Summary Bar Charts

Code

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```
library(ggplot2)
library(Hmisc)

data<-read.delim('/home/atrides/Desktop/Applied-Statistics-with-R-master/statistics_with_R/04_Exploring_Data_with_Graphs/ChickFlick.dat', header=TRUE)
head(data)
```

	gender	film	arousal
	<chr>	<chr>	<int>
1	Male	Bridget Jones' Diary	22
2	Male	Bridget Jones' Diary	13
3	Male	Bridget Jones' Diary	16
4	Male	Bridget Jones' Diary	10
5	Male	Bridget Jones' Diary	18
6	Male	Bridget Jones' Diary	24

6 rows

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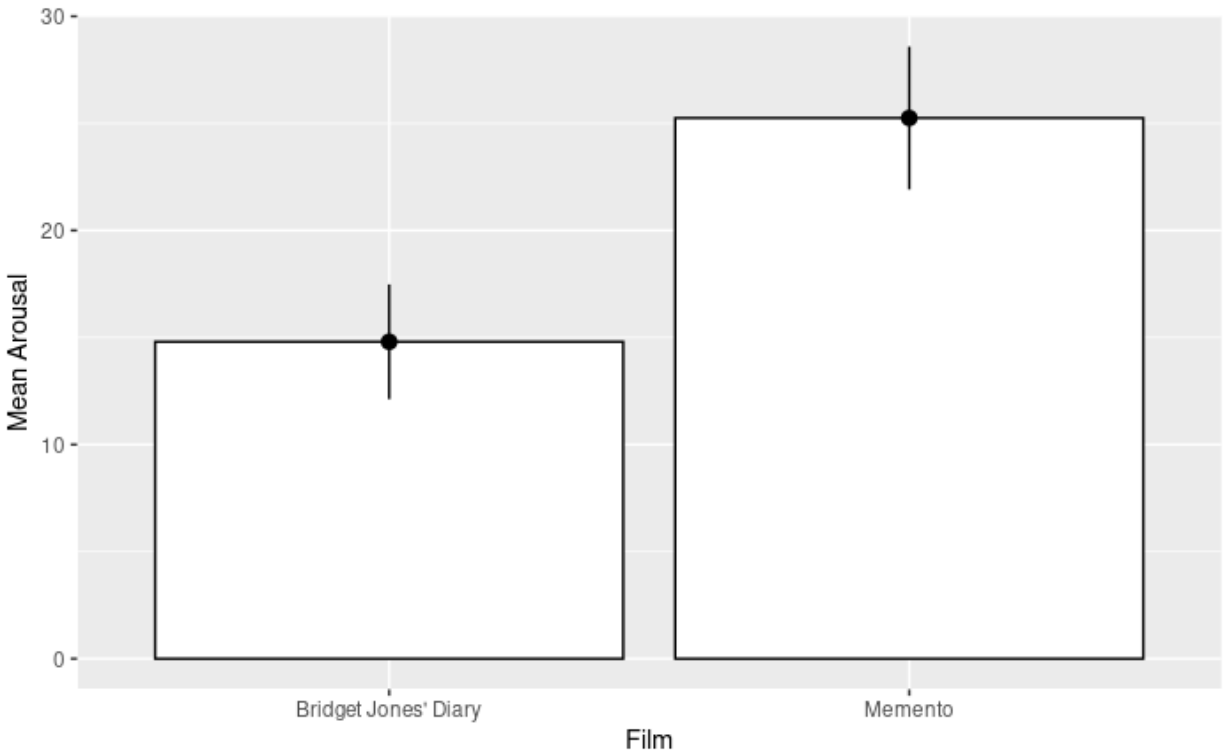
```
