R PLots

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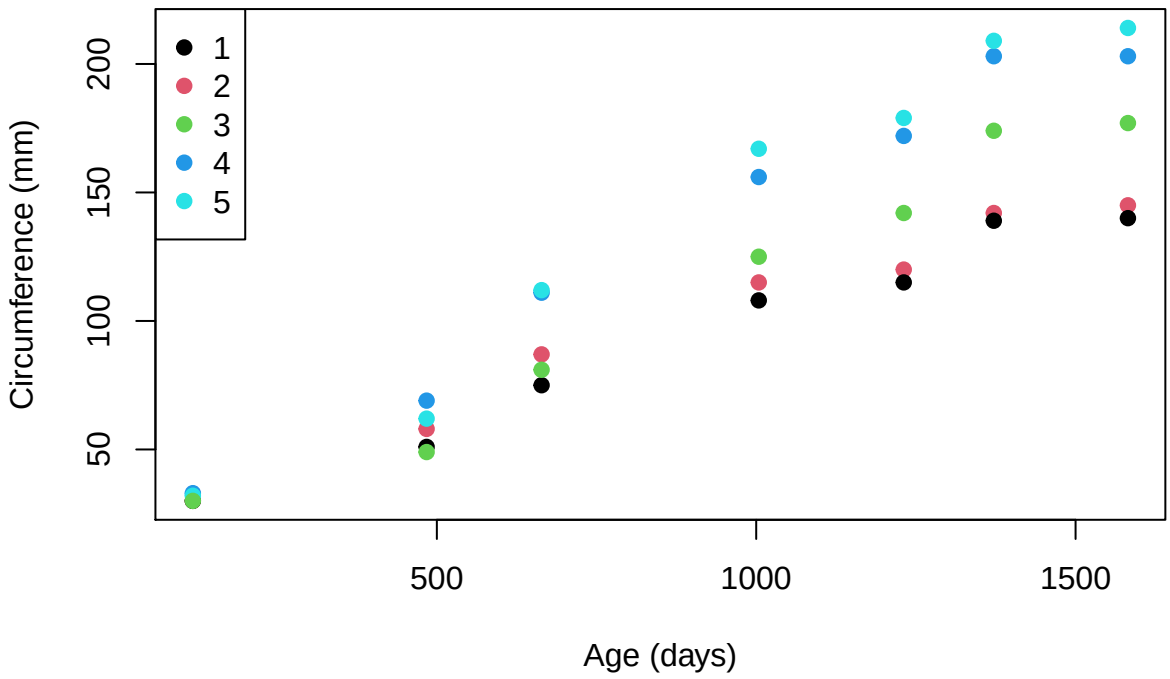
##Simple Scatter Plot with colors for each tree

```
data(Orange)
plot(Orange$age,Orange$circumference,xlab="Age (days)",ylab="Circumference (mm)",pch=19,col=Orange$Tree
legend('topleft',sort(levels(Orange$Tree)),col=1:length(levels(Orange$Tree)),pch=19)
```

