ggplot Part II

Workshop on Data Visualization in R

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NBIS, SciLifeLab

Only edit title, subtitle & author above this ---

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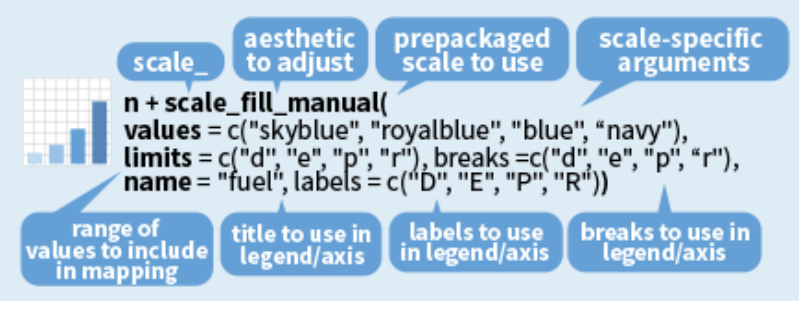
Contents

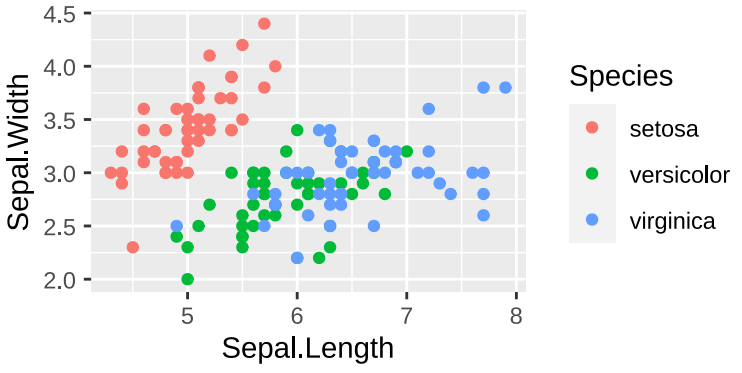
Scales • Discrete Colors

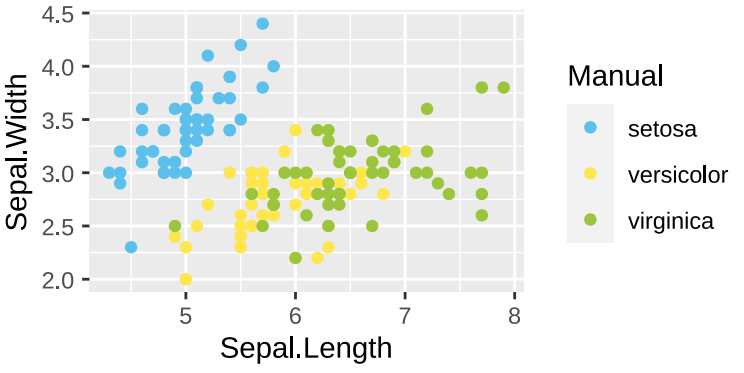
- scales: position, color, fill, size, shape, alpha, linetype
- syntax: `scale_<aesthetic>_<type>`




```
p <- ggplot(iris)+geom_point(aes(x=Sepal.Le
                    y=Sepal.Width,color=Sp
p
```

```
p + scale_color_manual(
     name="Manual",
     values=c("#5BC0EB","#FDE74C","#9BC53D"
```