# when one independent variable
barchart<-ggplot(data, aes(film,arousal))

barchart + stat_summary(fun = mean, geom = "bar", fill = "White", colour = "Black") +
  stat_summary(fun.data = mean_cl_normal, geom = "pointrange") +
  labs(x = "Film", y = "Mean Arousal")
```



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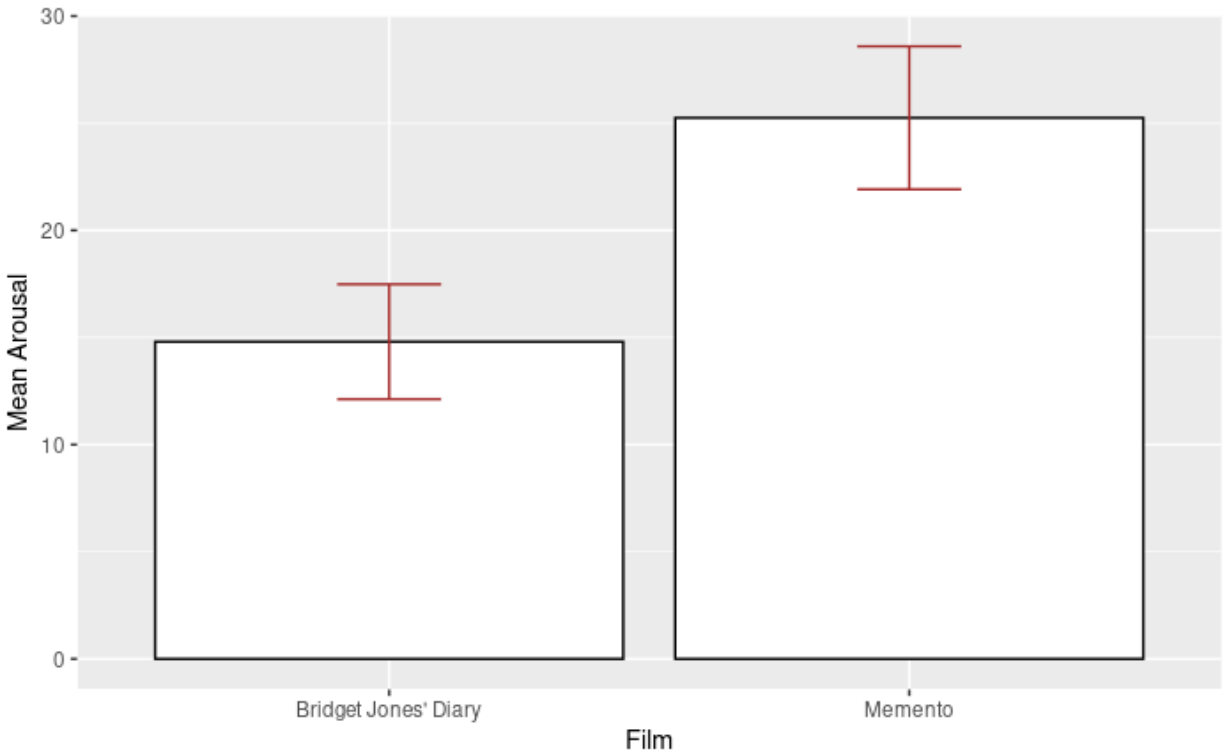
```
# errorbar instead of pointrange
barchart + stat_summary(fun = mean, geom = "bar", fill = "White", colour = "
Black") +
  stat_summary(fun.data = mean_cl_normal, geom = "errorbar",colour="Brown",w
idth=0.2) +
  labs(x = "Film", y = "Mean Arousal")
```



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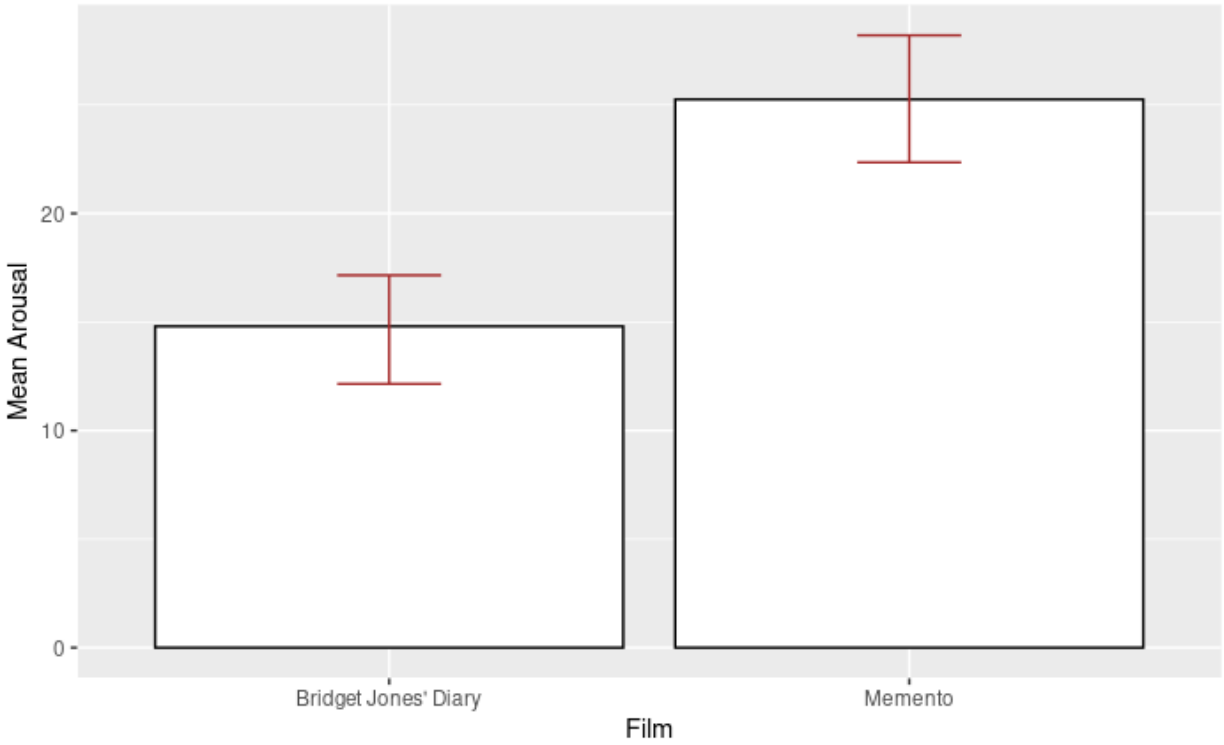
