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NB SciLifeLab

- Scales color
- Scales shape
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Scales • Discrete Colors



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



```
p <- ggplot(iris)+geom_point(aes(x=Sepal.Le p + scale_color_manual(</pre>
                            v=Sepal.Width.color=Sp
                                                                  name="Manual",
                                                                  values=c("#5BC0EB","#FDE74C","#9BC53D"
  4.5
                                                              4.5
                                                              4.0
                                                           Sepal.Width 3.5 3.0 2.5
                                          Species
                                                                                                     Manual
Sepal.Width
                                              setosa
                                                                                                         setosa
                                              versicolor
                                                                                                         versicolor
                                             virginica
                                                                                                         virginica
  2.0
                                                              2.0
               Sepal.Length
                                                                           Sepal.Length
```

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Scales • Continuous Colors



• In RStudio, type scale_, then press TAB

```
p <- ggplot(iris)+</pre>
        geom_point(aes(x=Sepal.Length,
                                                          scale_color_gradient(name="Pet Len",
                           y=Sepal.Width,
                                                             breaks=range(iris$Petal.Length),
        shape=Species,color=Petal.Length))
                                                             labels=c("Min","Max"),
                                                             low="black",high="red")
р
  4.5 -
                                            Petal.Length
                                                                                                      Pet Len
                                                            4.0 -
  4.0 -
                                                         Sepal.Width
Sepal Width
                                               3
                                            Species
                                                                                                      Species

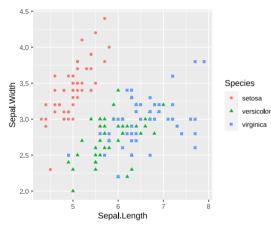
    setosa

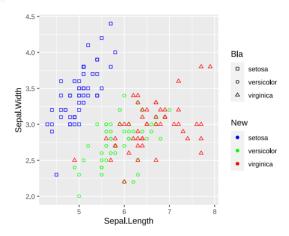
  2.5 -
                                             ▲ versicolor
                                                                                                       ▲ versicolor
                                             virginica
                                                                                                       virginica
  2.0 -
                                                            2.0 -
                  Sepal.Length
                                                                            Sepal.Length
```

Scales • Shape



```
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

