

Bellevue University

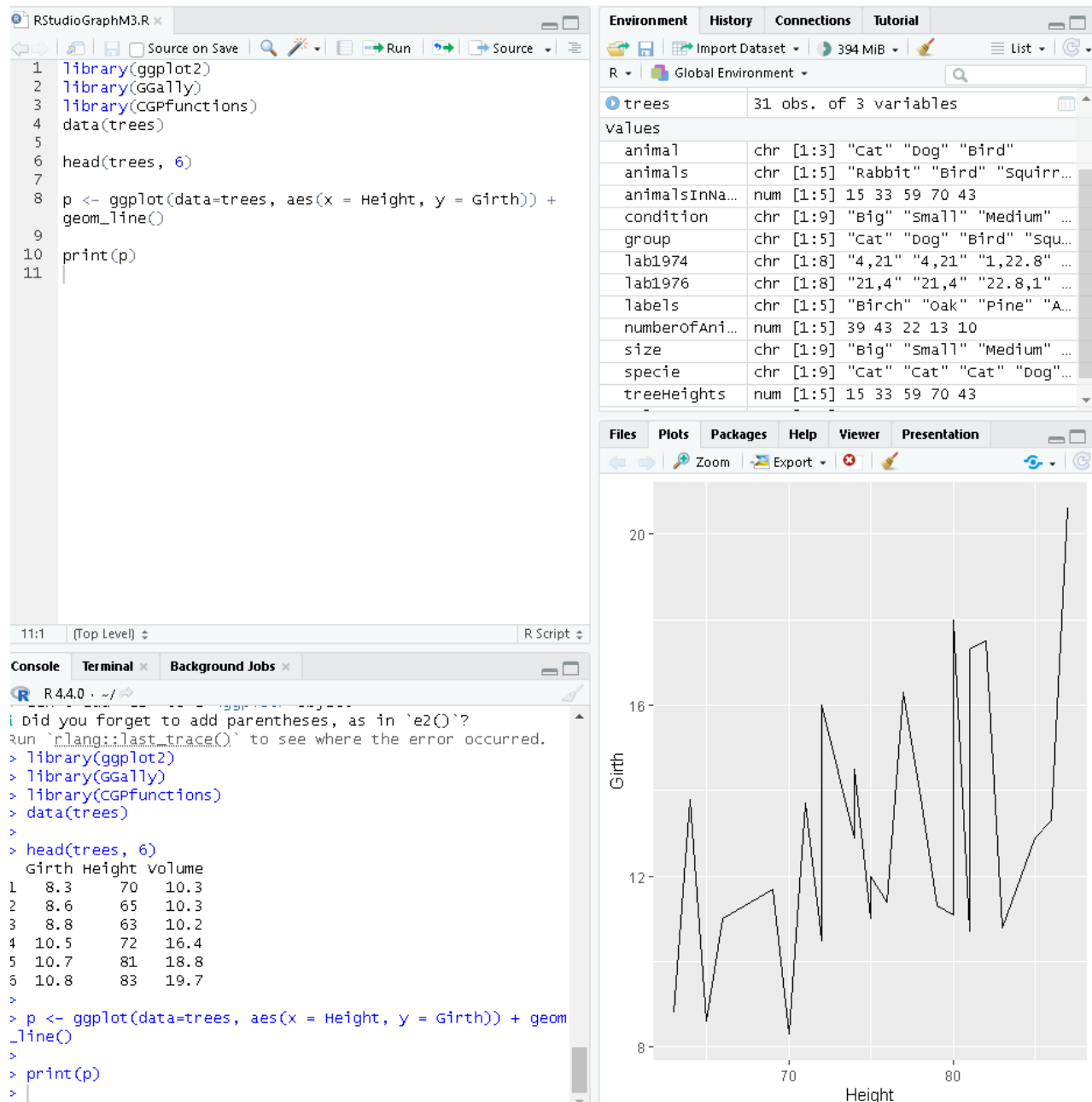
M6 – Graphing

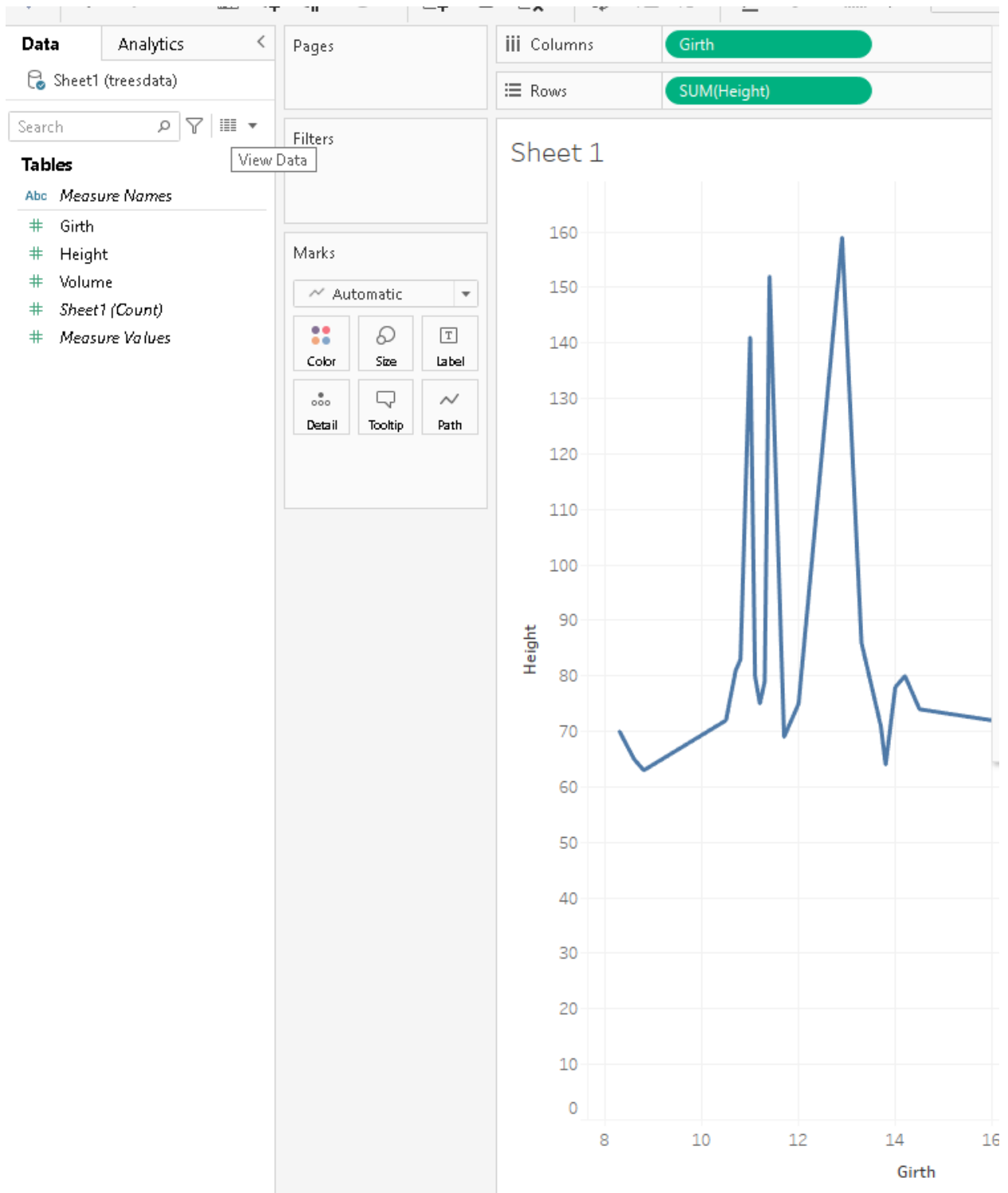
Timothy Jelinek

DSC310-T301

7/10/2024

Line Graph





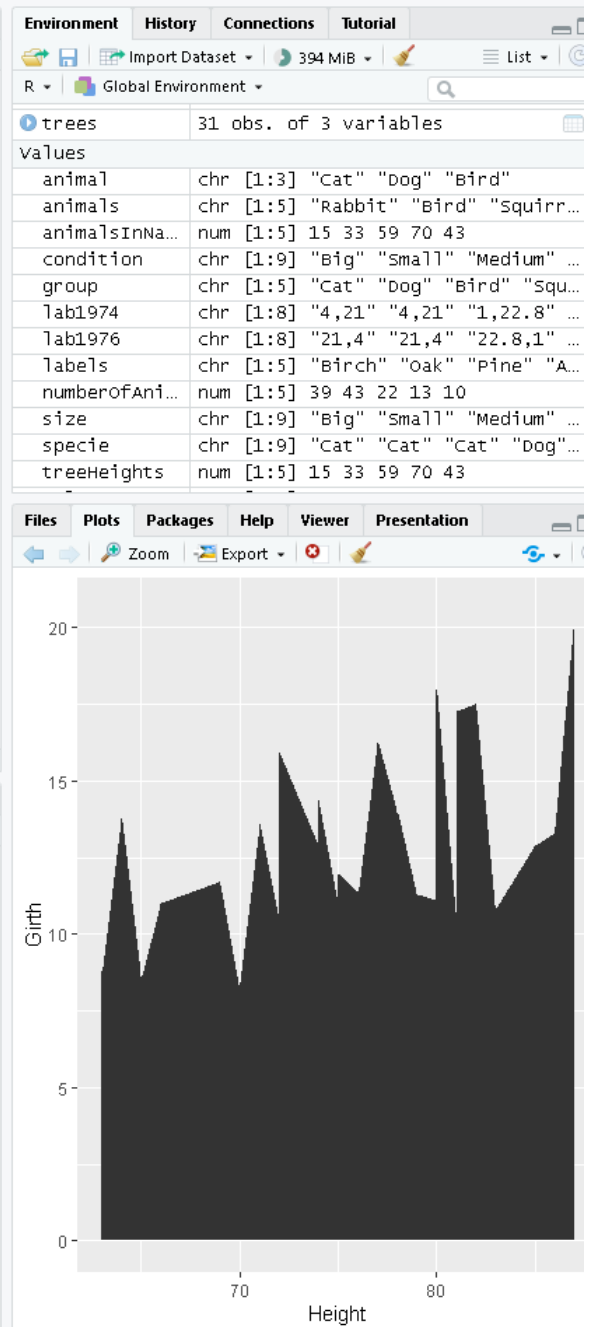
Area Graph

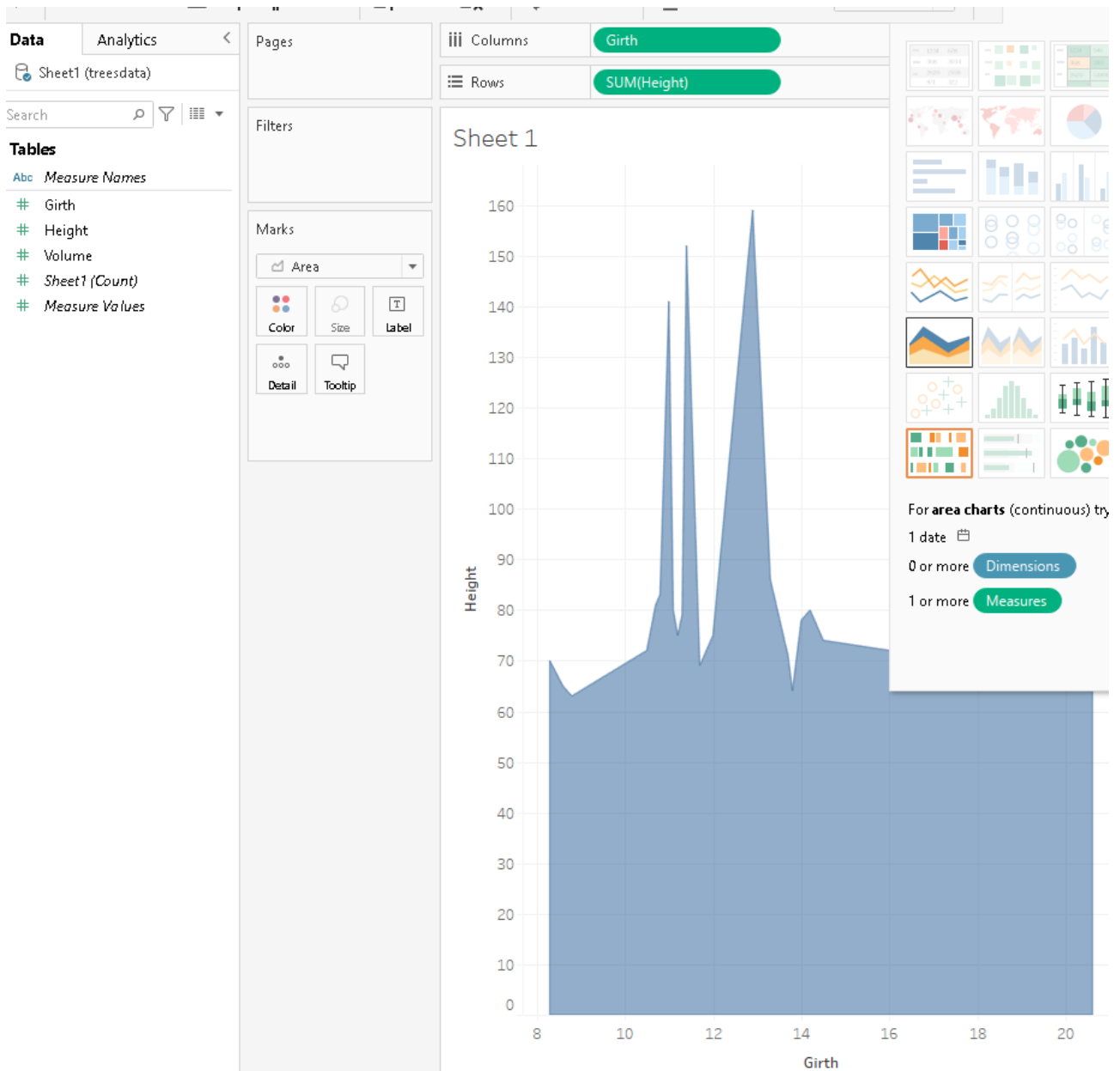
```
RStudioGraphM3.R
1 library(ggplot2)
2 library(GGally)
3 library(CGPFfunctions)
4 data(trees)
5
6 head(trees, 6)
7
8 p <- ggplot(data=trees, aes(x = Height, y = Girth)) +
9   geom_area()
10 print(p)
11
```

11:1 | [Top Level] | R Script

Console | Terminal | Background Jobs

```
R 4.4.0 · ~/
>
> print(p)
> library(ggplot2)
> library(GGally)
> library(CGPFfunctions)
> data(trees)
>
> head(trees, 6)
  Girth Height volume
1   8.3    70   10.3
2   8.6    65   10.3
3   8.8    63   10.2
4  10.5    72   16.4
5  10.7    81   18.8
6  10.8    83   19.7
>
> p <- ggplot(data=trees, aes(x = Height, y = Girth)) + geom
  _area()
>
> print(p)
>
```





Multiple Times Series Line Chart

```
RStudioGraphM3.R
1 library(ggplot2)
2 library(GGally)
3 library(CGPfunctions)
4 data(trees)
5
6 head(trees, 6)
7
8 p <- ggplot(data=trees, aes(x = Height, y = Girth)) +
9   geom_line() + xlab("")
10 print(p)
11
```

