

different types of plots

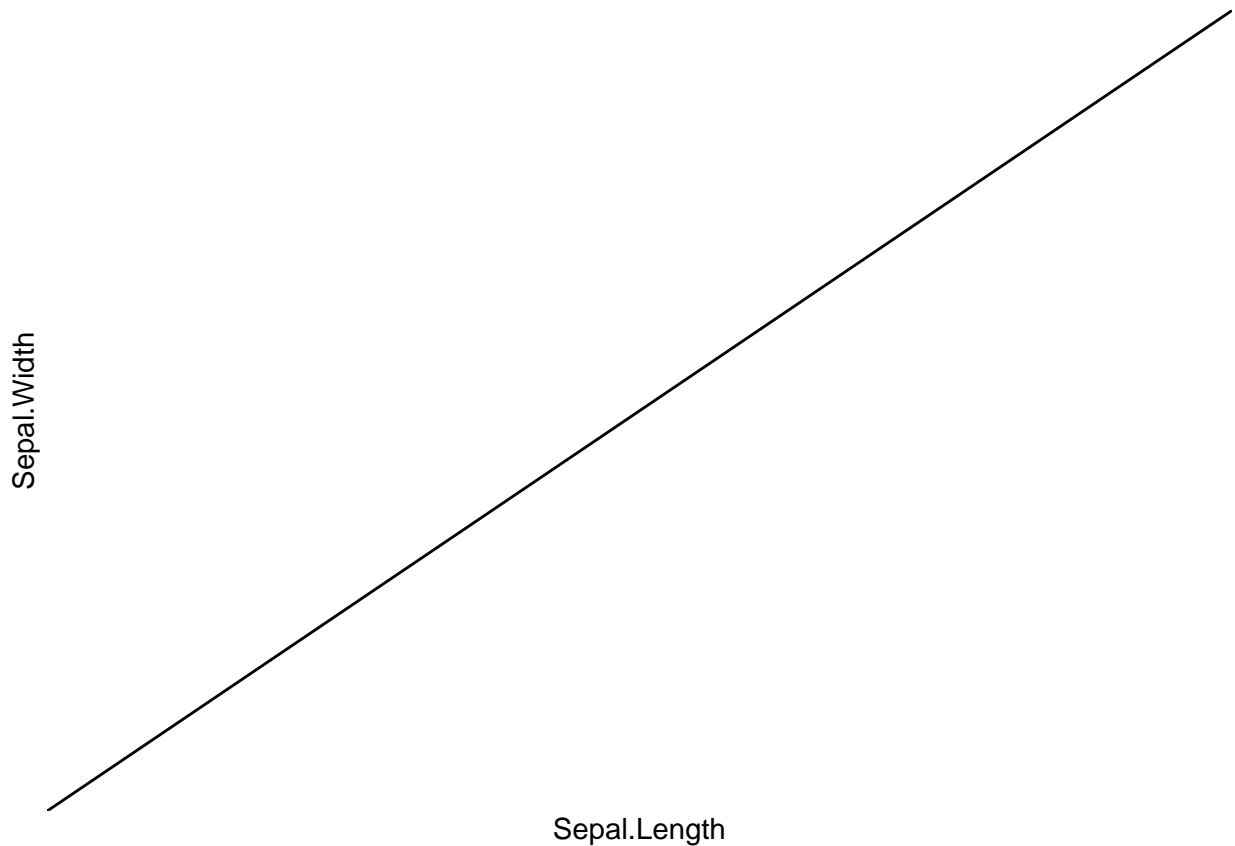
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Exploring Various Plot Types with ggplot2

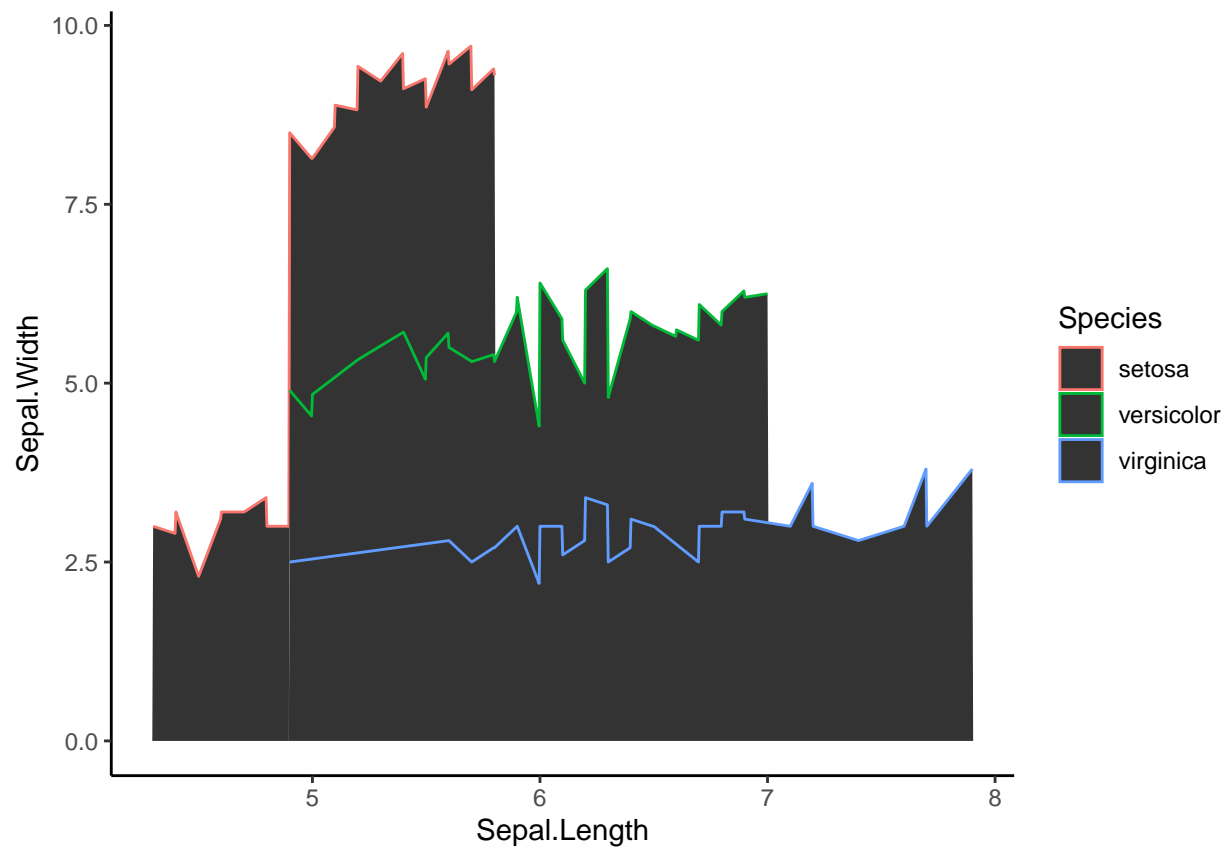
abline plot

```
library(ggplot2)
data("iris")
df <- iris
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour =Species ))+theme_classic()+geom_abline()
```