```
# with bootstrapped c.i
barchart + stat_summary(fun = mean, geom = "bar", fill = "White", colour = "
Black") +
  stat_summary(fun.data = mean_cl_boot, geom = "errorbar",colour="Brown",wid
th=0.2) +
  labs(x = "Film", y = "Mean Arousal")
```



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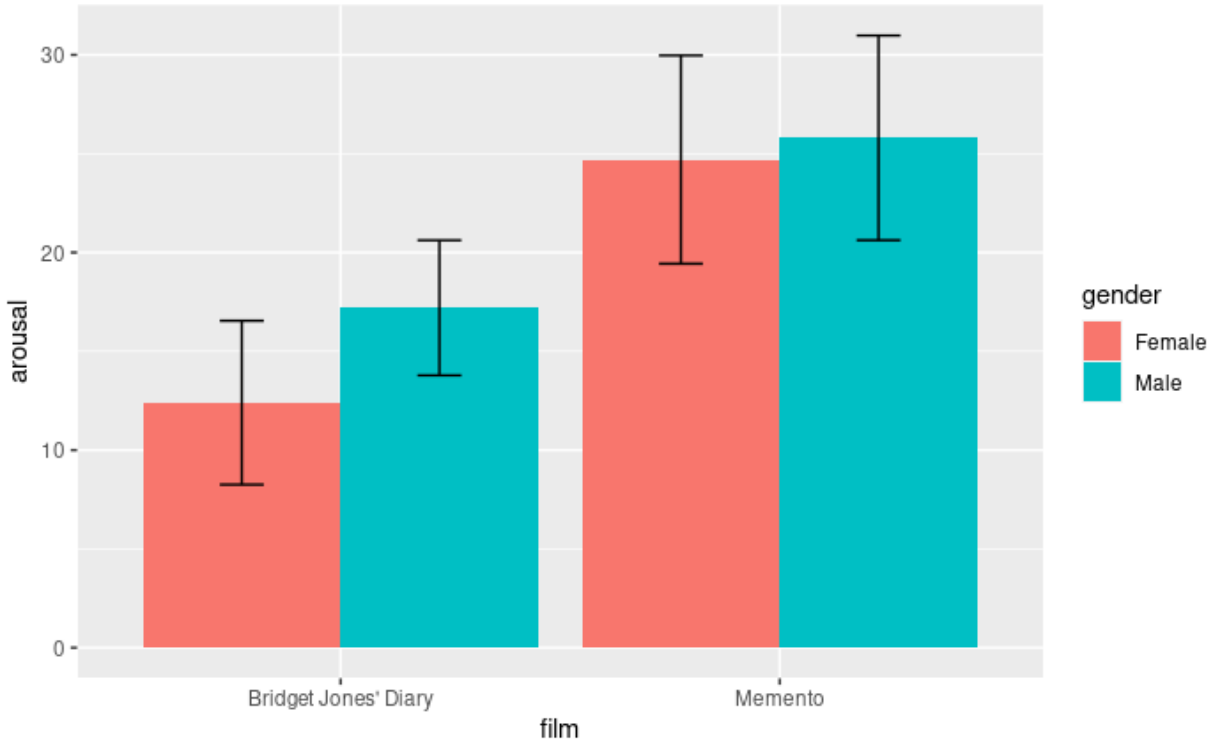
```
# several independent variable
bar<-ggplot(data, aes(film,arousal,fill=gender))
bar+stat_summary(fun=mean, geom='bar',position ='dodge')+
  stat_summary(fun.data = mean_cl_normal, geom = "errorbar", position = posi
tion_dodge(width=0.90), width = 0.2)
```



