

Bellevue University

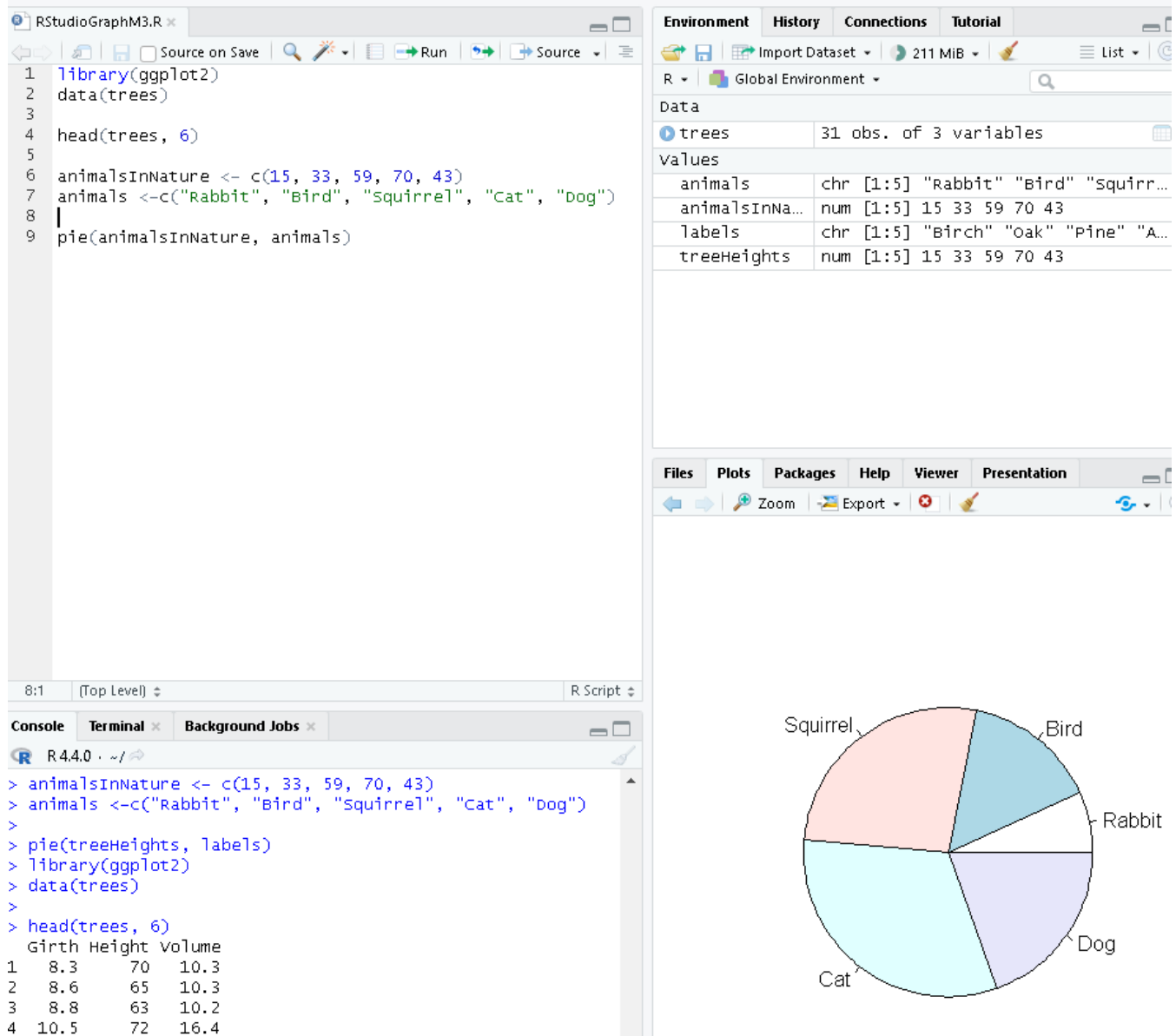
## M4 – Graphing