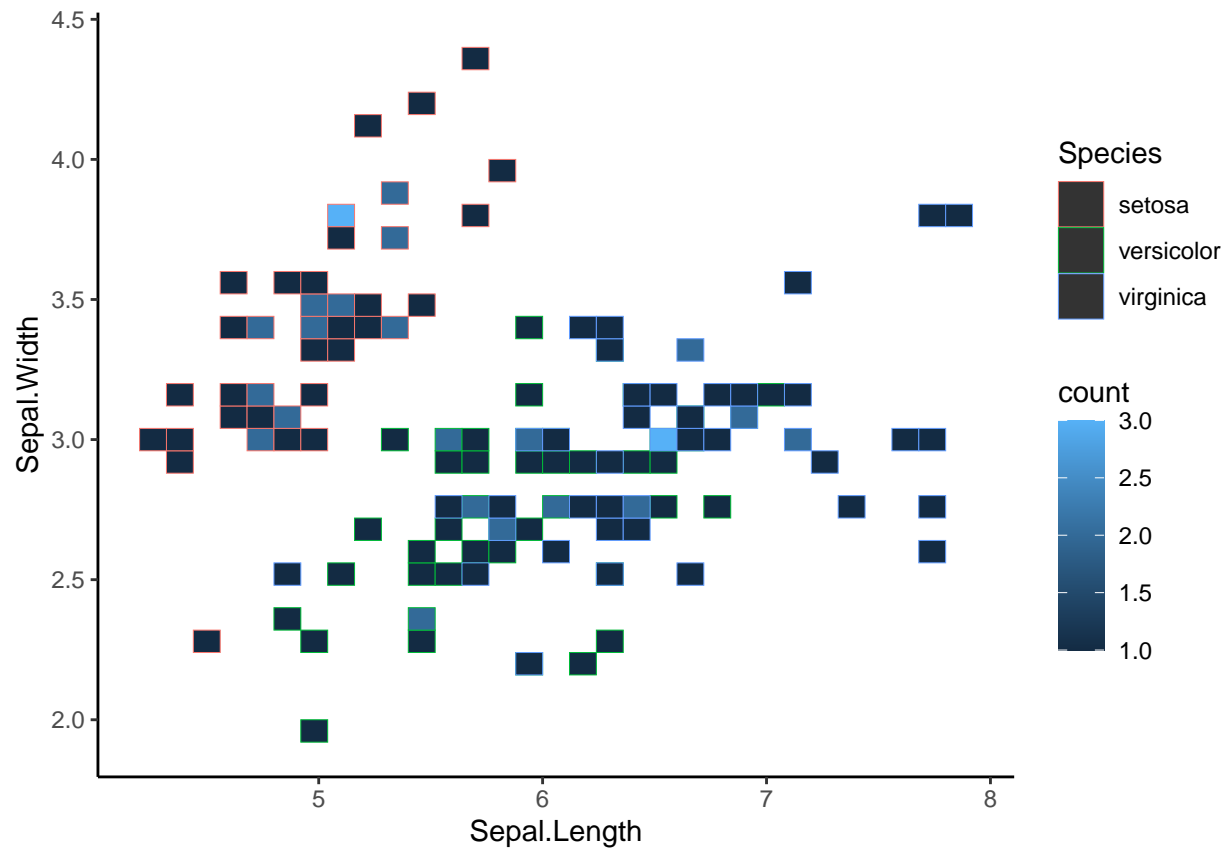
area plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour = Species))+theme_classic()+geom_area()
```



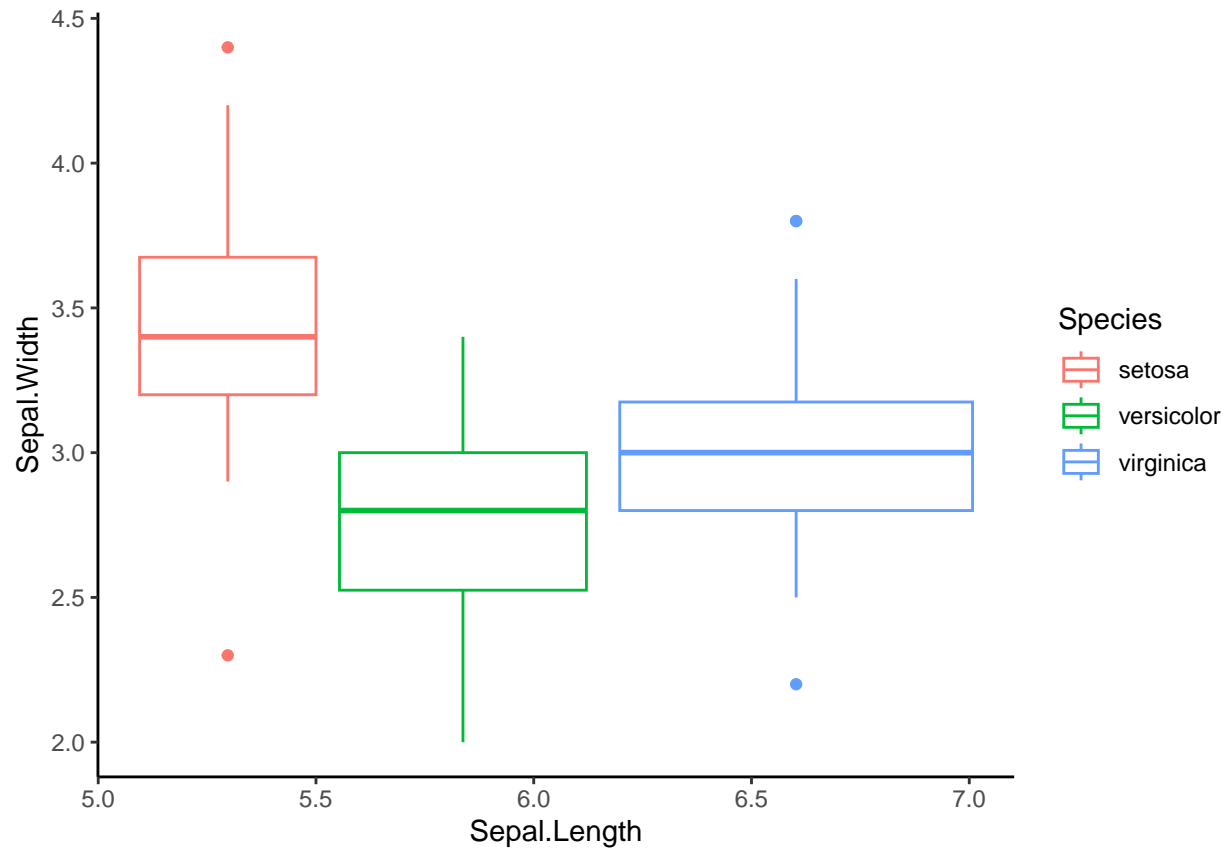
bin_2nd plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour = Species))+theme_classic()+geom_bin_2d()
```



