GÖRAN KIRCHNER

NOTES ON R

Packages

Visualization

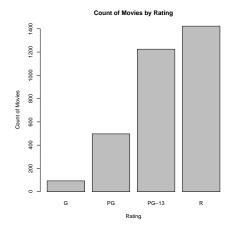
2.1 Data

movies <- read.csv("data/movies.csv")
head(movies)</pre>

Title	Year	Rating	Runtime	Critic.Score	Box.Office	Awards	International
The Whole Nine Yards	2000	R	98	45	57.3	FALSE	FALSE
Cirque du Soleil: Journey of Man	2000	G	39	45	13.4	TRUE	FALSE
Gladiator	2000	\mathbf{R}	155	76	187.3	TRUE	TRUE
Dinosaur	2000	PG	82	65	135.6	TRUE	FALSE
Big Momma's House	2000	PG-13	99	30	0.5	TRUE	TRUE
Gone in Sixty Seconds	2000	PG-13	118	24	101	TRUE	FALSE

2.2 One Categorical Variable

2.2.1 base

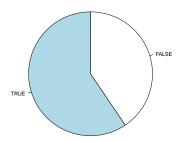


```
movies <- read.csv("data/movies.csv")
dotchart(
    x = table(movies$Rating),
    pch = 16,
    main = "Count of Movies by Rating",
    xlab = "Count of Movies",
    ylab = "Rating")</pre>
```

Count of Movies by Rating

```
PG -13
PG
```

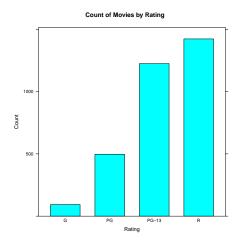
Proportion of Movies that Won Awards



2.2.2 lattice

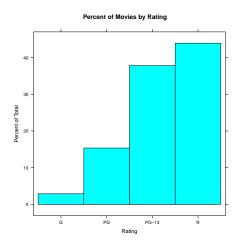
```
library(lattice)
# Create frequency table of ratings
movies <- read.csv("data/movies.csv")
table <- table(movies$Rating)
ratings <- as.data.frame(table)
names(ratings)[1] <- "Rating"
names(ratings)[2] <- "Count"
print(ratings)</pre>
```

Rating	Count
G	93
PG	497
PG-13	1225
R	1423

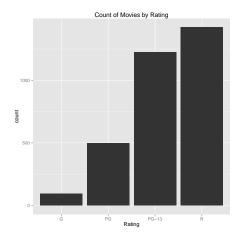


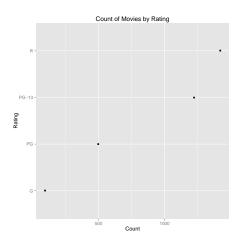
PG-13 PG G G Count of Movies by Rating

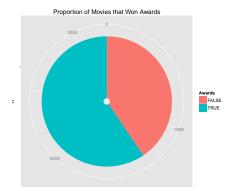
```
library(lattice)
# Create frequency table of ratings
movies <- read.csv("data/movies.csv")
table <- table(movies$Rating)
ratings <- as.data.frame(table)
names(ratings)[1] <- "Rating"
names(ratings)[2] <- "Count"
histogram(
    x = ~Rating,
    data = movies,
    main = "Percent of Movies by Rating")</pre>
```



2.2.3 ggplot2







- 2.3 One Numeric Variable
- 2.4 Two Categorical Variables
- 2.5 Two Numeric Variables
 - 2.6 Both a Categorical and a Numeric Variable
 - 2.7 Moving Beyond