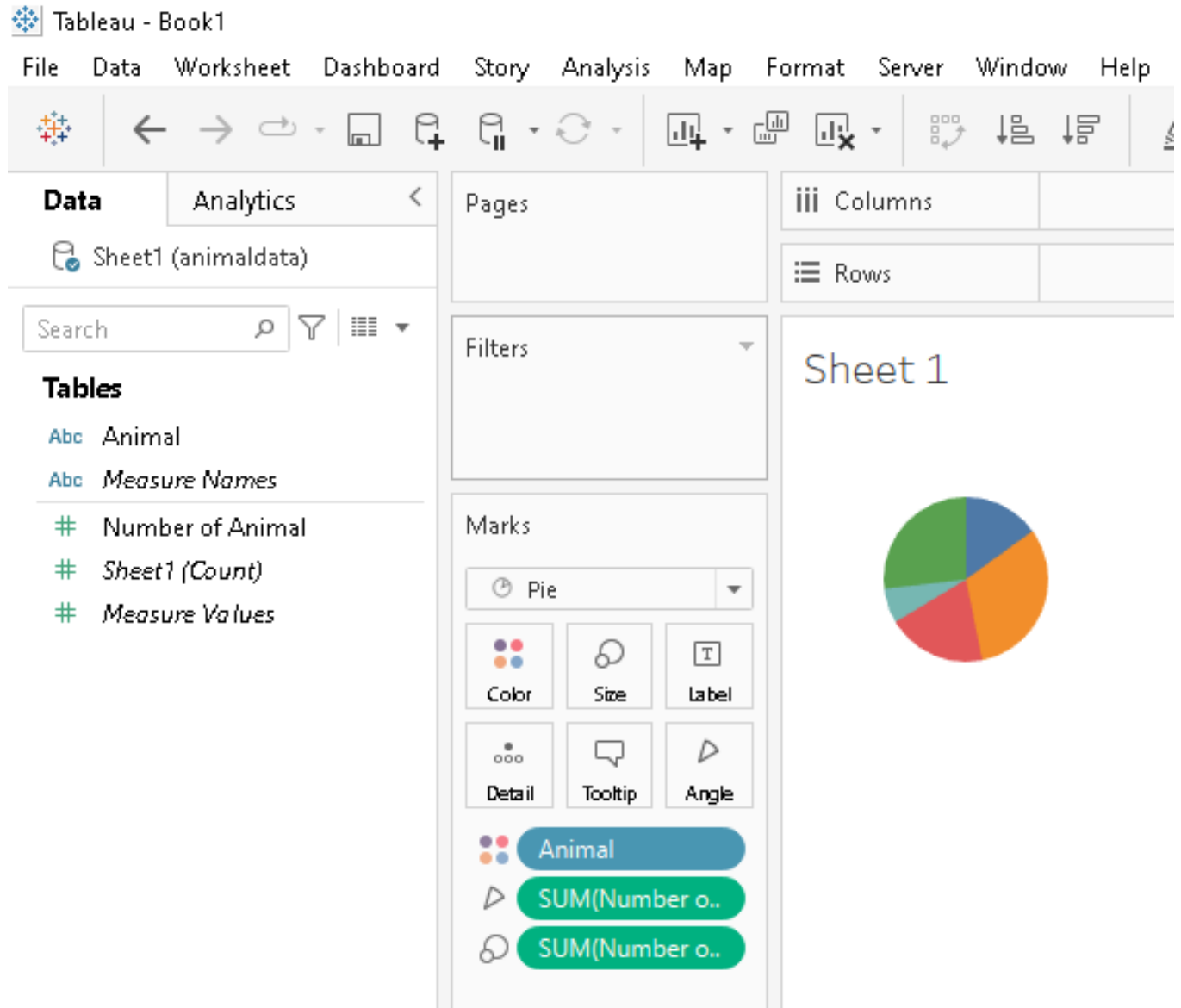
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DSC310-T301