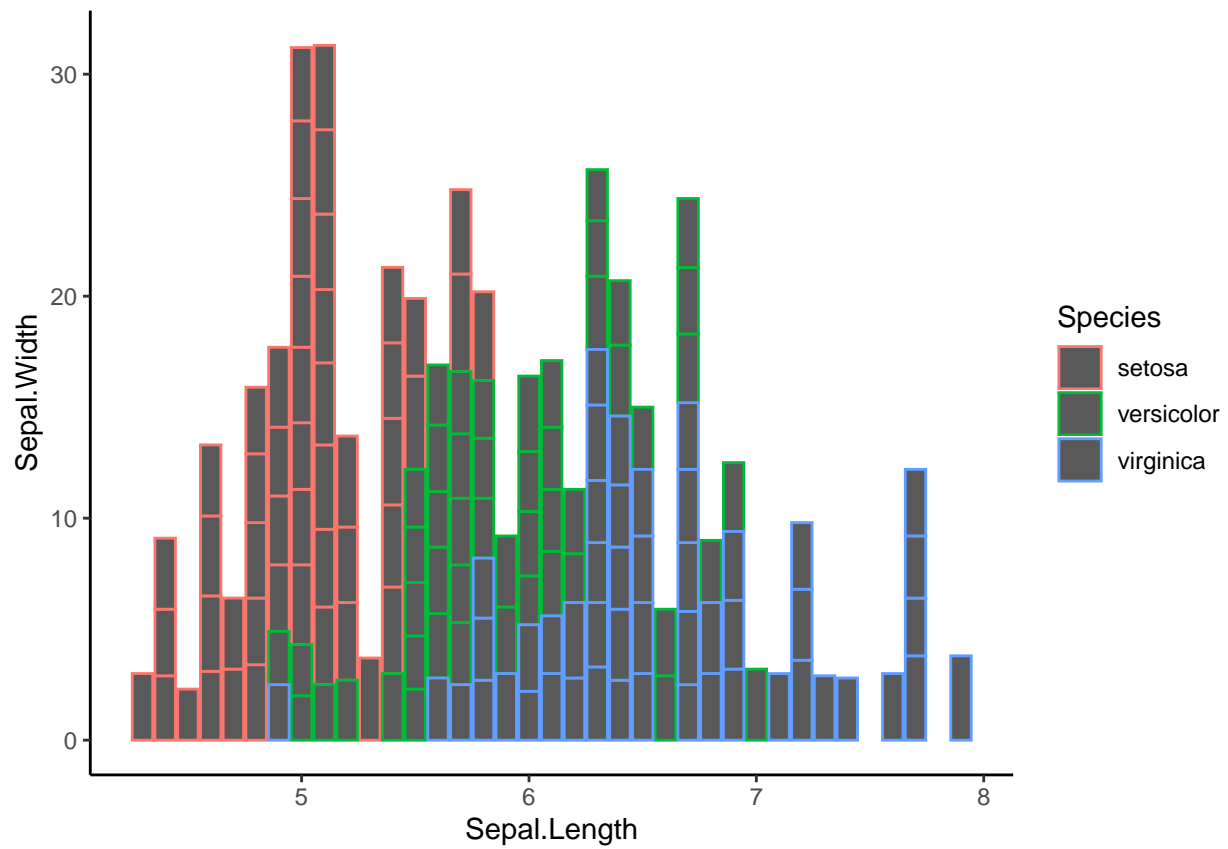
boxplot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour = Species))+theme_classic()+geom_boxplot()
```



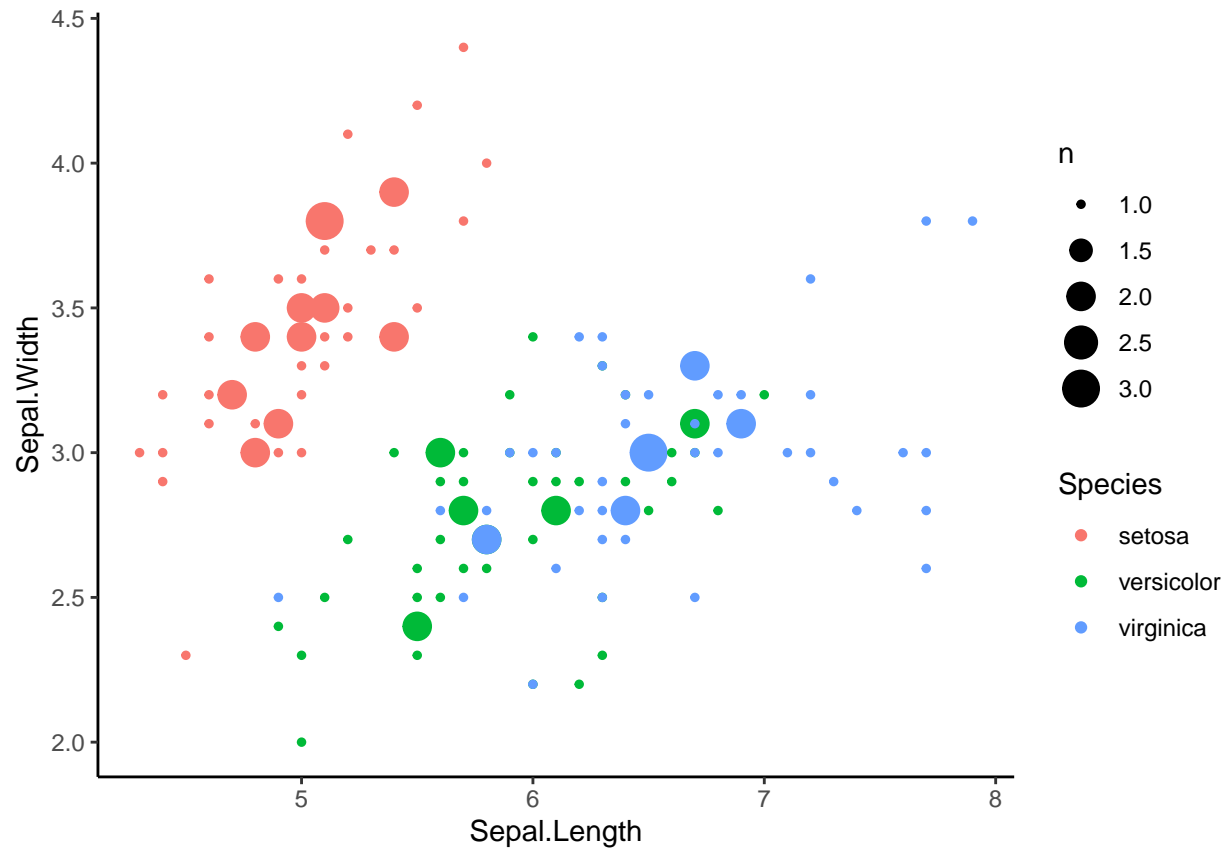
col_plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour = Species))+theme_classic()+geom_col()
```