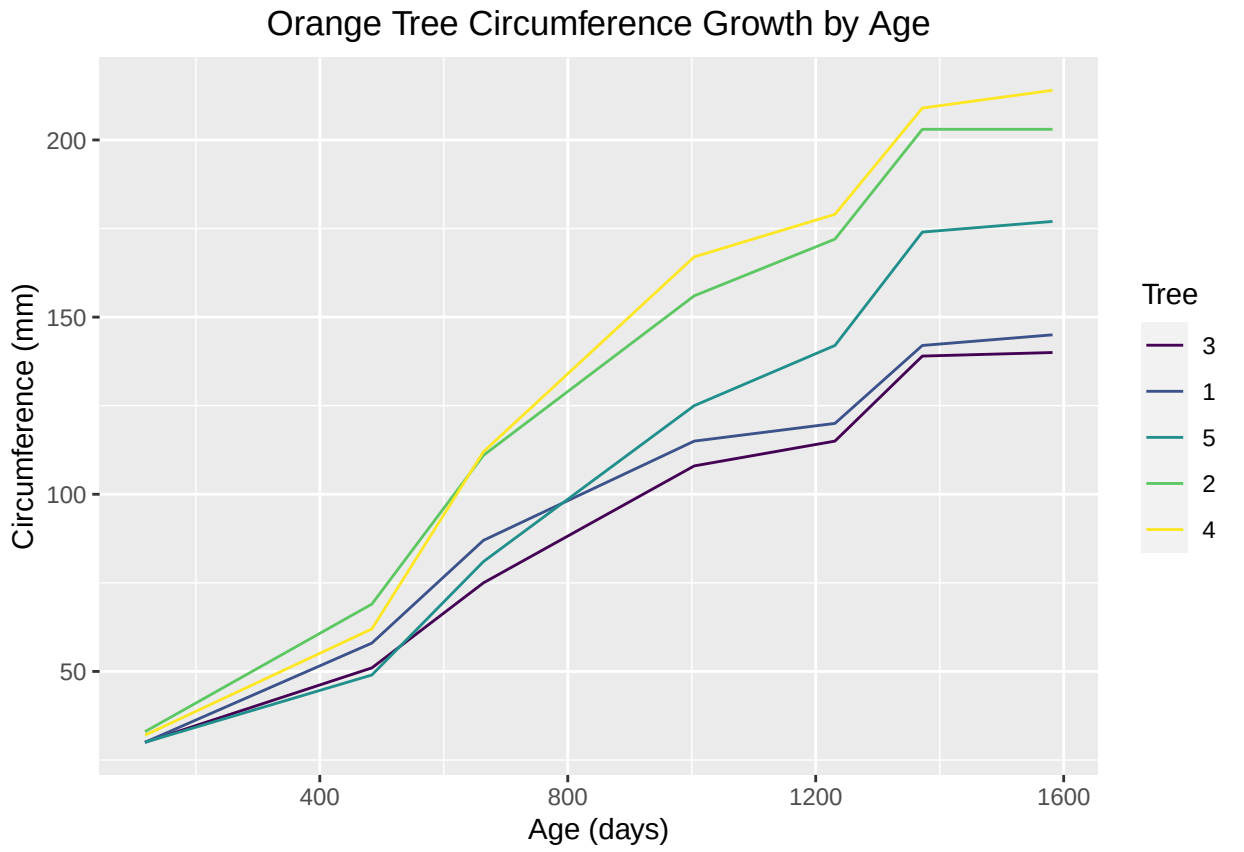


##GGPLOT solution from: #https://lost-stats.github.io/Presentation/Figures/line_graphs.html

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.0.5
```

```
ggplot(Orange, aes(x = age, y = circumference, color = Tree)) +
  geom_line() +
  labs(x = "Age (days)", y = "Circumference (mm)", title = "Orange Tree Circumference Growth by Age") +
  theme(plot.title = element_text(hjust = 0.5))
```



##Trials with viridis

```
library(viridis)
```

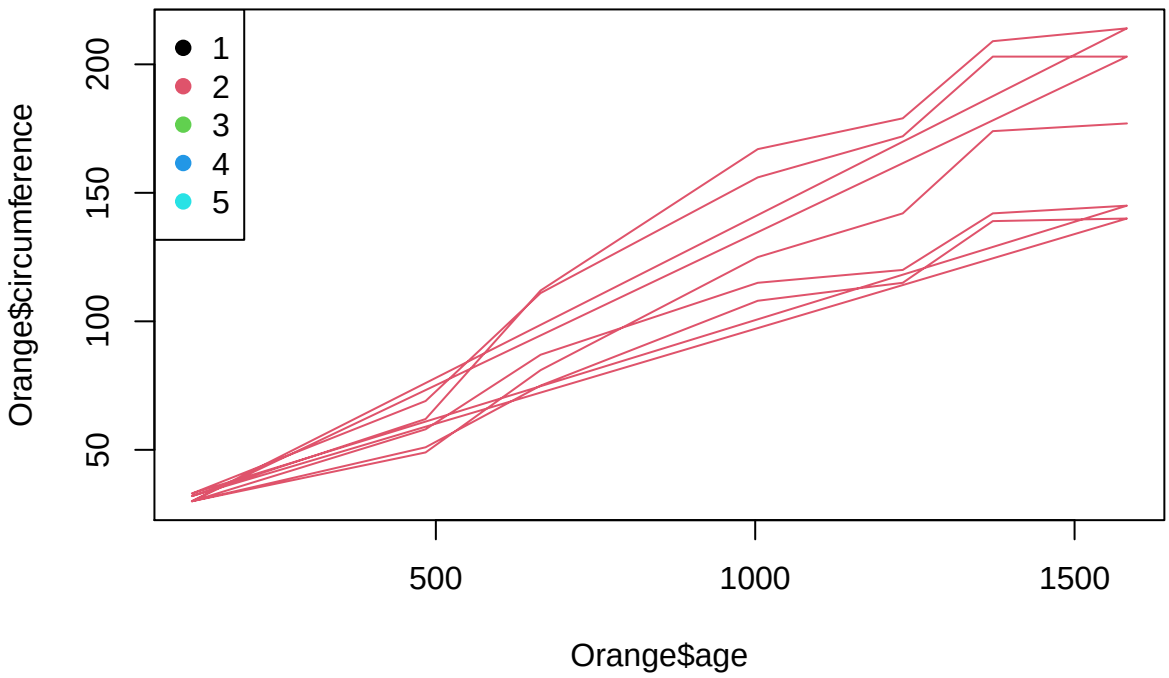
```
## Warning: package 'viridis' was built under R version 4.0.5
```

```
## Loading required package: viridisLite
```

```
## Warning: package 'viridisLite' was built under R version 4.0.5
```

```
tree.colors <- viridis(nlevels(Orange$Tree))

plot(x=Orange$age,y=Orange$circumference, type ='l',col=Orange$Tree)
legend('topleft',sort(levels(Orange$Tree)),col=1:length(levels(Orange$Tree)),pch=19)
```


1
2
3
4
5
50
100
150
200
Orange$circumference
500
1000
1500
Orange$age