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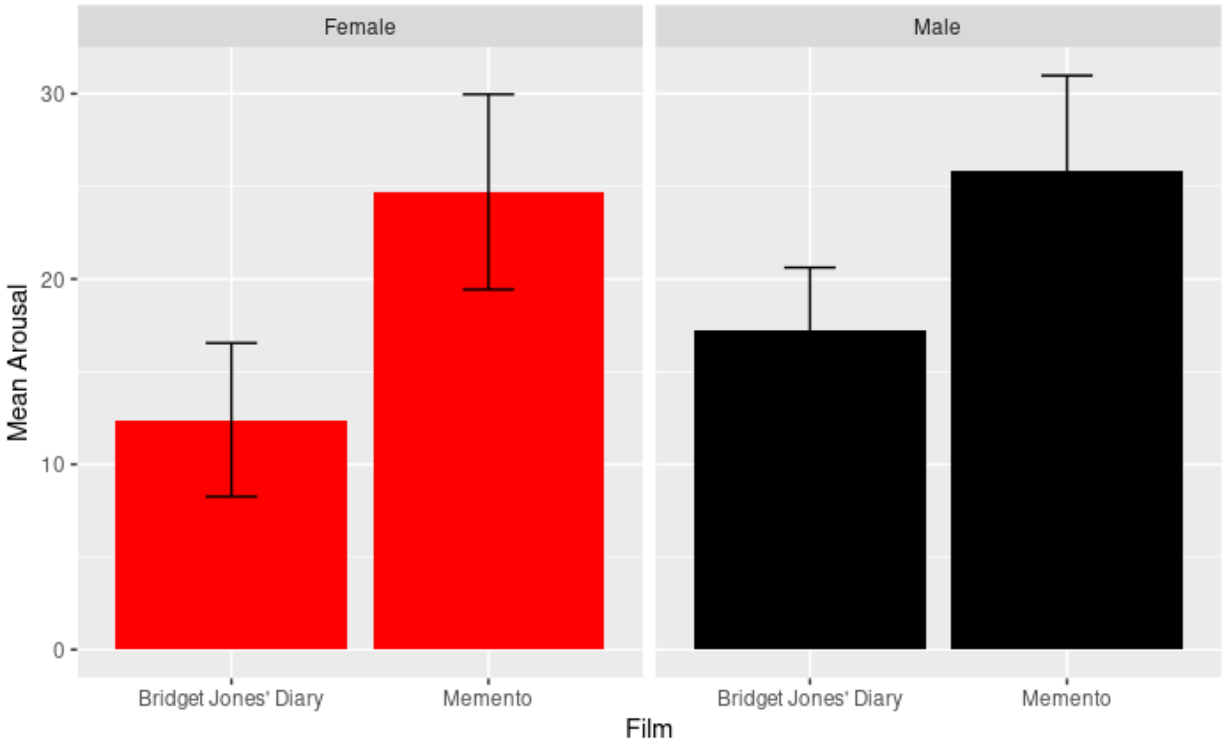
```
# different plot for male and female , also custom color is given using "sca
le_fill_manual" which applies the color on fill value passed
# while making ggplot object
bar + stat_summary(fun= mean, geom = "bar",position='dodge')+ stat_summary(f
un.data = mean_cl_normal, geom = "errorbar", width = 0.2)+ facet_wrap( ~ gen
der)+
  labs(x = "Film", y = "Mean Arousal")+ theme(legend.position = "none")+ sca
le_fill_manual(values = c("red", "black"))
```


Female
Male
30
20
10
0
Mean Arousal
Bridget Jones' Diary
Memento
Bridget Jones' Diary
Memento
Film