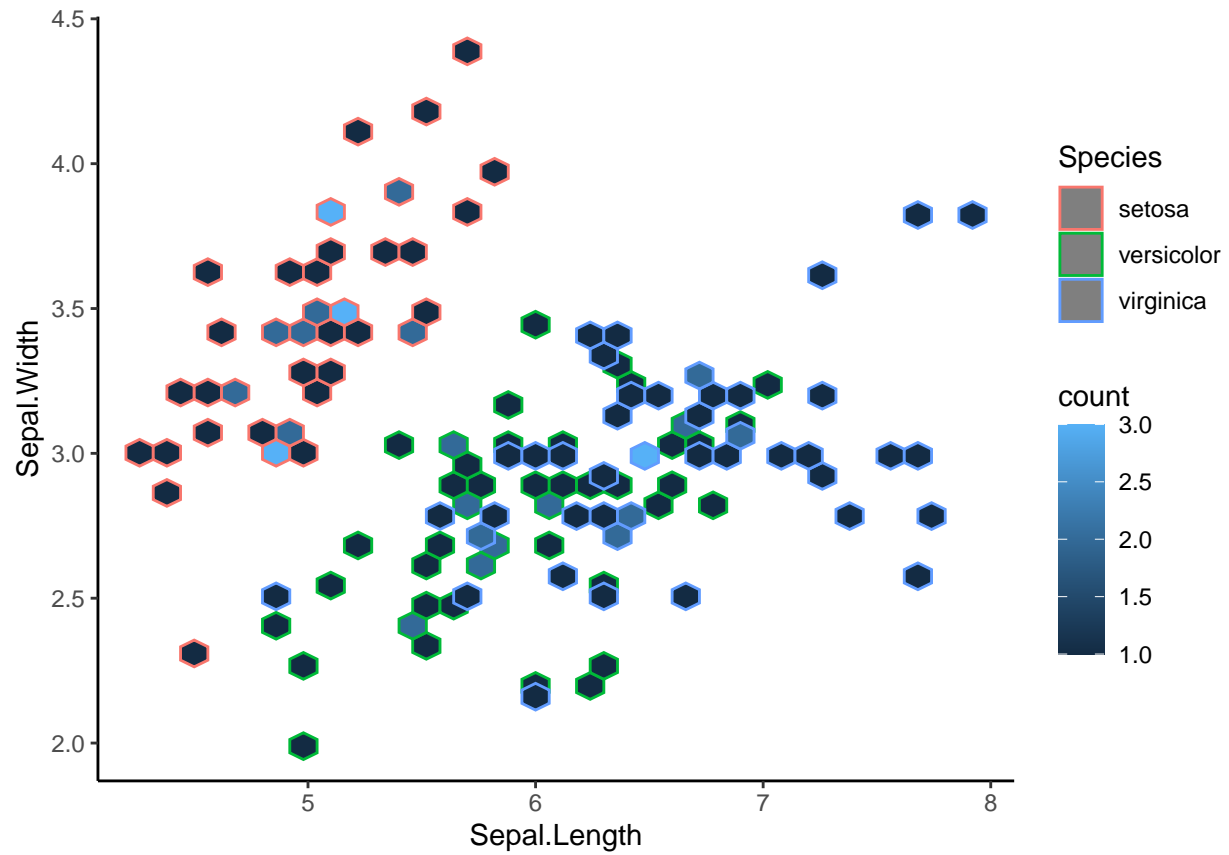
count plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species)) + theme_classic() + geom_count()
```



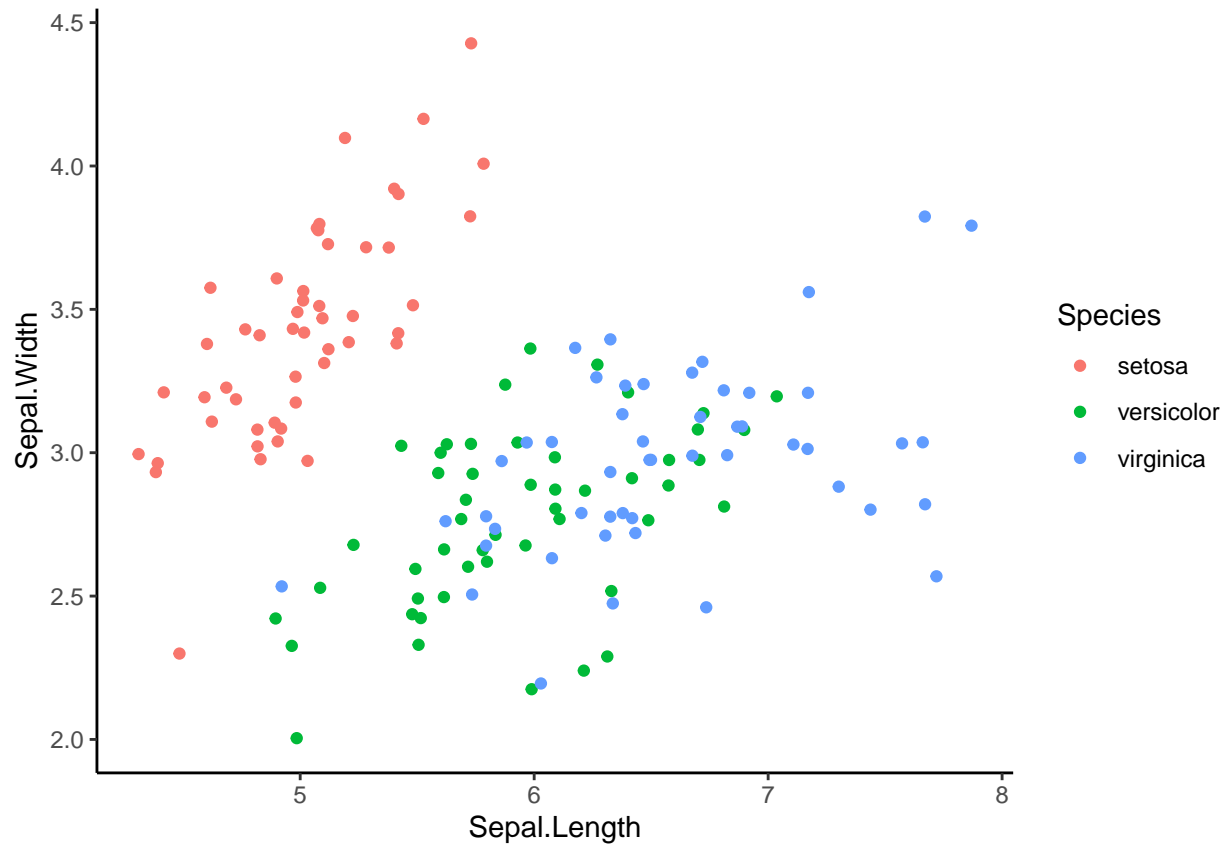
hex plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species)) + theme_classic() + geom_hex()
```



