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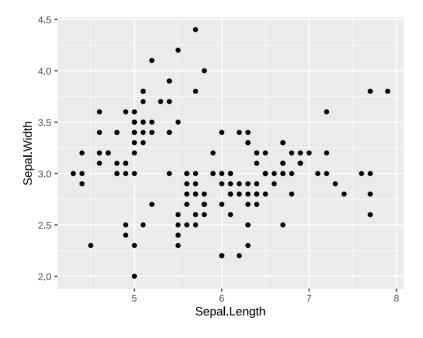


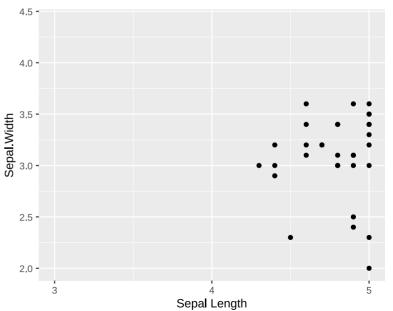
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Scales • Axes



- scales: x, y
- syntax: scale_<axis>_<type>
- arguments: name, limits, breaks, labels





Coordinate Systems





- coord_cartesian(xlim=c(2,8))for zooming in
- coord_map for controlling limits on maps
- coord_polar

```
p <- ggplot(iris,aes(x="",y=Petal.Length,fi p+coord_polar("y",start=0)
  geom_bar(stat="identity")
p</pre>
```

Theme



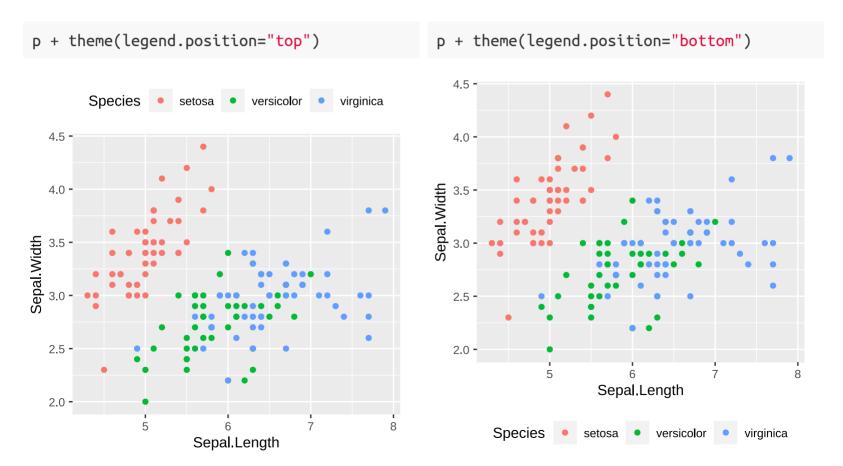
- Modify non-data plot elements/appearance
- Axis labels, panel colors, legend appearance etc
- Save a particular appearance for reuse
- ?theme

```
ggplot(iris,aes(Petal.Length))+
  geom_histogram()+
  facet_wrap(~Species,nrow=2)+
  theme_grey()
```

```
ggplot(iris,aes(Petal.Length))+
  geom_histogram()+
  facet_wrap(~Species,nrow=2)+
  theme_bw()
```

Theme • Legend





Theme • Text



Theme • Rect



```
element rect(fill=NULL,color=NULL,size=NULL,linetype=NULL)
```

```
p <- p + theme(
    plot.background=element_rect(fill="#b3e2cd"),
    panel.background=element_rect(fill="#fdcdac"),
    panel.border=element_rect(fill=NA,color="#cbd5e8",size=3),
    legend.background=element_rect(fill="#f4cae4"),
    legend.box.background=element_rect(fill="#e6f5c9"),
    strip.background=element_rect(fill="#fff2ae")
)</pre>
```

