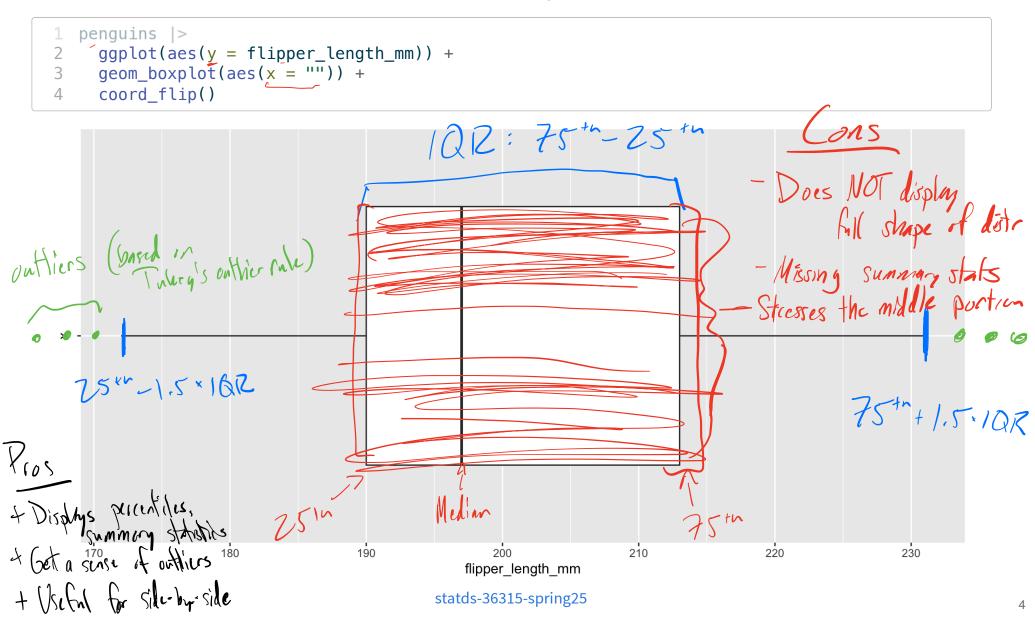
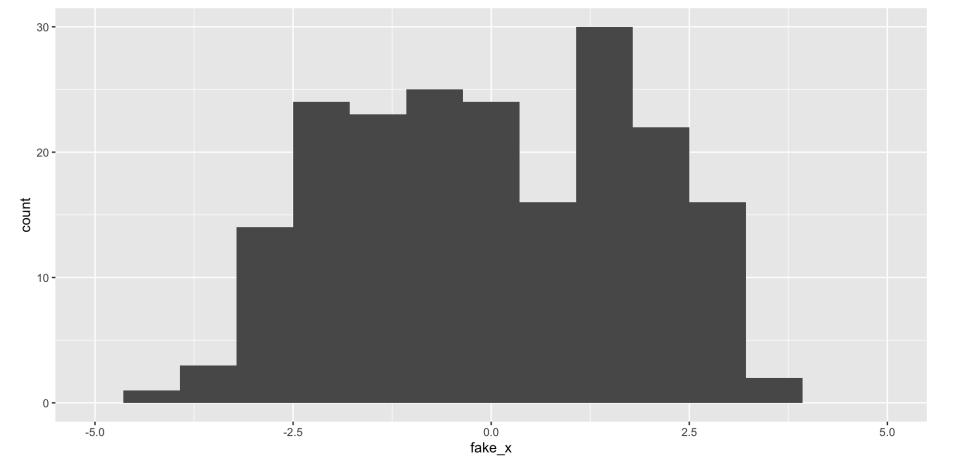
Box plots visualize summary statistics

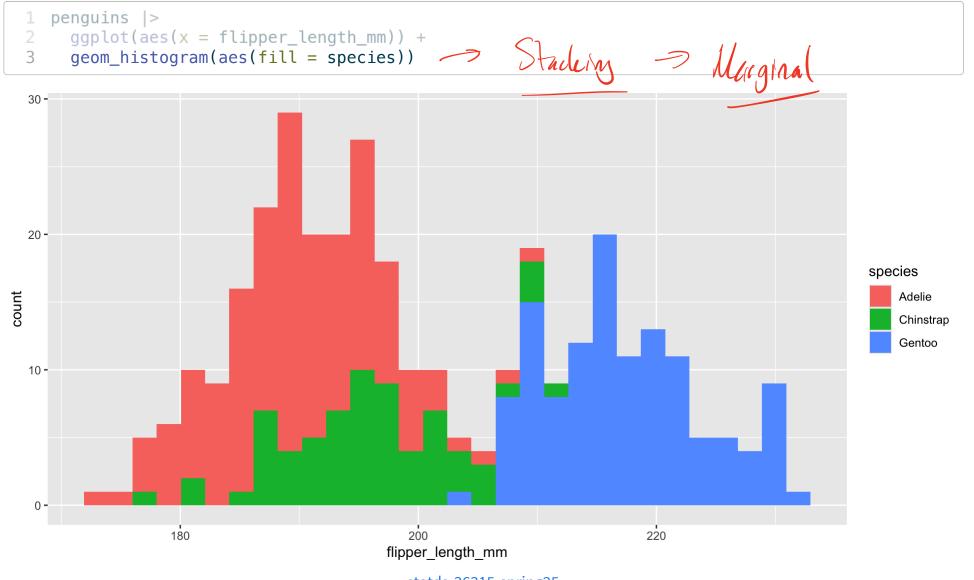


What happens as we change the number of bins?