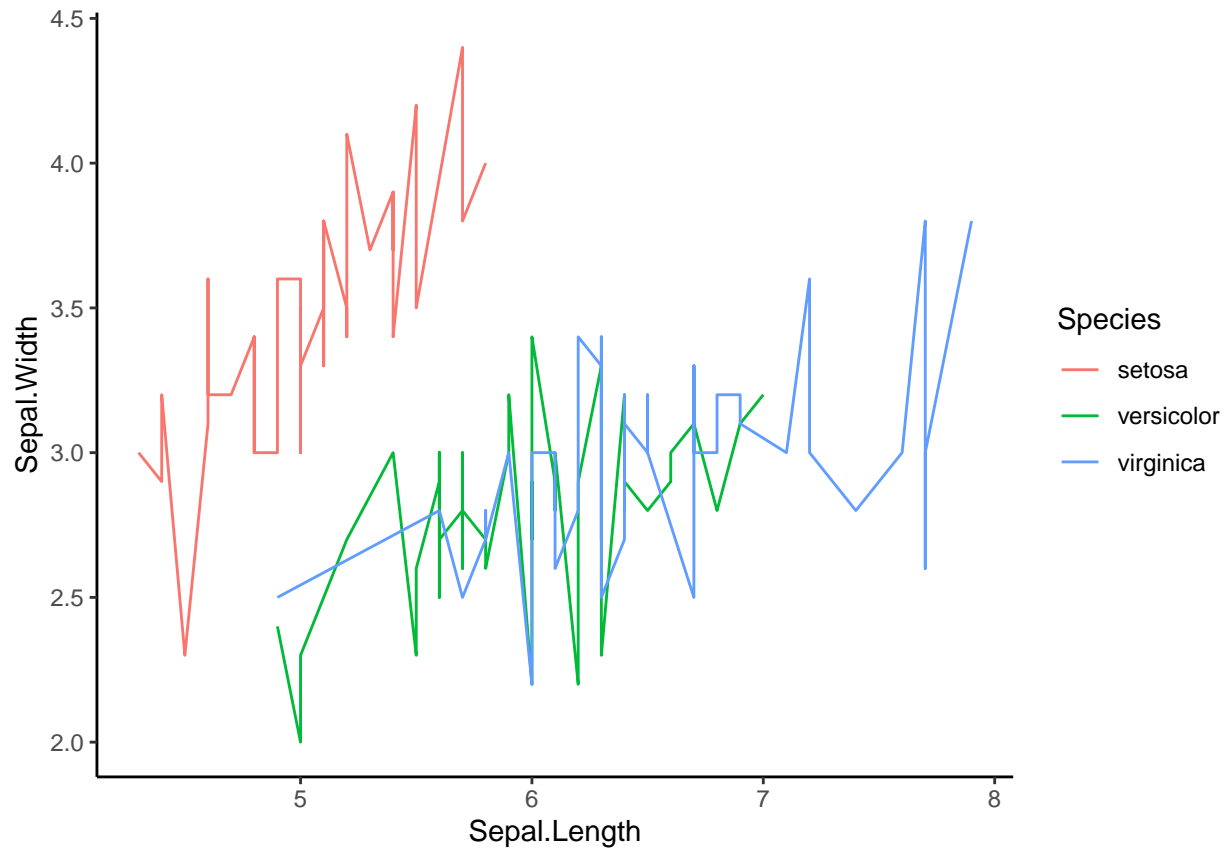
jitter plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species)) + theme_classic()+geom_jitter()
```



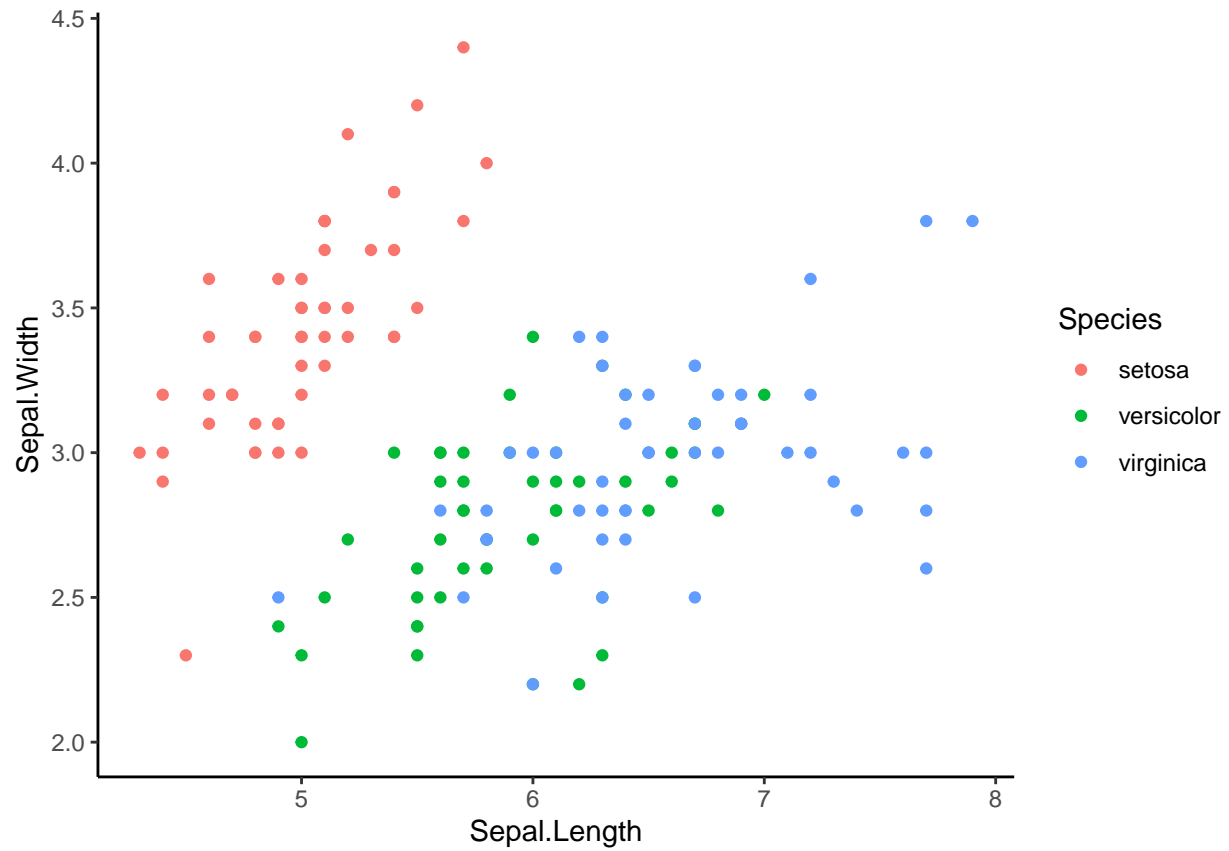
line plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species)) + theme_classic()+geom_line()
```

