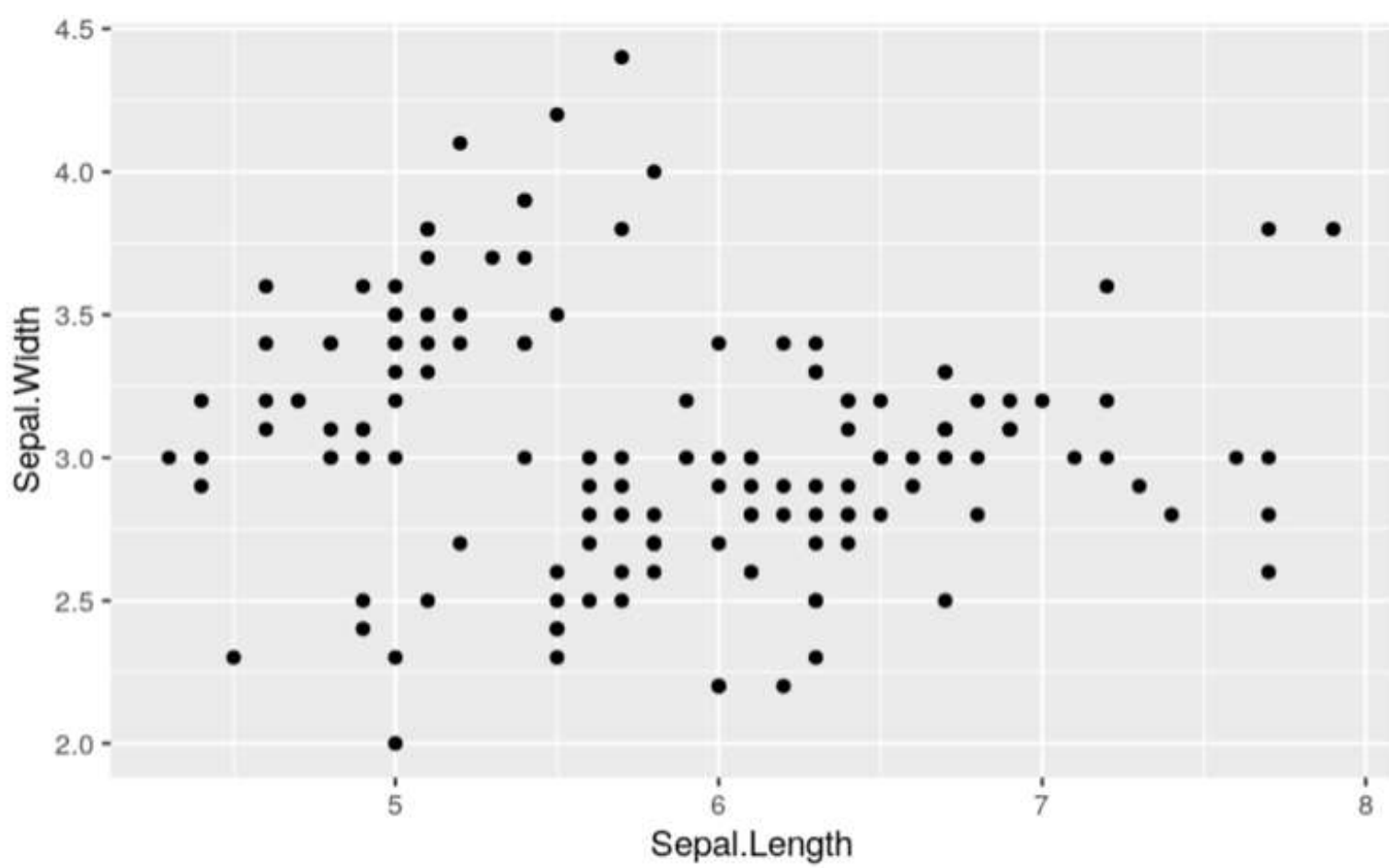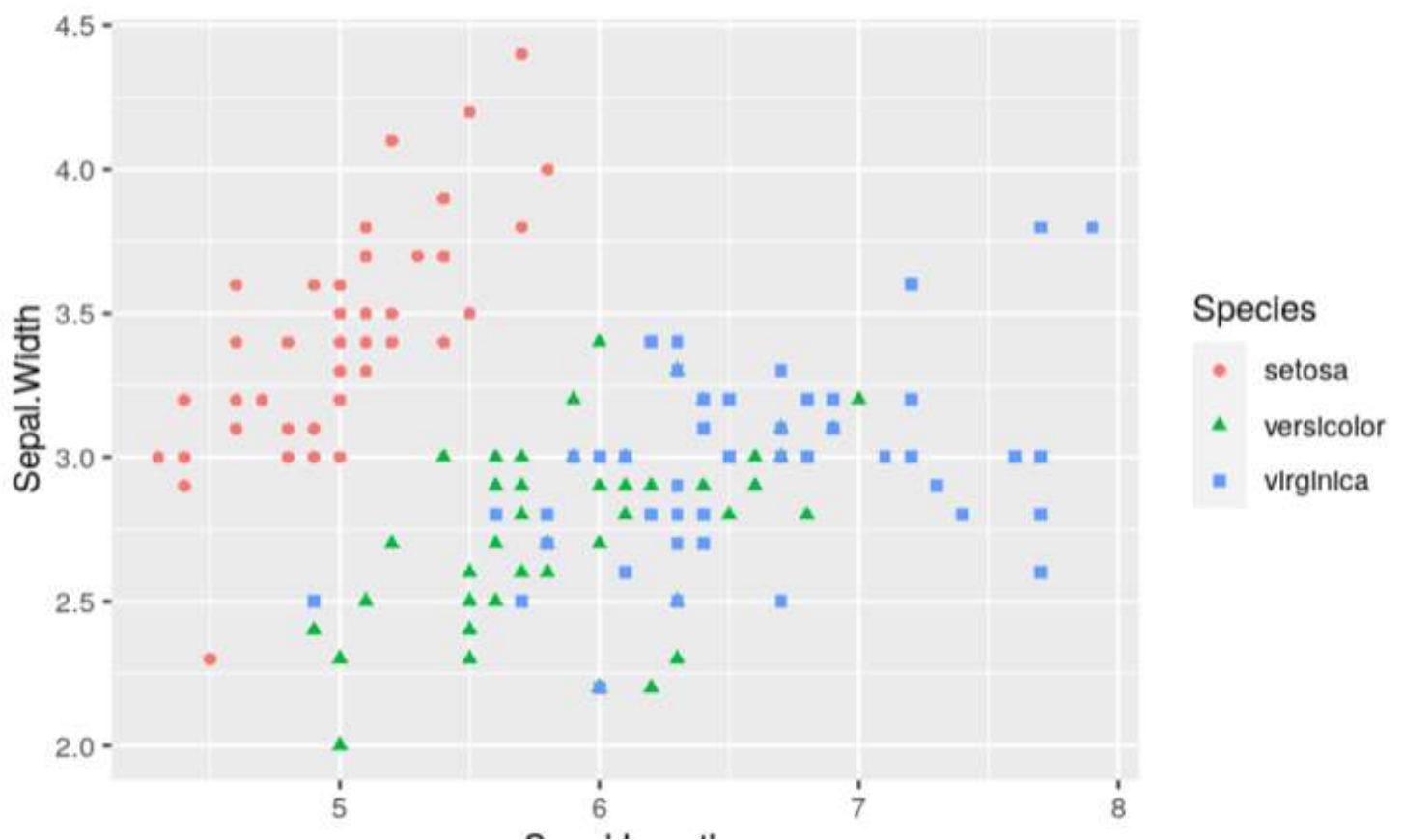
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NA
```

```
iris %>%
  select(Sepal.Length, Species) %>%
  mutate(Sepal.Length2 = Sepal.Length * 2) %>%
  mutate(Sepal.Length2_squared = Sepal.Length2 * Sepal.Length2)
```

Sepal.Length	Species	Sepal.Length2	Sepal.Length2_squared
<dbl>	<fctr>	<dbl>	<dbl>
5.1	setosa	10.2	104.04
4.9	setosa	9.8	96.04
4.7	setosa	9.4	88.36
4.6	setosa	9.2	84.64
5.0	setosa	10.0	100.00
5.4	setosa	10.8	116.64
4.6	setosa	9.2	84.64
5.0	setosa	10.0	100.00
4.4	setosa	8.8	77.44
4.9	setosa	9.8	96.04

1-10 of 150 rows   Previous **1** 2 3 4 5 6 ... 15 Next

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```
# We can calorize and give a shape by month
# scatter plot
ggplot(data = iris, aes(Sepal.Length, Sepal.Width)) +
  geom_point(aes(color = Species, shape = Species)) # shape is the same thing with classical plot on R
```

```
#Boxplot
ggplot(data = iris, aes(Species, Sepal.Length)) + #  what I want to represent
  geom_boxplot(aes(color = Species, fill = Species), alpha=0.4) + # how I represent it. Here I changed geometry using boxplo
t.
  labs(x ="Species", y = "Sepal.Length (mm)") +
  theme_minimal()
```