

Colors

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```
#Load packages
library(tidyverse)
library(ggsci) #for easy color scales
library(patchwork) #to make multi-panel plots
library(palmerpenguins) # our fave penguin friends :)
```

1 Colors

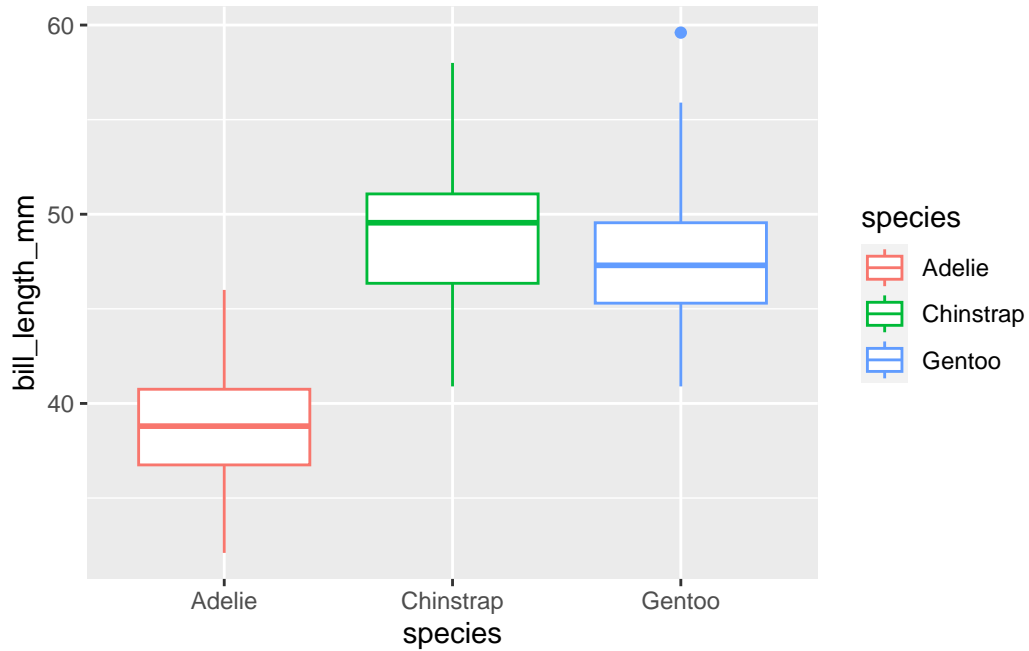
We can change colors conditionally or manually.

Conditional Color Change To change colors conditionally, we use `color=` or `fill=` within an `aes()` call.

Here I have changed the outline color (`color=`) for a series of boxplots based on species

```
ggplot(data=penguins, aes(x=species, y= bill_length_mm, color=species)) +
  geom_boxplot()
```

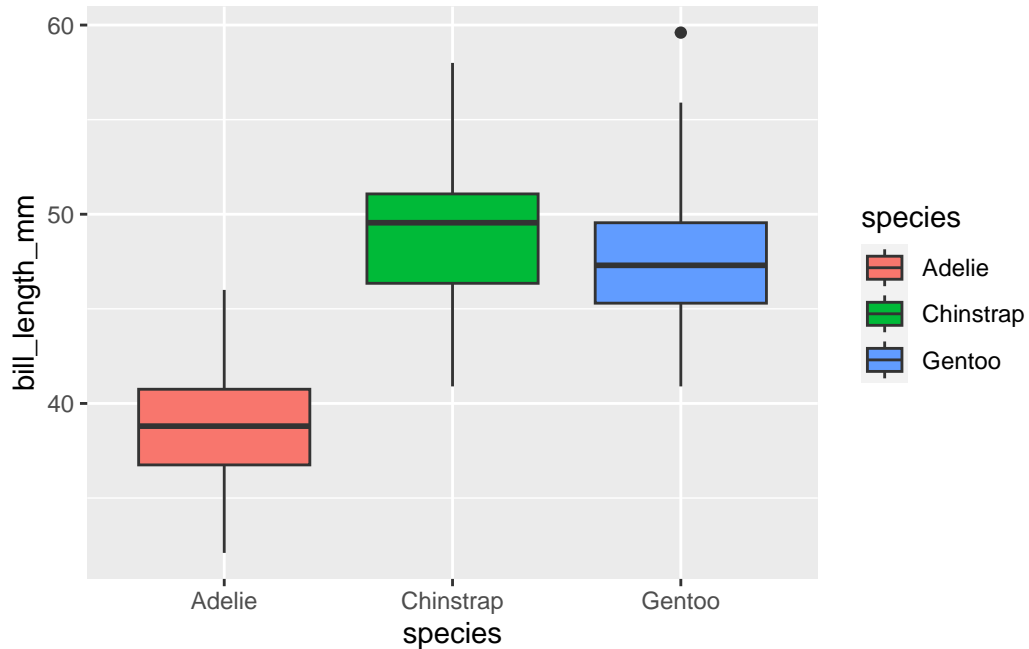
Warning: Removed 2 rows containing non-finite values (``stat_boxplot()``).



I can also change the fill of the boxplots

```
ggplot(data=penguins, aes(x=species, y= bill_length_mm, fill=species)) +  
  geom_boxplot()
```

Warning: Removed 2 rows containing non-finite values (`stat_boxplot()`).



Manual Color Change We can also change colors manually by using one of many options within ggplot. `scale_color_manual` (or `scale_fill_manual`) is the easiest. We simply define colors we want to use by name or hexcode.

```
ggplot(data=penguins, aes(x=species, y= bill_length_mm)) +
  geom_boxplot(aes(fill=species))+
  scale_fill_manual(values=c('red', 'black', 'blue'))
```

Warning: Removed 2 rows containing non-finite values (``stat_boxplot()``).