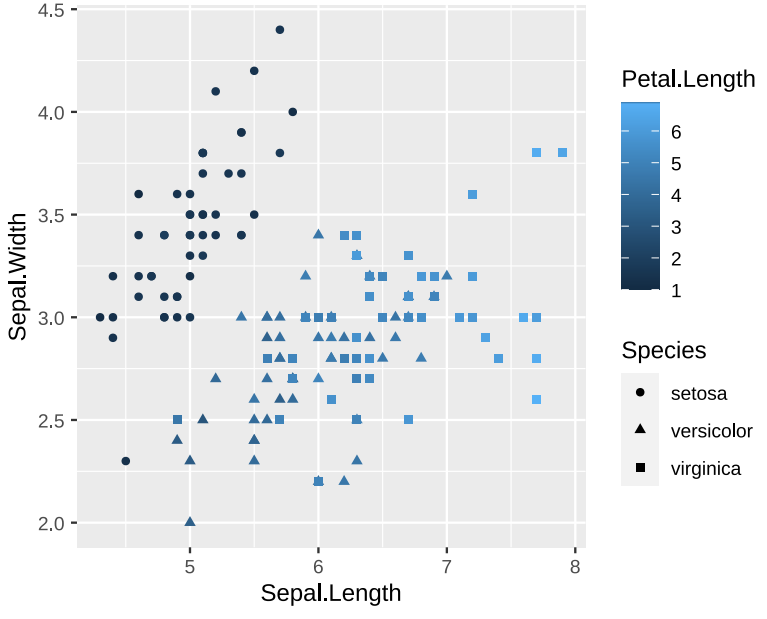


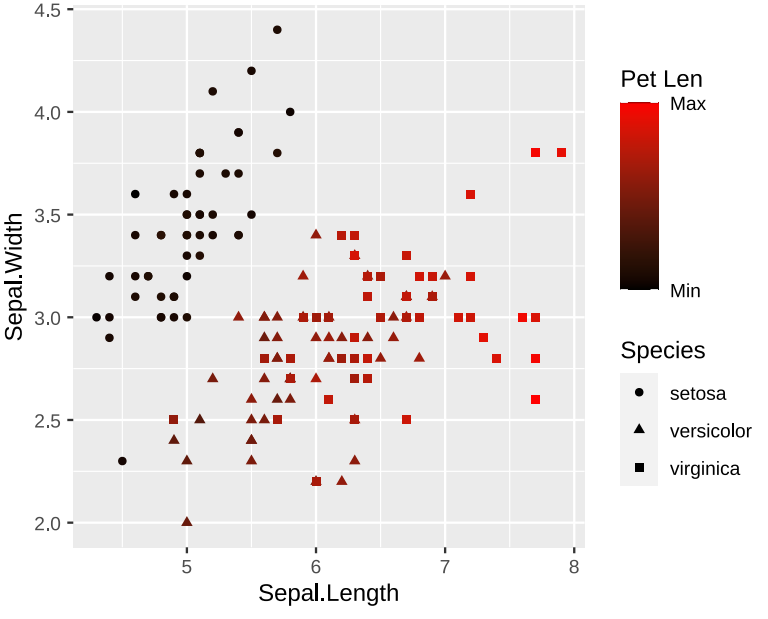
Scales • Continuous Colors

- In RStudio, type `scale_`, then press **TAB**

```
p <- ggplot(iris)+
      geom_point(aes(x=Sepal.Length,
                     y=Sepal.Width,
      shape=Species,color=Petal.Length))
p
```

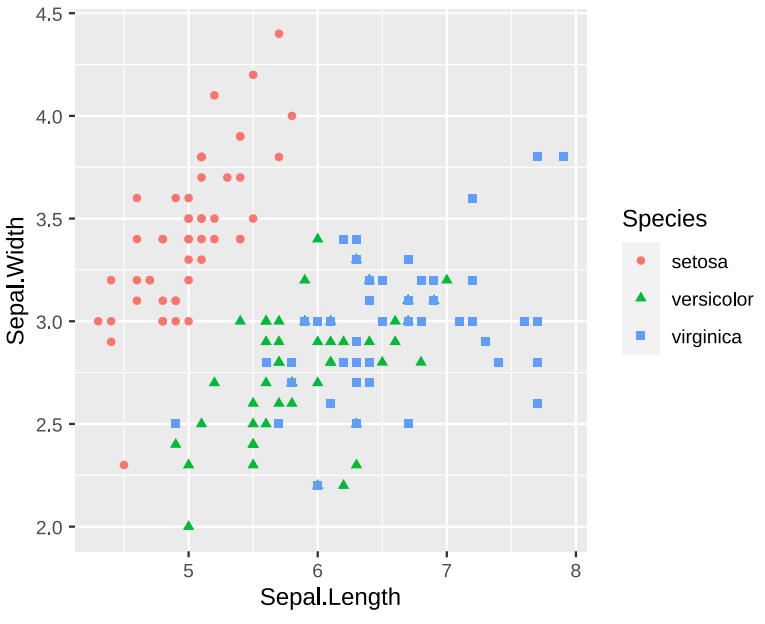
```
p +
scale_color_gradient(name="Pet Len",
  breaks=range(iris$Petal.Length),
  labels=c("Min","Max"),
  low="black",high="red")
```



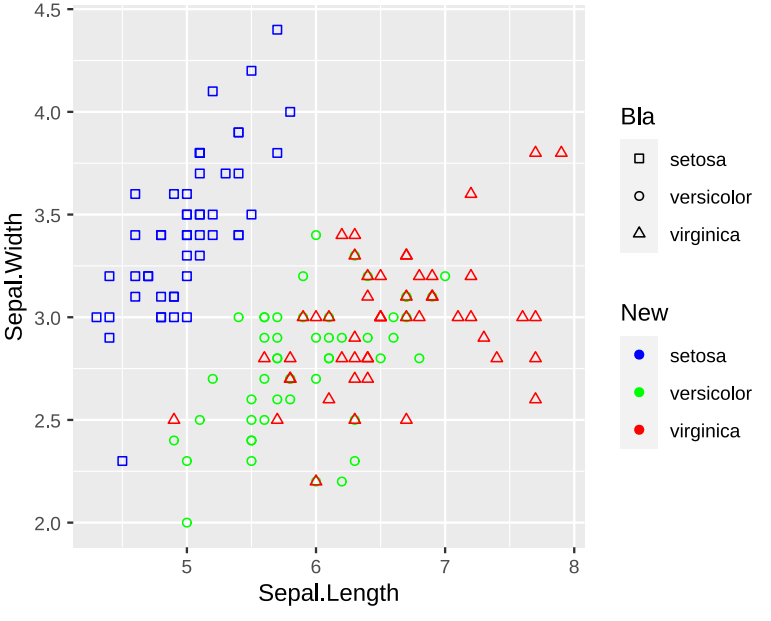


Scales • Shape

```
p <- ggplot(iris)+
      geom_point(aes(x=Sepal.Length,
                     y=Sepal.Width,
      shape=Species,color=Species))
p
```



