

# R PLots using Viridis Color Map

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9/25/2021

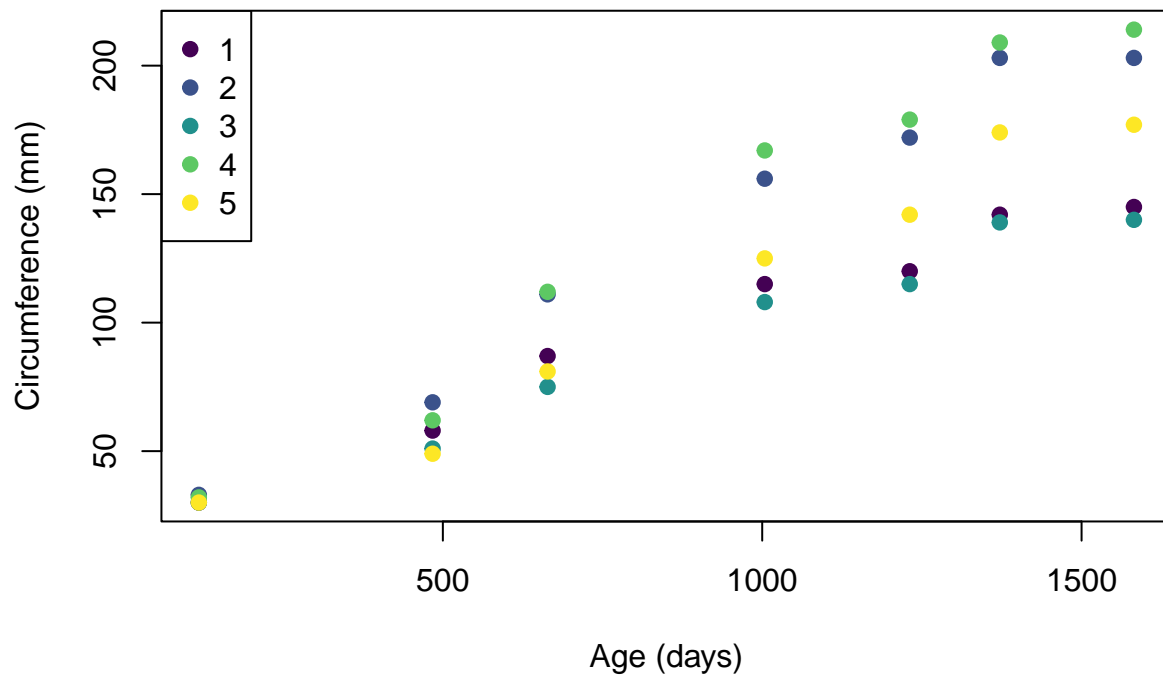
## Simple Scatter Plot with distinct color trees

```
library(viridis)
```

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

```
Orange$Tree <- factor(Orange$Tree, levels=seq(1,nlevels(Orange$Tree)),ordered=T)  
tree.colors <- viridis(nlevels(Orange$Tree))
```

```
plot(x=Orange$Age,y=Orange$circumference,  
     type='p',pch=19,  
     col=tree.colors[Orange$Tree], xlab='Age (days)', ylab='Circumference (mm)')  
legend('topleft',legend=levels(Orange$Tree),col=tree.colors,pch=19)
```



## Generic Line Plot using Viridis Color Maps

vector driven color and shape based on Orange\$Tree field.

```
#library(viridis)
#Orange$Tree <- factor(Orange$Tree, levels=seq(1,nlevels(Orange$Tree)),ordered=T)
#tree.colors <- viridis(nlevels(Orange$Tree))

tree.shapes <- as.numeric(levels(Orange$Tree))

plot(Orange$Age,Orange$circumference,type='n',main = "Trees:Growth by Age",
     xlim = range(Orange$Age), ylim = range(Orange$circumference),
     xlab='Age (days)', ylab='Circumference (mm)')

for (i in tree.shapes) {
  newdata <- subset(Orange, Tree==i)
  lines(x=newdata$Age,y=newdata$circumference, type='o',pch=tree.shapes[i], col=tree.colors[i])
}

legend('topleft',legend=levels(Orange$Tree),col=tree.colors,pch=tree.shapes)
```

