DATA VISUALIZATION IN R WITH GGVIS

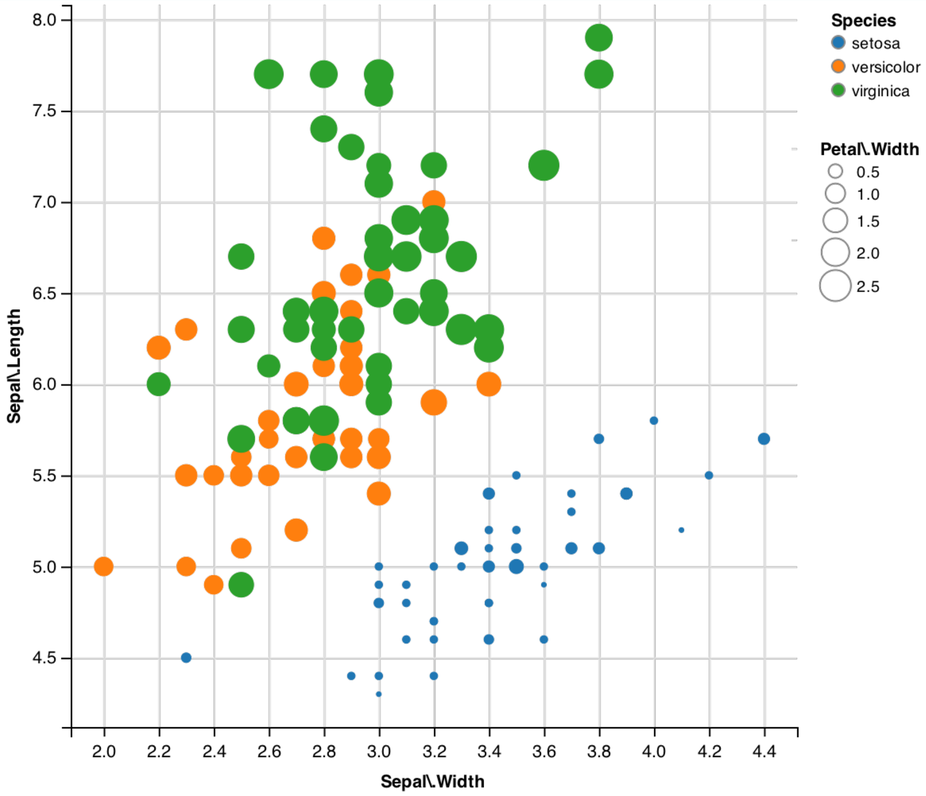
Syntax

%>%

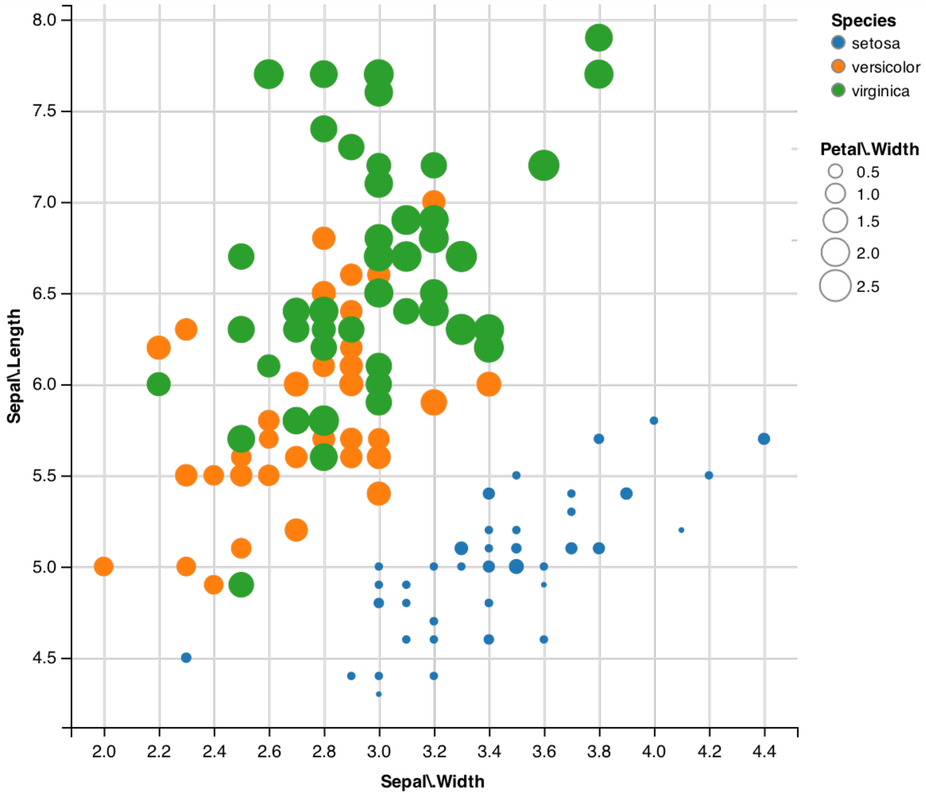
magrittr

Stefan Bache

vector
"value"
~variable

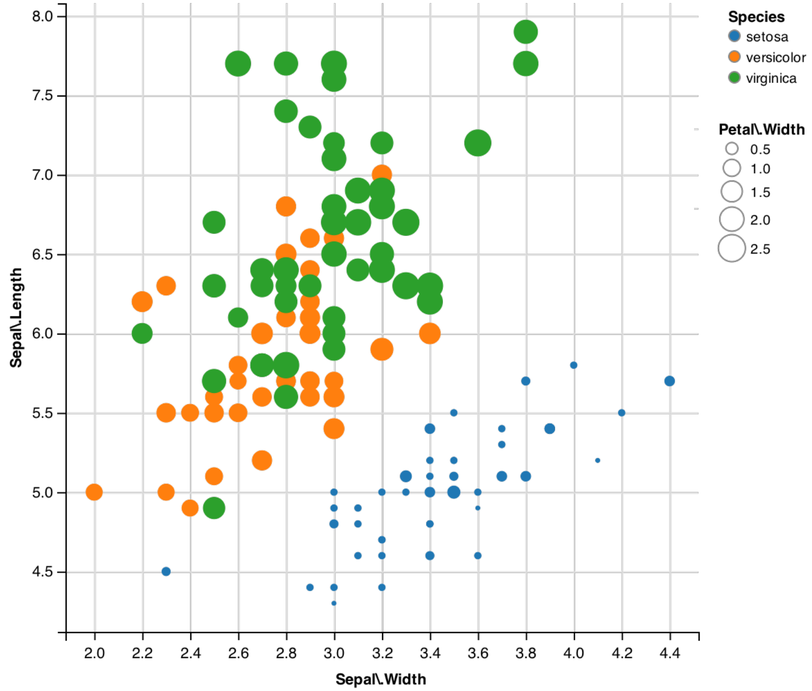


Data Space (Species)		Visual Space (Fill)
setosa	⟷	blue
versicolor	⟷	orange
virginica	⟷	green



Data Space (Petal.Width)		Visual Space (Size)
0.5	⟷	10 pixels
1.0	⟷	85 pixels
1.5	⟷	160 pixels
2.0	⟷	235 pixels
2.5	⟷	310 pixels