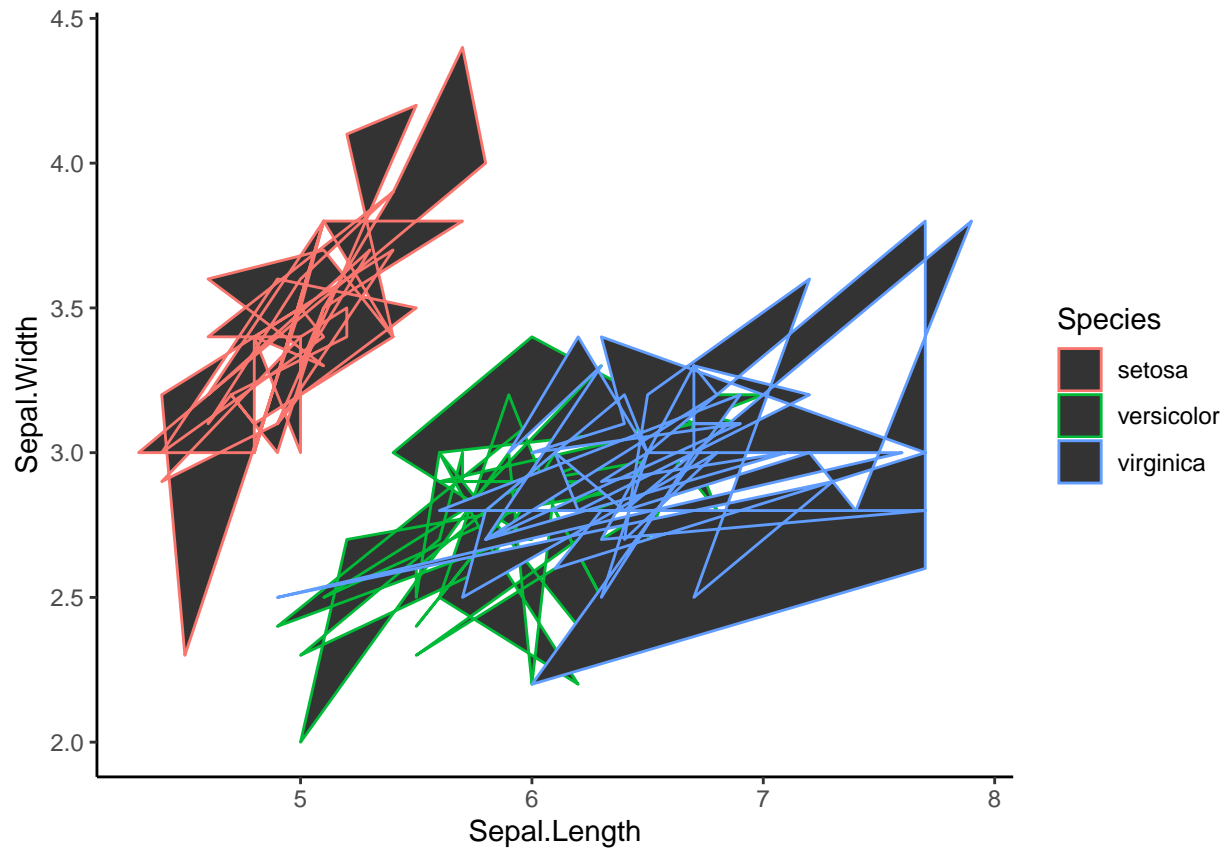
point plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species))+ theme_classic()+geom_point()
```



polygon plot

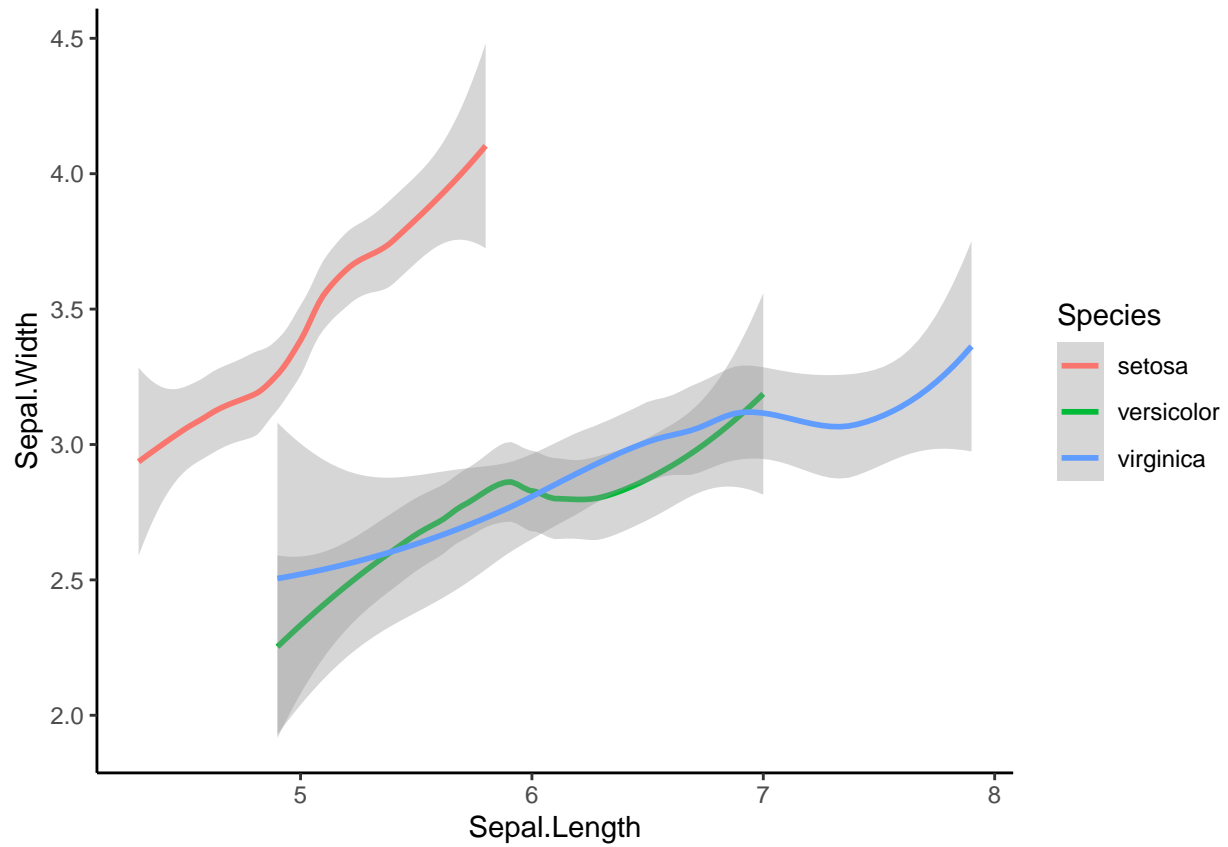
```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species)) + theme_classic() + geom_polygon()
```



smooth plot

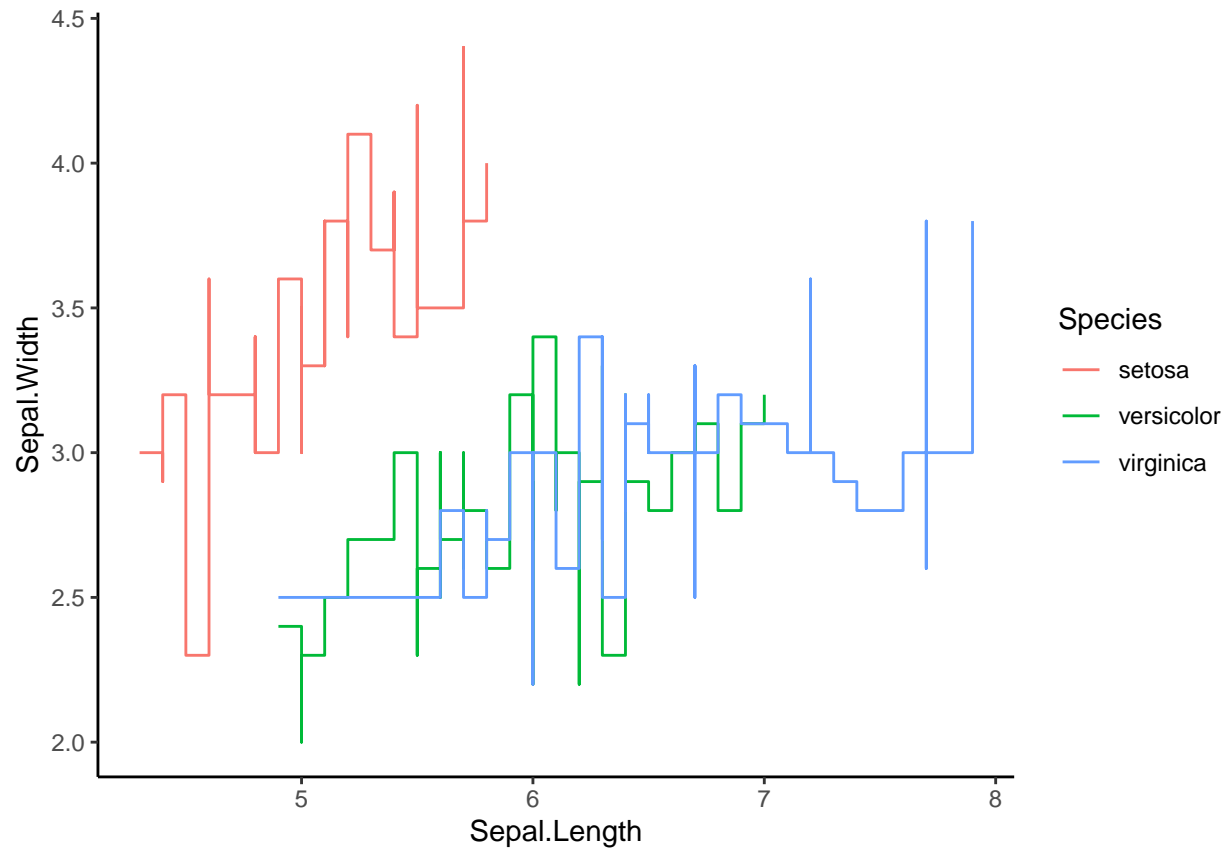
```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species)) + theme_classic() + geom_smooth()
```