6/29/2024

## Pie Chart





## Stacked Bar Chart

```

RStudioGraphM3.R x
1 library(ggplot2)
2
3 animal <- c(rep("Cat" , 3) , rep("Dog" , 3) , rep("Fish"
4 , 3))
5 size <- rep(c("Big" , "Small" , "Medium") , 3)
6 value <- abs(rnorm(9 , 0 , 15))
7 data <- data.frame(specie,condition,value)
8
9 ggplot(data, aes(fill=size, y=value, x=animal)) +
10   geom_bar(position="dodge", stat="identity")

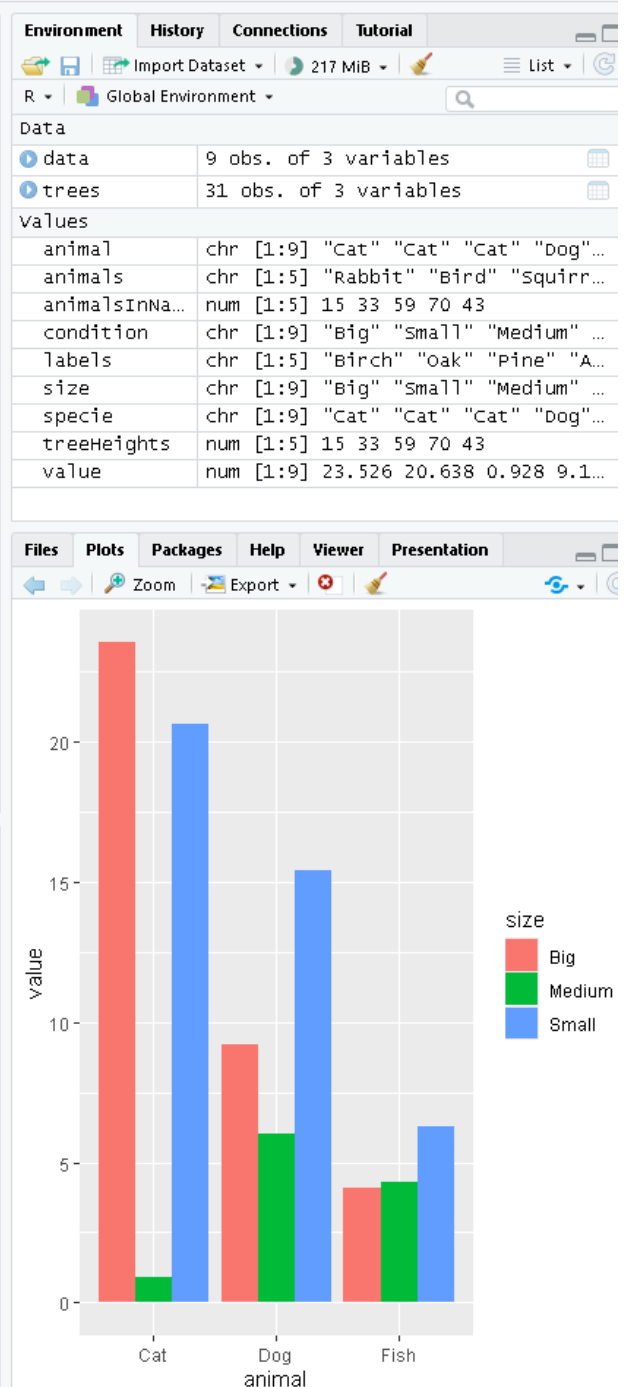
```