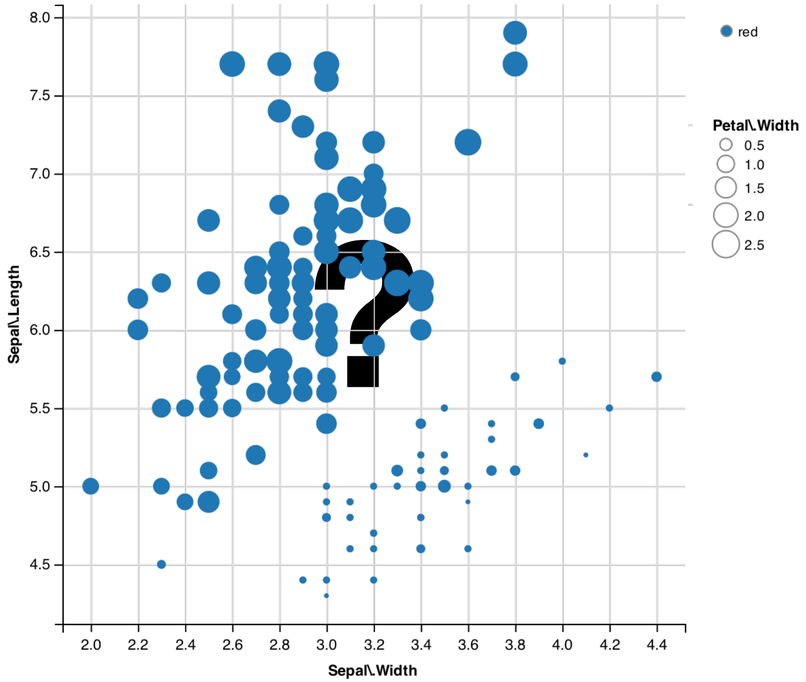
```
iris %>%
  ggvis(x = ~Sepal.Width,
        y = ~Sepal.Length,
        fill = ~Species,
        size = ~Petal.Width
        ) %>%
  layer_points()
```



=

Data Space (Species)		Visual Space (Fill)
setosa	⟷	blue
versicolor	⟷	orange
virginica	⟷	green

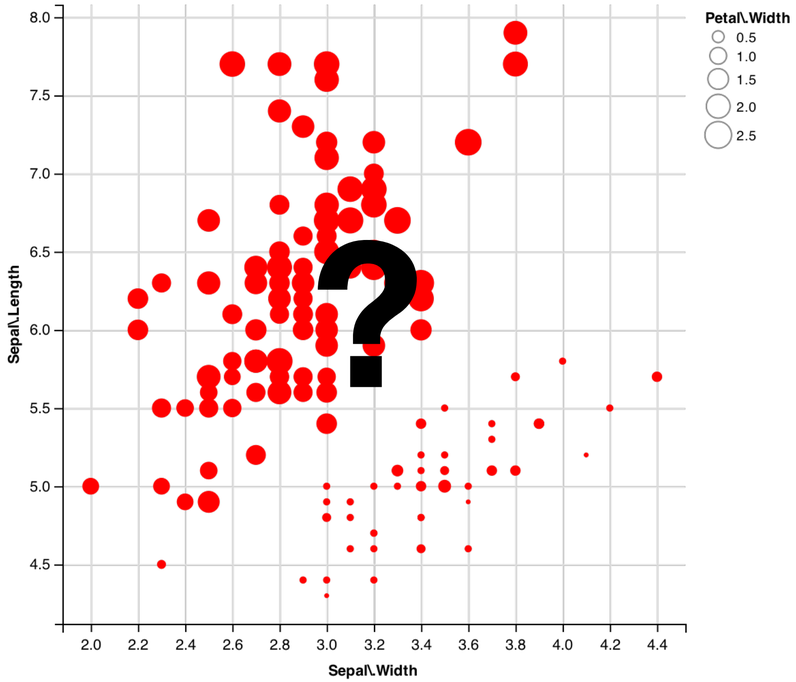
```
iris %>%
  ggvis(x = ~Sepal.Width,
        y = ~Sepal.Length,
        fill = "red",
        size = ~Petal.Width
        ) %>%
  layer_points()
```



=

Data Space	Visual Space (Fill)
red	blue

```
iris %>%
  ggvis(x = ~Sepal.Width,
        y = ~Sepal.Length,
        fill := "red",
        size = ~Petal.Width
        ) %>%
  layer_points()
```



