Sarah Davis Concept Assignment

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Fruit Pie Chart2.R Source on Save X Function	Bun 🐤 Source - 🖃	Environment New Con	nection		9
<pre>1 #00xplot 2 attach(mtcars) 3 head(mtcars) 5 imtcars 5 boxplot(mpg-cyl,ylab="miles per gallon", 6 boxplot(mpg-cyl,ylab="miles per gallon", 7 main="Effect of Cylinder Count", xlab ="c 8 ccex.main=1.2, col.main="sienna2", names=C 8 ccl=c("green", "blue", "red")) 10 fincorporating the mean 11 mean=by(mpg,cyl,mean) 13 points(mean,col="yellow",pch=20) 14</pre>	y]inder count", ("4","6","8"),	Files Plots	on Packages Help Viewer ₱ Zoom →2 Export → 0	۲ tof Cylinder Cour	Status Gr Publish -
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#Boxplot

attach(mtcars)

head(mtcars)

tail(mtcars)

?mtcars

boxplot(mpg~cyl,ylab="miles per gallon", main="Effect of Cylinder Count", xlab ="cylinder count", cex.main=1.2, col.main="sienna2", names=c("4","6","8"),

col=c("green", "blue", "red"))

#incorporating the mean
mean=by(mpg,cyl,mean)
points(mean,col="yellow",pch=20)

The vehicles with four cylinders have better gas mileage than those with six or eight cylinders. As the cylinders increase, miles per gallon decreases. The yellow dot indicates the mean of miles per gallon for each cylinder-type of vehicle. The four cylinder vehicles have a larger range as compared to the six and eight cylinder vehicles. The six cylinder vehicles plot has the smallest range.

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#fruit pie chart

values=c(20,10,15,35,10)

labels=c("Apple","Orange","Grape","Strawberry","Tangerine")

labels2=c("Apple\n20%","Orange\n10%","Grape\n15%","Strawberry\n35%","Tangerine\n10%")

par(bg="grey",mar=c(2,2,3,2))

pie(x=values,labels=labels2,

main="Fruit Pie Chart", edges=200,

col=c("#cc0000","#ff4000","#800040","#ff3b3b","#ff9500"),

lty=2,init.angle=70,radius=0.7)