```
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'
```



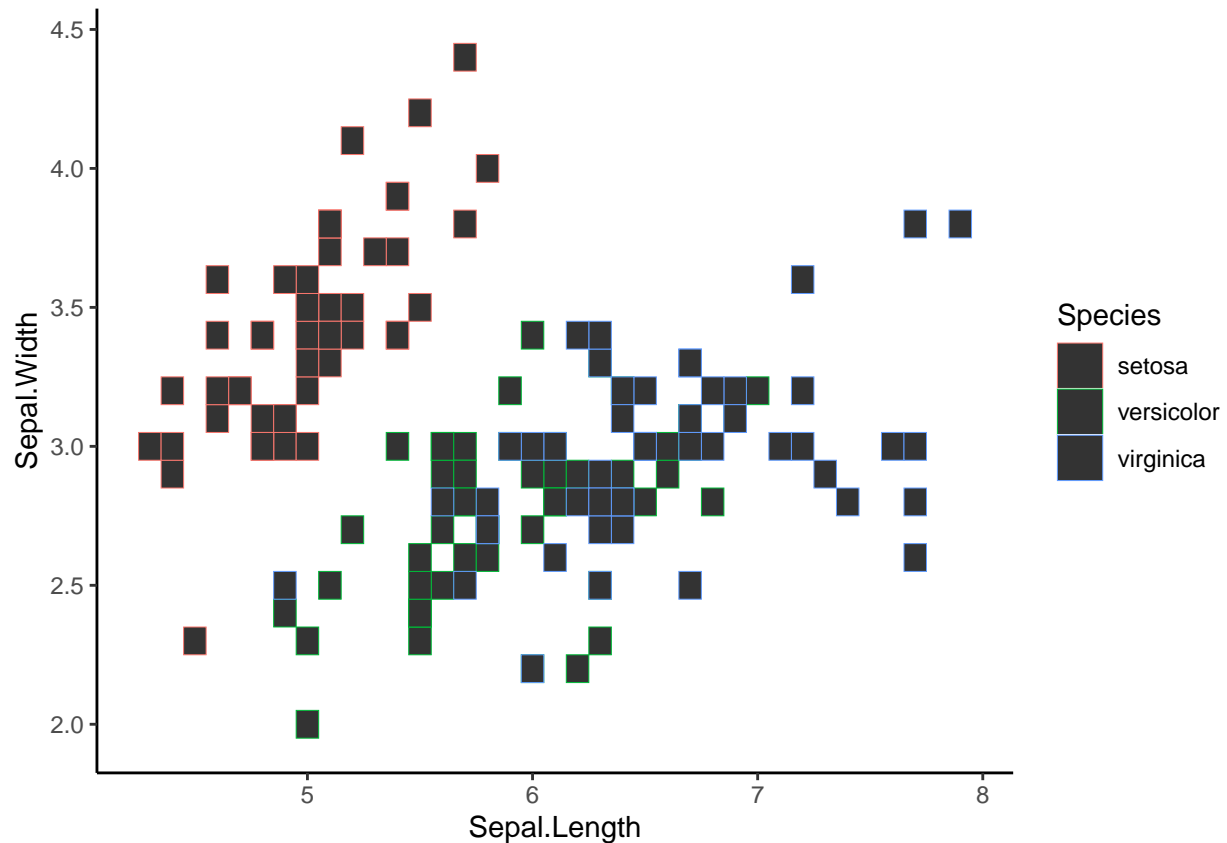
step plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species)) + theme_classic() + geom_step()
```