=

Data Space

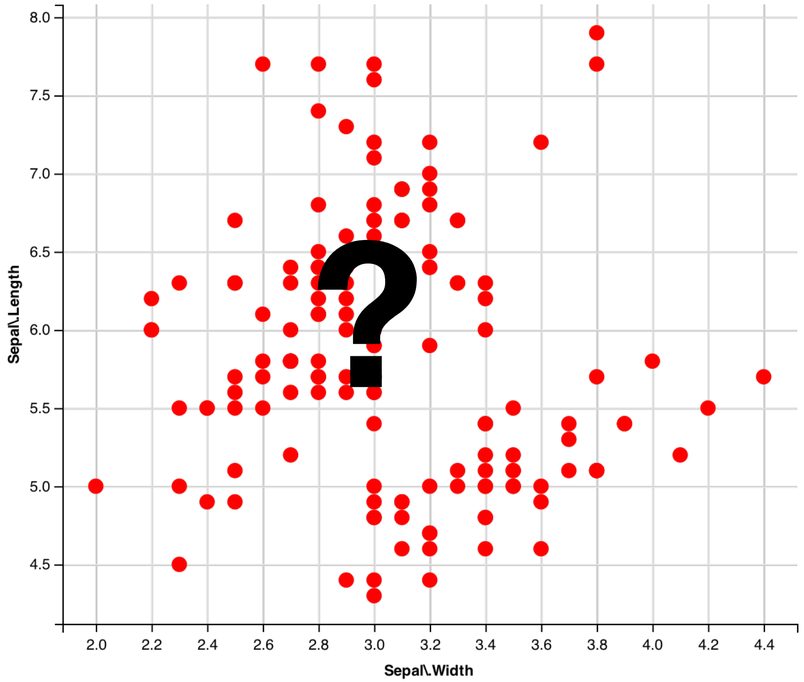
:=

Visual Space

(Fill)

red

```
iris %>%
  ggvis(x = ~Sepal.Width,
        y = ~Sepal.Length,
        fill := "red",
        size := 100
        ) %>%
  layer_points()
```



=

Data Space

:=

Visual Space

(Fill)

red

(Size)

100 pixels

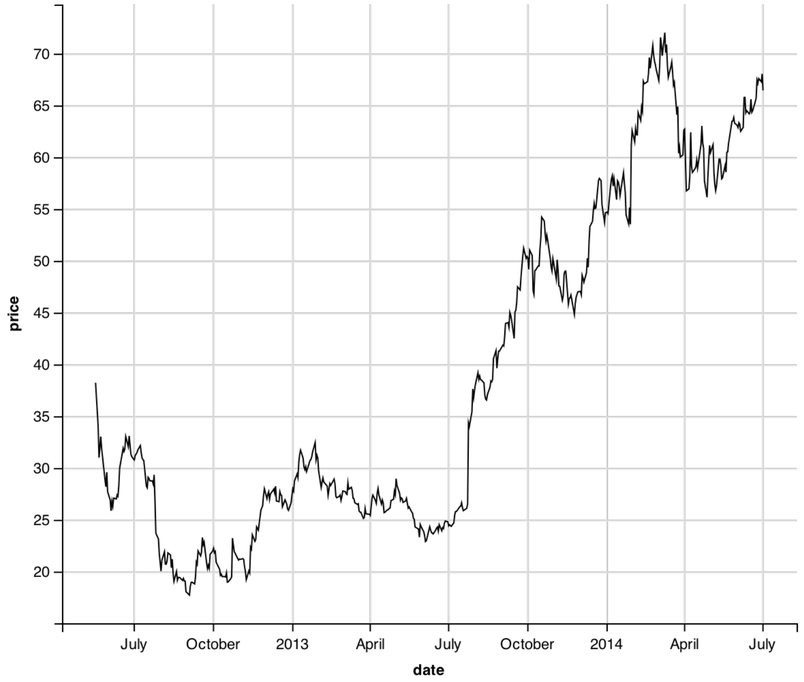
=	:=
maps	**sets**
data values	manual values