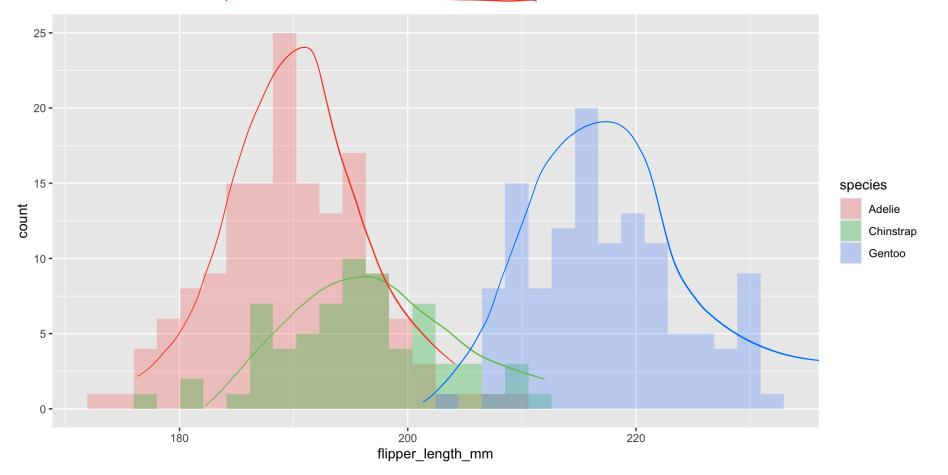
```
1 fake_data |>
2   ggplot(aes(x = fake_x)) +
3   geom_histogram(bins = 15) +
4   scale_x_continuous(limits = c(-5, 5))
```



What about displaying conditional distributions?

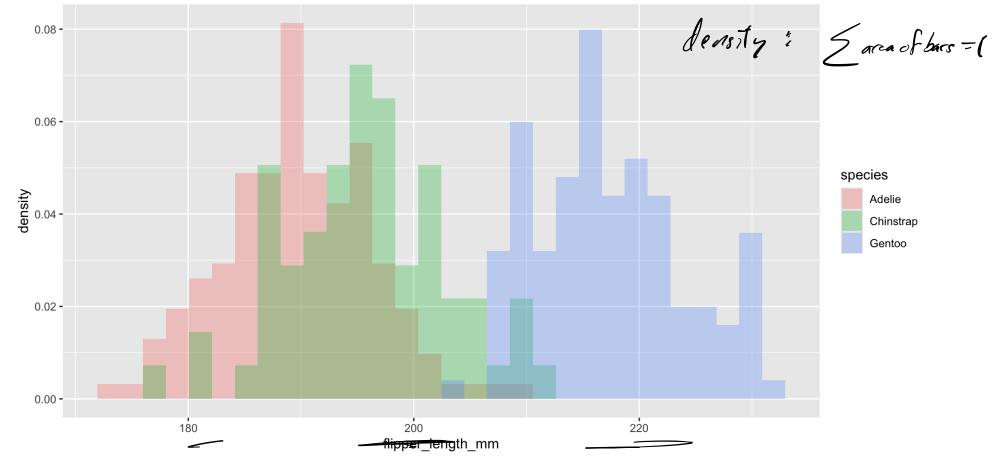


What about displaying conditional distributions?



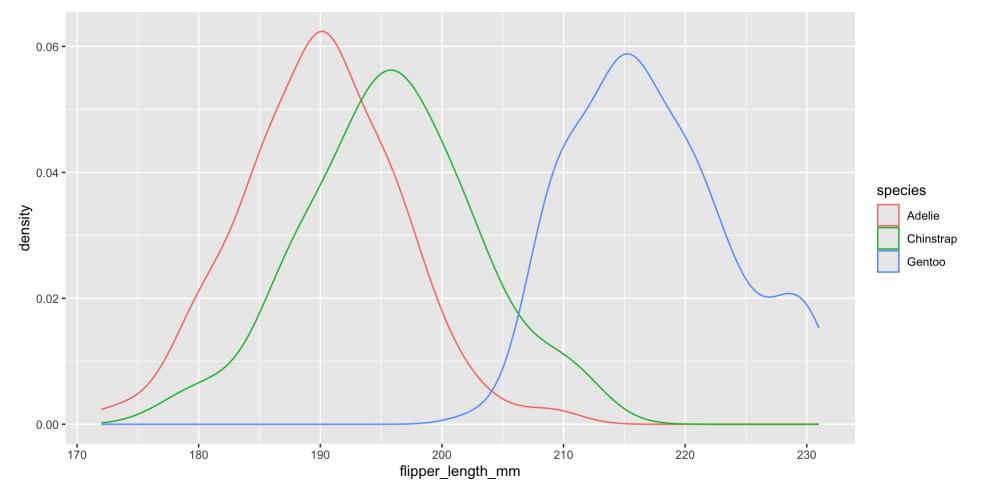
Normalize histogram frequencies with density

```
penguins |>
ggplot(aes(x = flipper_length_mm)) +
geom_histogram(aes(y = after_stat(density), fill = species),
position = "identity", alpha = 0.3)
```



Can use density curves instead

```
1 penguins |>
2   ggplot(aes(x = flipper_length_mm)) +
3   geom_density(aes(color = species))
```



We should NOT fill the density curves

```
1 penguins |>
2   ggplot(aes(x = flipper_length_mm)) +
3   geom_density(aes(fill = species), alpha = .3)
```