tile plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species))+ theme_classic()+geom_tile()
```



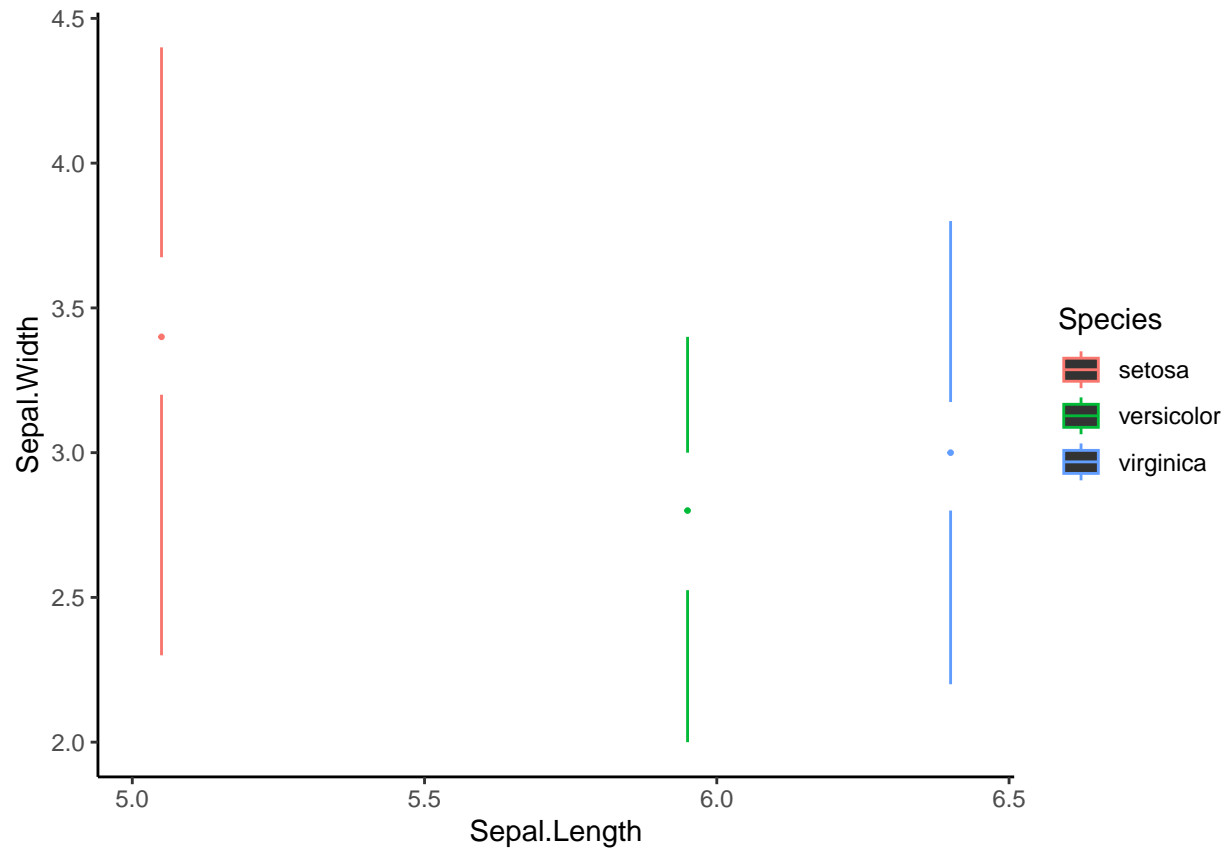
```
## tufteboxplot
```

```
library(ggplot2)
library(ggthemes)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species)) + theme_classic() + geom_tufteboxplot()
```

```
## Warning: The following aesthetics were dropped during statistical transformation: y.
## i This can happen when ggplot fails to infer the correct grouping structure in
##   the data.
## i Did you forget to specify a 'group' aesthetic or to convert a numerical
##   variable into a factor?
```

```
## Warning: Using the 'size' aesthetic in this geom was deprecated in ggplot2 3.4.0.
## i Please use 'linewidth' in the 'default_aes' field and elsewhere instead.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
## generated.
```

```
## Warning: Using the 'size' aesthetic with geom_segment was deprecated in ggplot2 3.4.0.
## i Please use the 'linewidth' aesthetic instead.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
## generated.
```



violin plot

```
library(ggplot2)
ggplot(data = df, mapping = aes(x=Sepal.Length, y=Sepal.Width,
                                colour=Species))+ theme_classic()+geom_violin()
```

Warning: 'position_dodge()' requires non-overlapping x intervals.

