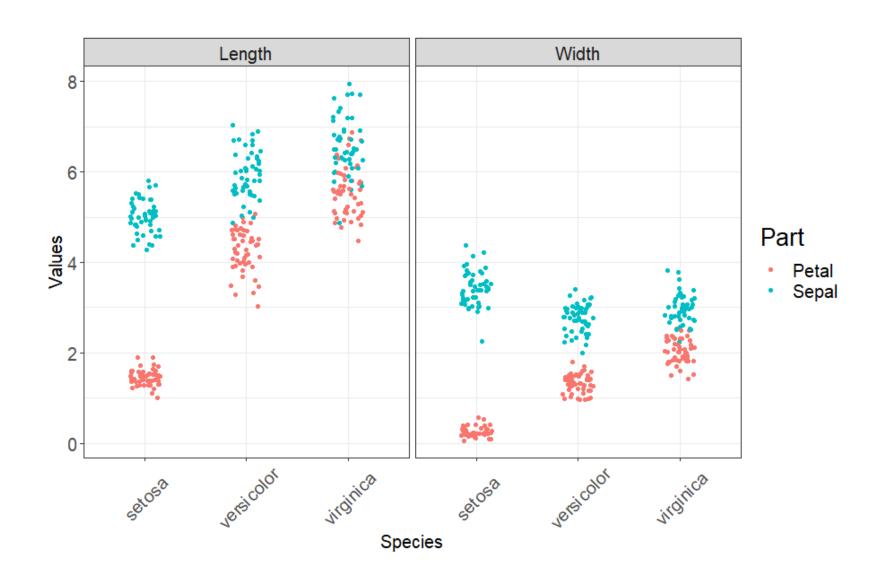
Aesthetics:



Length Width Species

Aesthetics:

1. x axis

Part

- Petal
- Sepal

Length Width 6 Values 4 2 versicolor Species

Aesthetics:

- 1. x axis
- 2. y axis

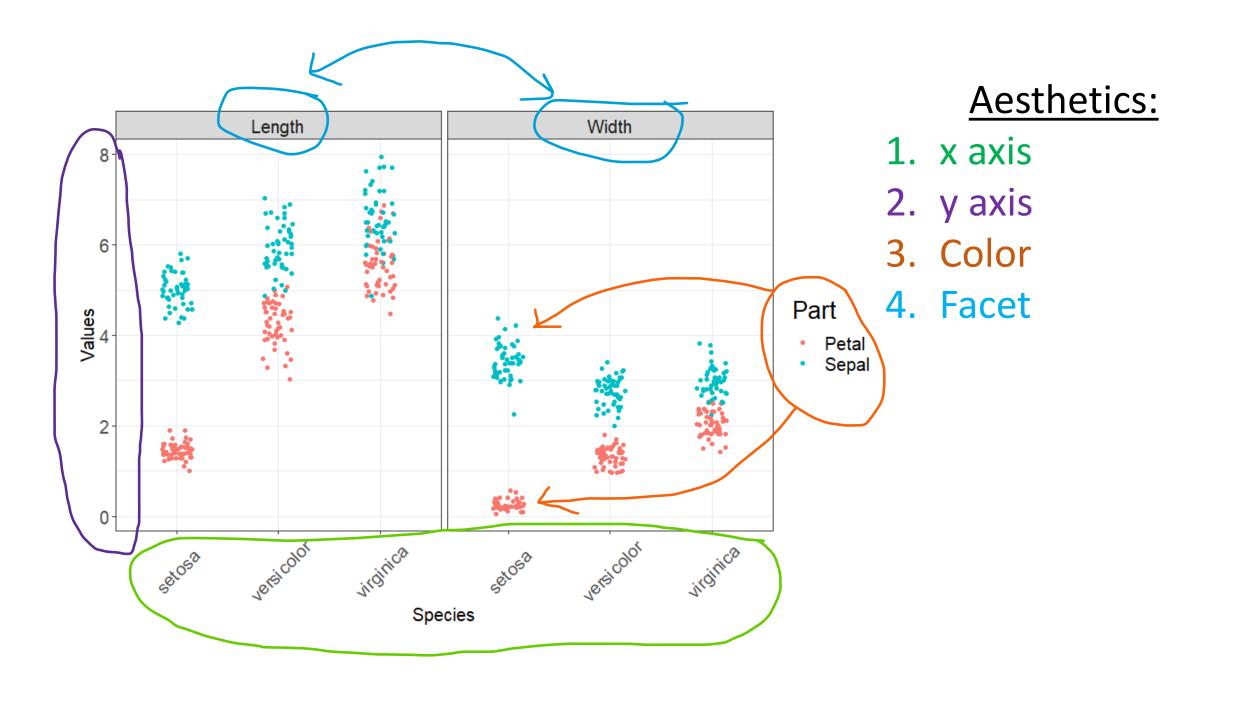
Part

- Petal
- Sepal

Length Width 6 Part Values 4 Petal Sepal versicolor Species

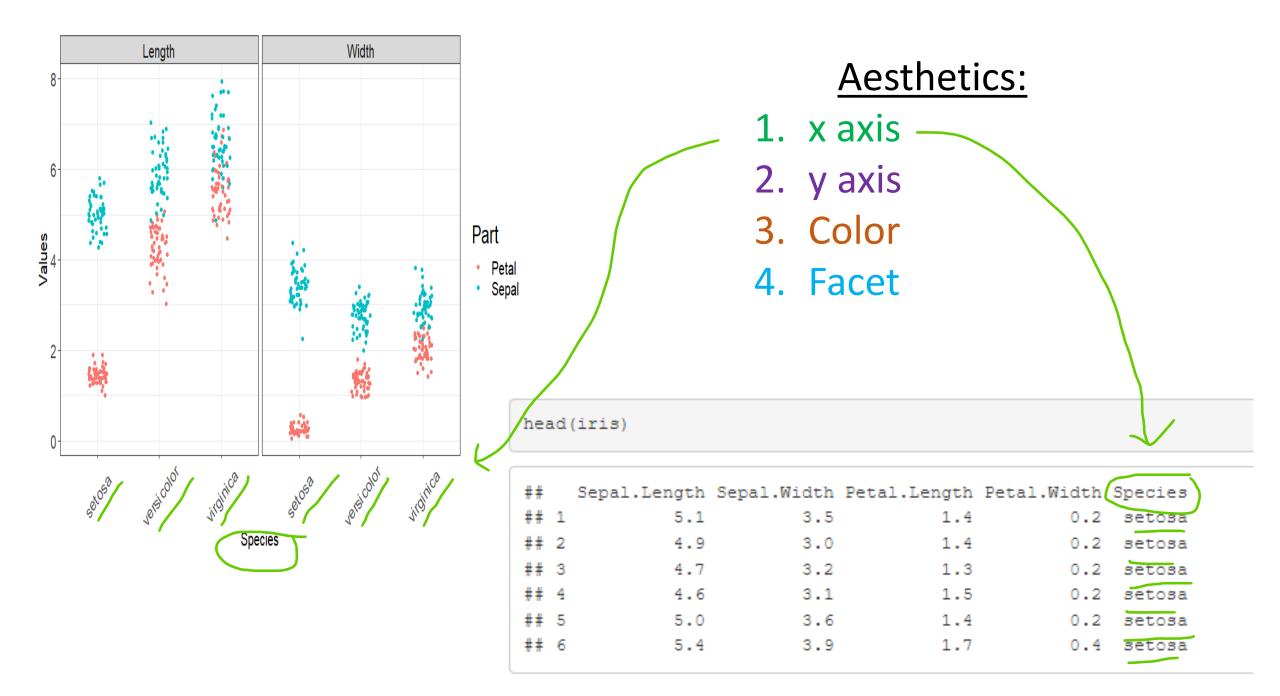
Aesthetics:

- 1. x axis
- 2. y axis
- 3. Color



head(iris)

```
## Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 1
     5.1
              3.5
                      1.4
                              0.2 setosa
## 2
       4.9
               3.0
                      1.4
                              0.2 setosa
## 3
   4.7
               3.2
                      1.3
                              0.2 setosa
## 4 4.6 3.1 1.5
                              0.2 setosa
## 5 5.0 3.6 1.4
                              0.2 setosa
## 6
       5.4
               3.9
                      1.7
                              0.4 setosa
```

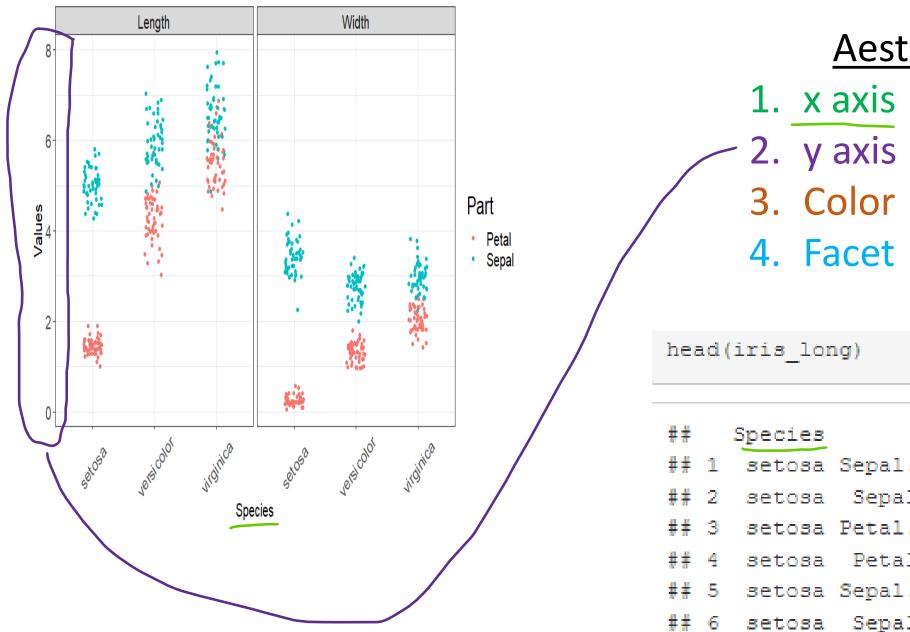


head(iris)

##		Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
##	1	5.1	3.5	1.4	0.2	setosa
##	2	4.9	3.0	1.4	0.2	setosa
##		4.7	3.2	1.3	0.2	setosa
##	4	4.6	3.1	1.5	0.2	setosa
##	5	5.0	3.6	1.4	0.2	setosa
##	6	5.4	3.9	1.7	0.4	setosa
						,

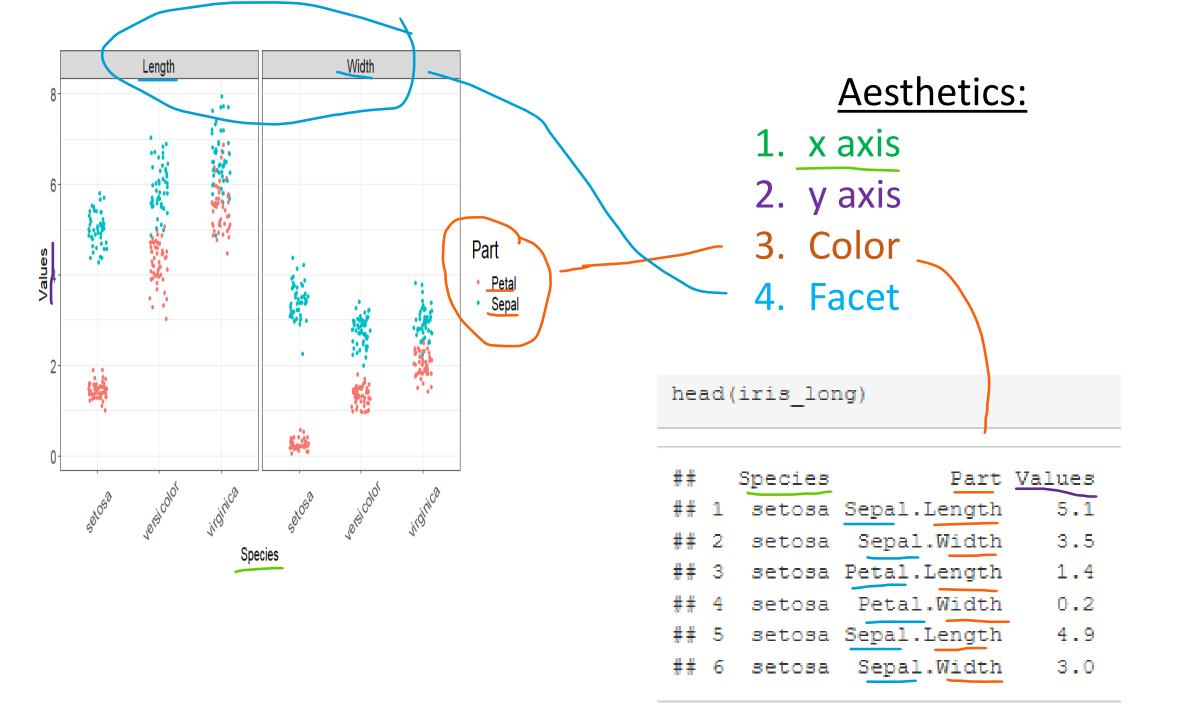
head(iris_long)