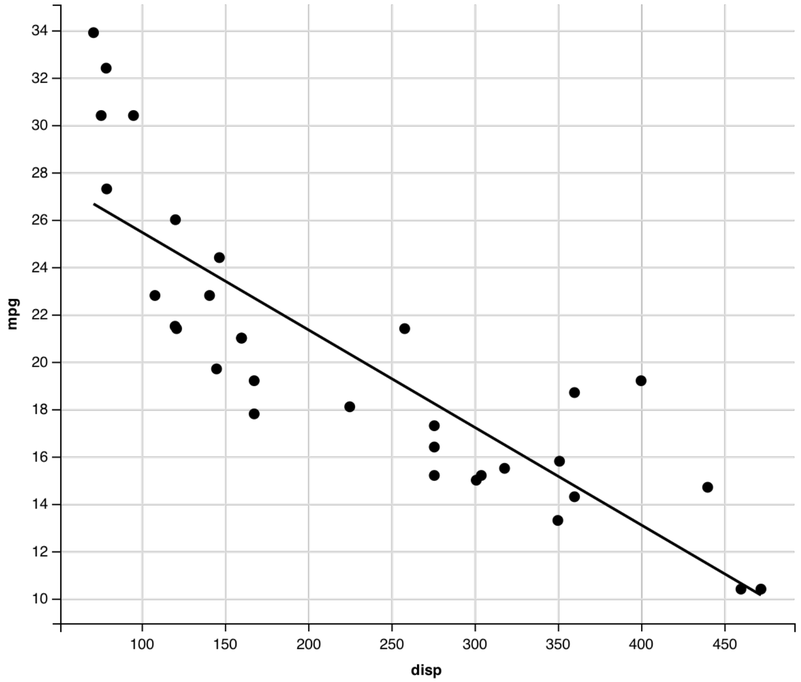
DATA VISUALIZATION IN R WITH GGVIS

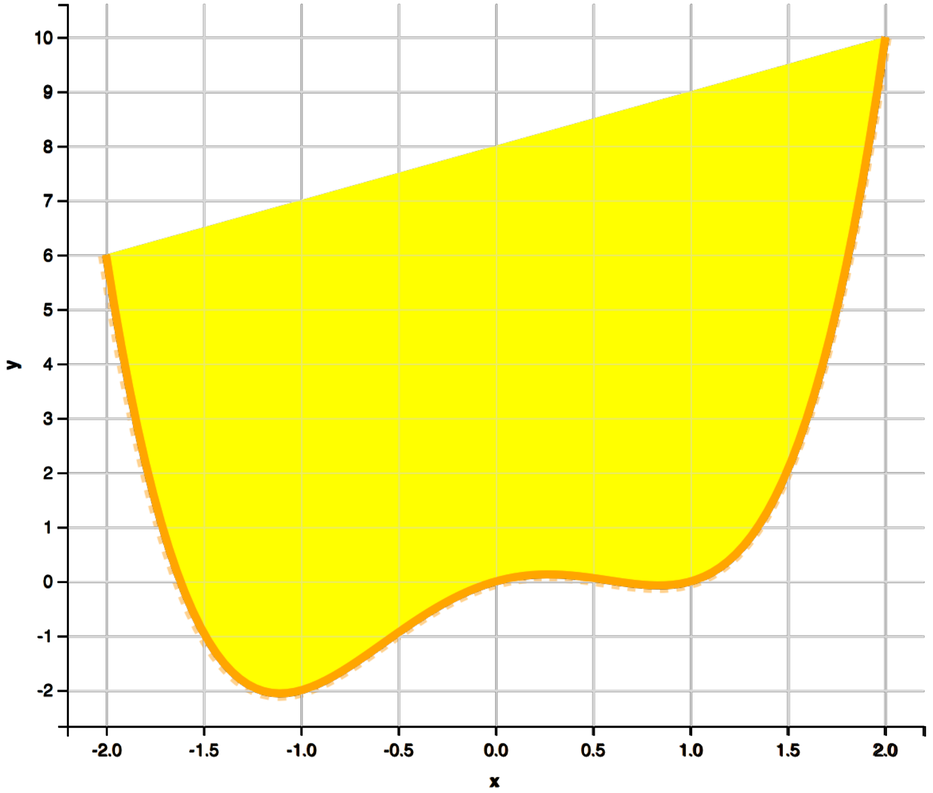
Let's practice!