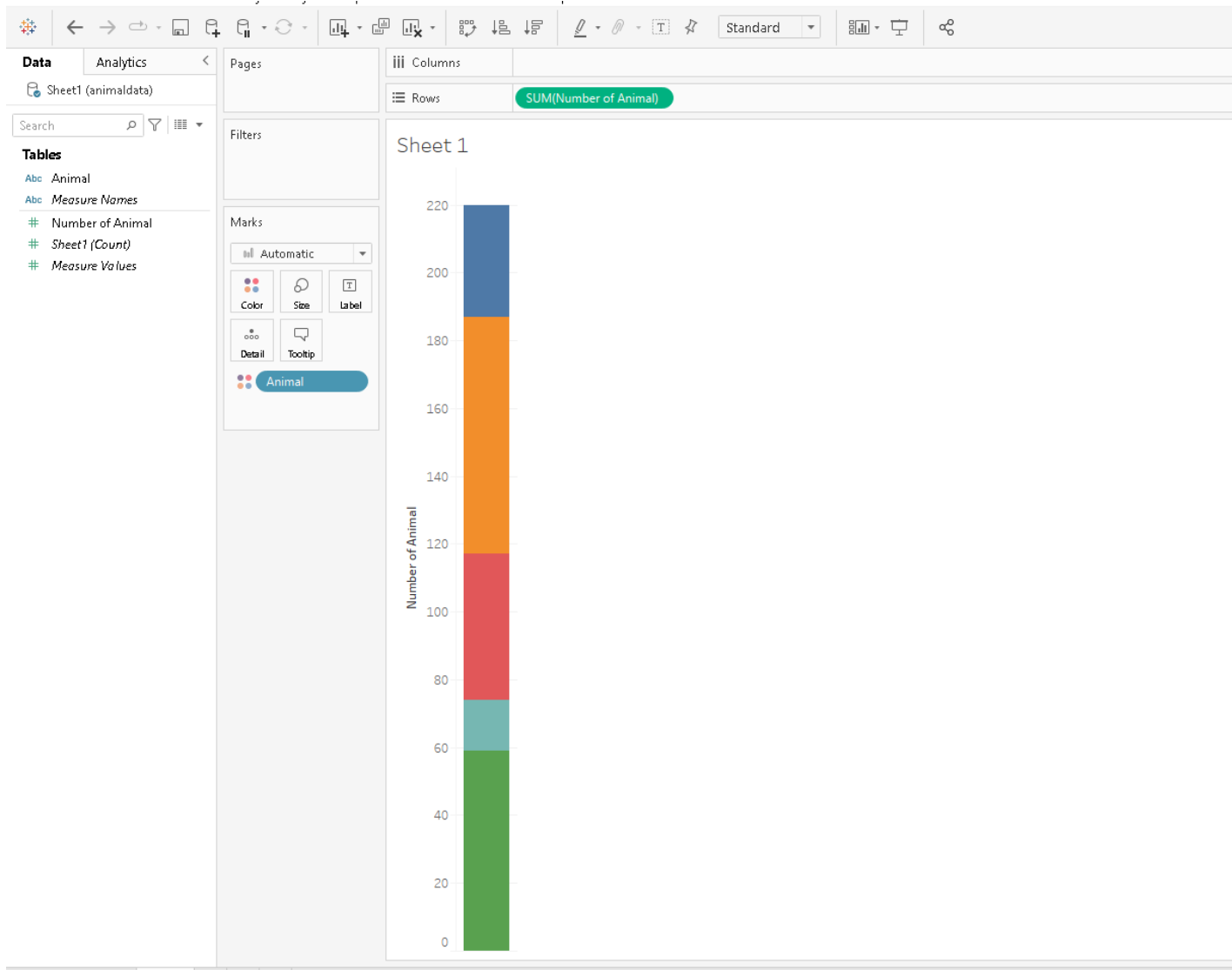
10:46 (Top Level) R Script

```

Console Terminal Background Jobs
R 4.4.0 ~ /
> specie <- c(rep("Cat" , 3) , rep("Dog" , 3) , rep("Fish" ,
3))
>
> condition <- rep(c("Big" , "Small" , "Medium") , 3)
> value <- abs(rnorm(9 , 0 , 15))
> data <- data.frame(specie,condition,value)
>
> ggplot(data, aes(fill=condition, y=value, x=specie)) +
+   geom_bar(position="dodge", stat="identity")
> library(ggplot2)
>
> animal <- c(rep("Cat" , 3) , rep("Dog" , 3) , rep("Fish" ,
3))
>
> size <- rep(c("Big" , "Small" , "Medium") , 3)
> value <- abs(rnorm(9 , 0 , 15))
> data <- data.frame(specie,condition,value)
>
> ggplot(data, aes(fill=size, y=value, x=animal)) +
+   geom_bar(position="dodge", stat="identity")
>

```





Treemap

```

1 library(treemap)
2
3 group <- c("Cat","dog","Bird", "Squirrel", "Rabbit")
4 value <- c(39, 43, 22, 13, 10)
5 data <- data.frame(group,value)
6
7 treemap(data,
8         index="group",
9         vsize="value",
10        type="index")
11

```

11:2 (Top Level) R Script

```

Console Terminal Background Jobs
R 4.4.0 ~ /

>
> treemap(data,
+         index="animal",
+         vsize="value",
+         type="index")
+ )
Error in treemap(data, index = "animal", vsize = "value", type = "index") :
  <index> contains invalid column names
> library(treemap)
>
> group <- c("Cat","dog","Bird", "Squirrel", "Rabbit")
> value <- c(39, 43, 22, 13, 10)
> data <- data.frame(group,value)
>
> treemap(data,
+         index="group",
+         vsize="value",
+         type="index")
+ )
>

```

Global Environment	
data	5 obs. of 2 variables
trees	31 obs. of 3 variables
values	
animal	chr [1:3] "Cat" "dog" "Bird"
animals	chr [1:5] "Rabbit" "Bird" "Squirr..."
animalsInNa...	num [1:5] 15 33 59 70 43
condition	chr [1:9] "Big" "Small" "Medium" ...
group	chr [1:5] "Cat" "dog" "Bird" "Squ..."
labels	chr [1:5] "Birch" "oak" "Pine" "A..."
numberOfAni...	num [1:5] 39 43 22 13 10
size	chr [1:9] "Big" "small" "Medium" ...
specie	chr [1:9] "Cat" "Cat" "Cat" "dog"...
treeHeights	num [1:5] 15 33 59 70 43
value	num [1:5] 39 43 22 13 10

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