##		Species	Part	Va	lues
##	1	setosa	Sepal.Length		5.1
##	2	setosa	Sepal.Width		3.5
##	3	setosa	Petal.Length		1.4
##	4	setosa	Petal.Width	- 1	0.2
##	5	setosa	Sepal.Length	- 1	4.9
##	6	setosa	Sepal.Width		3.0



Aesthetics:

```
Part Values
setosa Sepal.Length
                      3.5
setosa Sepal.Width
setosa Petal.Length
                    1.4
                      0.2
setosa Petal.Width
                      4.9
setosa Sepal.Length
                       3.0
setosa Sepal.Width
```



```
iris sep <- separate(iris long,
                              col = "Part",
                              into = c("Part", "Measurement"),
                             sep = " \setminus \ .")
head(iris_long)
                                     head(iris sep)
##
    Species
                  Part Values
                                     ##
                                         Species Part Measurement Values
    setosa Sepal.Length 5.1
                                     ## 1 setosa Sepal
                                                          Length
                                                                   5.1
## 2
    setosa Sepal.Width 3.5
                                     ## 2 setosa Sepal
                                                           Width 3.5
    setosa Petal.Length
                         1.4
                                     ## 3 setosa Petal
                                                          Length 1.4
## 4
    setosa Petal.Width 0.2
                                     ## 4 setosa Petal
                                                                   0.2
                                                           Width
    setosa Sepal.Length
                         4.9
                                     ## 5 setosa Sepal
                                                          Length
                                                                   4.9
## 6
                         3.0
    setosa Sepal.Width
                                     ## 6 setosa Sepal
                                                           Width 3.0
```

Length Width Part Petal Sepal Species

Aesthetics:

- 1. x axis
- 2. y axis
- 3. Color
- 4. Facet

head(iris_sep)

##		Species	Part	Measurement	Values
##	1	setosa	Sepal	Length	5.1
##	2	setosa	Sepal	Width	3.5
##	3	setosa	Petal	Length	1.4
##	4	setosa	Petal	Width	0.2
##	5	setosa	Sepal	Length	4.9
##	6	setosa	Sepal	Width	3.0

```
ggplot(iris_sep, aes(Species, Values, color = Part)) +
  geom_jitter(width = 0.15) +
  facet_wrap(~Measurement) + theme_bw()
```

head(iris_sep)

##		Species	Part	Measurement	Values
##	1	setosa	Sepal	Length	5.1
##	2	setosa	Sepal	Width	3.5
##	3	setosa	Petal	Length	1.4
##	4	setosa	Petal	Width	0.2
##	5	setosa	Sepal	Length	4.9
##	6	setosa	Sepal	Width	3.0