DATA VISUALIZATION IN R WITH GGVIS

The line, a special type of mark

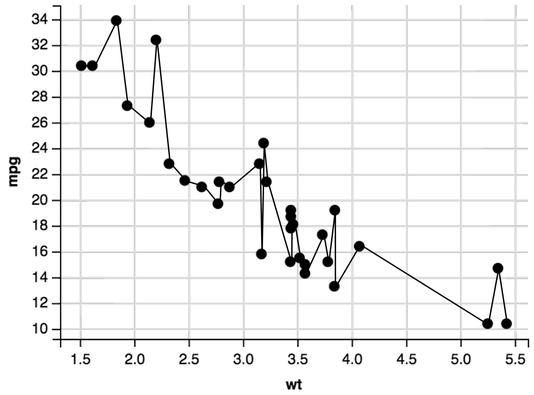

price
70
65
60
55
50
45
40
35
30
25
20
July
October
2013
April
July
October
2014
April
July
date


mpg
34
32
30
28
26
24
22
20
18
16
14
12
10
100
150
200
250
300
350
400
450
disp

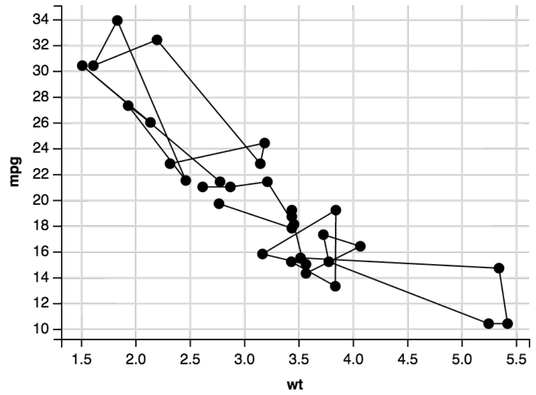


stroke
strokeWidth
strokeOpacity
strokeDash
fill
fillOpacity

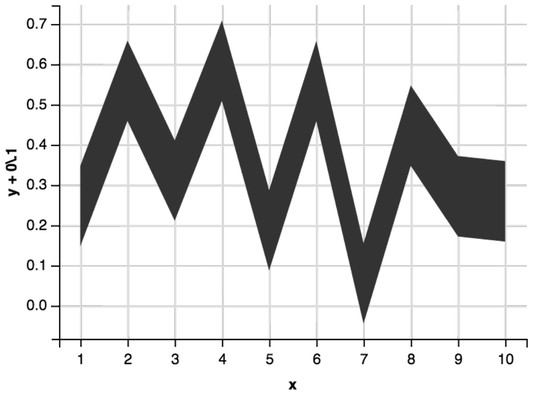
lines

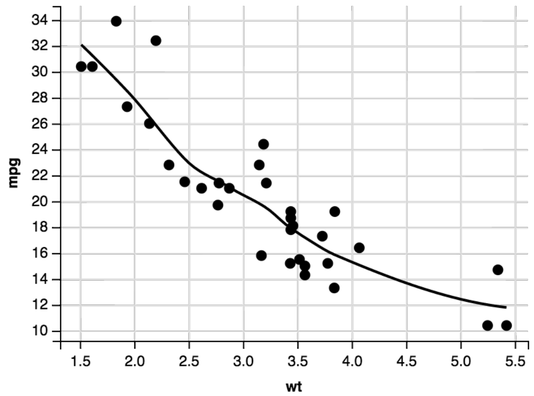


paths

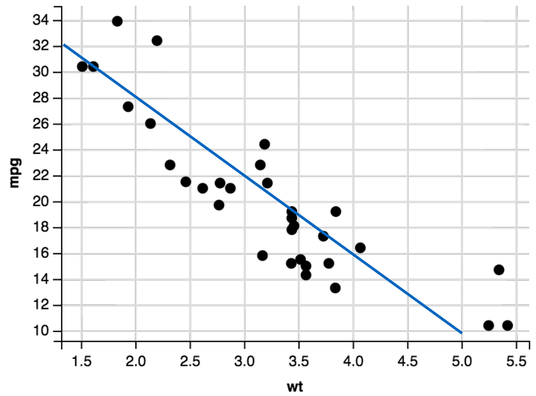


ribbons





smooths



model_predictions

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Let's practice!