11:1 (Top Level) R Script

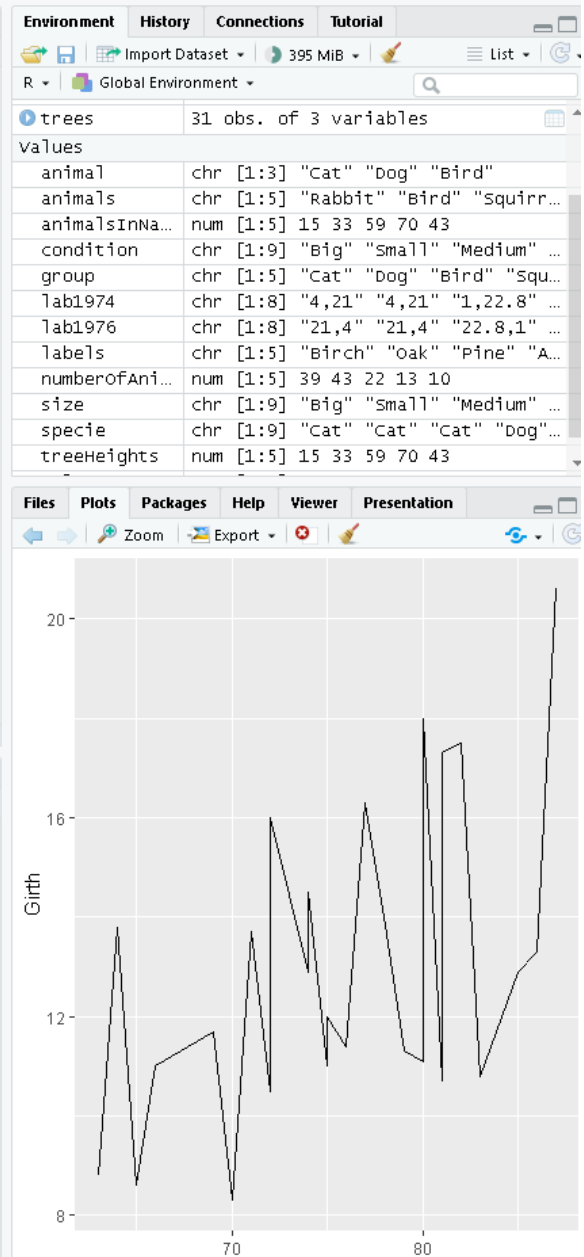
Console Terminal Background Jobs

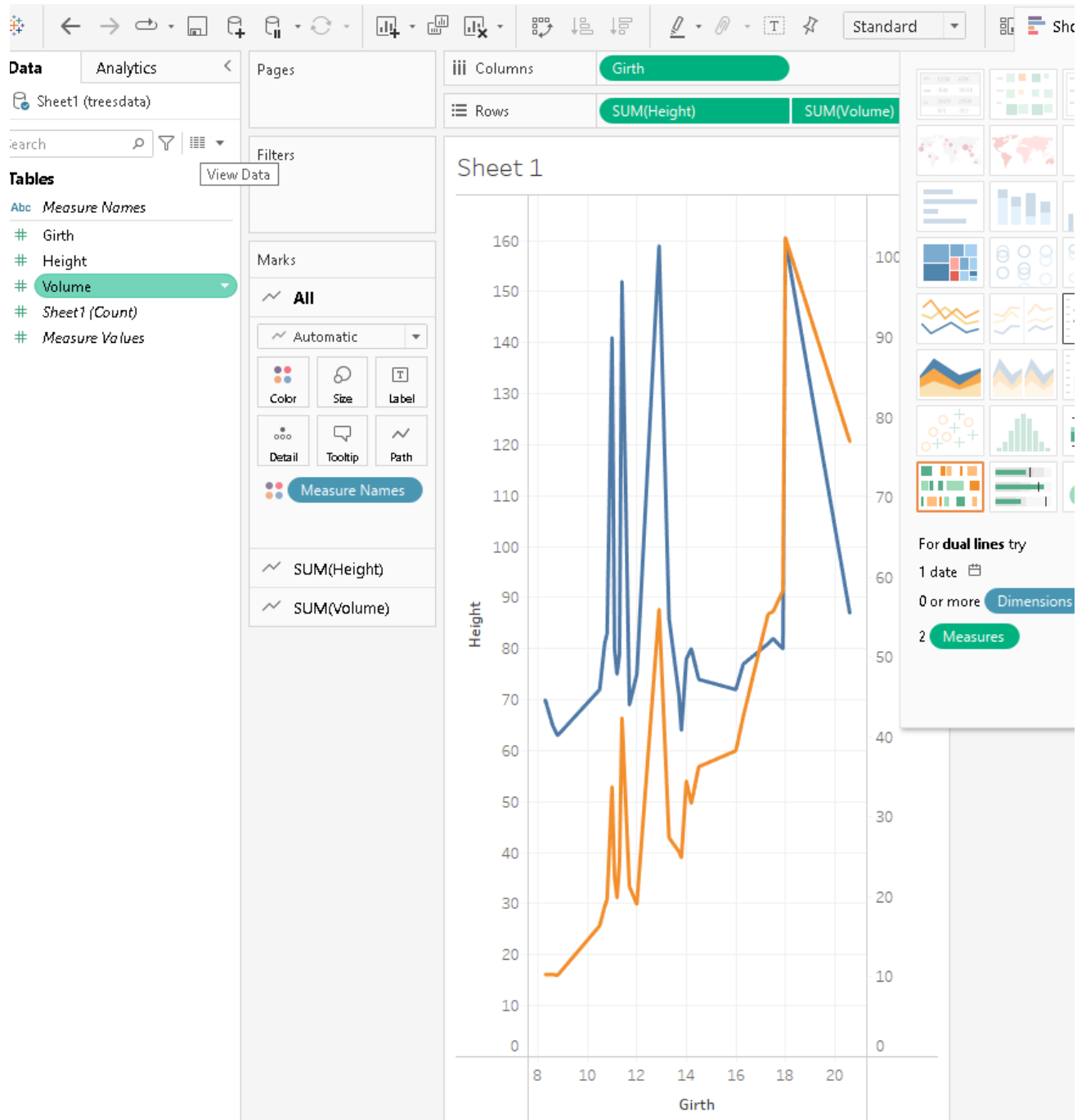
R 4.4.0 ~ /

```
· print(p)
· library(ggplot2)
· library(GGally)
· library(CGPfunctions)
· data(trees)

· head(trees, 6)
Girth Height Volume
· 8.3 70 10.3
· 8.6 65 10.3
· 8.8 63 10.2
· 10.5 72 16.4
· 10.7 81 18.8
· 10.8 83 19.7

· p <- ggplot(data=trees, aes(x = Height, y = Girth)) + geom
· line() + xlab("")
· print(p)
·
```





LOESS

```
RStudioGraphM3.R x
1 library(ggplot2)
2 library(GGally)
3 library(CGPFfunctions)
4 data(trees)
5
6 head(trees, 6)
7
8 p <- ggplot(data = trees, aes(x = Height, y = Girth)) +
9   geom_point() + geom_smooth(method = "loess", size = 1.5)
10 print(p)
11
```

11:1 | [Top Level] | R Script

Console | Terminal | Background Jobs

R 4.4.0 · ~/

this warning was generated.

```
> library(ggplot2)
> library(GGally)
> library(CGPFfunctions)
> data(trees)
>
> head(trees, 6)
  Girth Height volume
1   8.3    70   10.3
2   8.6    65   10.3
3   8.8    63   10.2
4  10.5    72   16.4
5  10.7    81   18.8
6  10.8    83   19.7
>
> p <- ggplot(data = trees, aes(x = Height, y = Girth)) +
>   geom_point() + geom_smooth(method = "loess", size = 1.5)
>
> print(p)
'geom_smooth()' using formula = 'y ~ x'
>
```