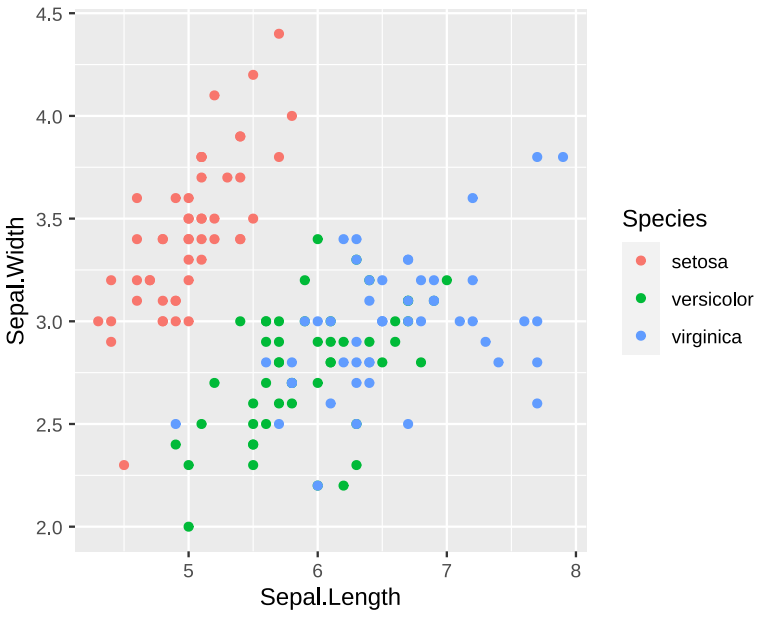

```
p +
scale_color_manual(name="New",
   values=c("blue","green","red"))+
scale_shape_manual(name="Bla",values=c(0,1,
```



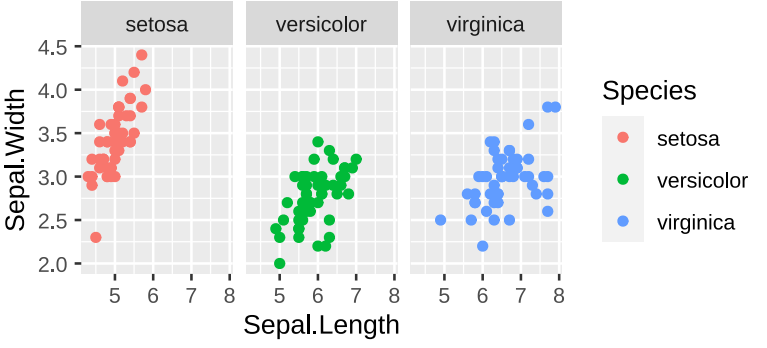
Facets • facet_wrap

- Split to subplots based on variable(s)
- Facetting in one dimension

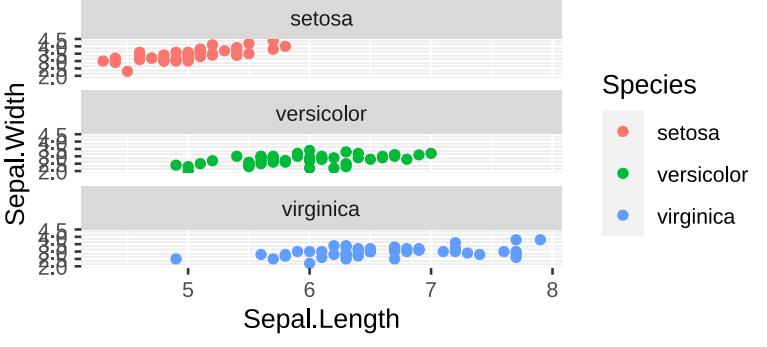
```
p <- ggplot(iris)+
     geom_point(aes(x=Sepal.Length,
                    y=Sepal.Width,
                    color=Species))
p
```




```
p + facet_wrap(~Species)
```




```
p + facet_wrap(~Species,nrow=3)
```



Thank you. Questions?

R version 4.1.3 (2022-03-10)
Platform: x86_64-pc-linux-gnu (64-bit)
OS: Ubuntu 18.04.6 LTS

Built on : 22-Feb-2023 at 16:53:37