Read in the data

Ladies
Melbourne

```
############################## Loading the data ##############################
dat <- read.table("https://www.dropbox.com/s/utp3ehtq12sbtqt/Data.txt?dl=1")
```

Visualise in the data

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```
############################## Loading the data ##############################
dat <- read.table("https://www.dropbox.com/s/utp3ehtq12sbtqt/Data.txt?dl=1")
View(data)
```

data | It_takes_a_spark_LearningR.R | It_takes_a_spark_LearningR_Maps.R

Filter

	Firstname	Class	Height	Weight	Age	Sex	Sickness	Temperature
1	Paul	A	61.7	42	12	M	Y	40
2	Julie	C	60.0	45	10	F	Y	39
3	Nat	B	60.5	44	11	F	N	37
4	Damien	D	61.7	43	12	M	Y	39
5	Eric	A	62.0	42	13	M	N	36
6	Simon	A	62.3	45	12	M	Y	39
7	Angela	B	60.9	44	11	F	N	37
8	Terry	D	60.3	45	10	M	N	37
9	Jeffrey	A	62.7	41	12	M	Y	39
10	Sam	C	61.0	43	12	M	N	37
11	Anna	D	61.3	42	11	F	Y	38
12	Conny	B	61.8	42	13	F	N	37

Exploration of the data

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```
############################## Data explorations ##############################
data$Firstname
data$Class
data$Age
```

```
> data$Firstname
 [1] Paul    Julie   Nat     Damien  Eric    Simon   Angela  Terry   Jeffrey Sam     Anna    Conny
[13] Alex    Peter   Gordon  Hannah  Andrew  Luke    Melissa John    Helen   Steven  Nicolas Julia
[25] Mary    Nathan  Alicia  Martin  Hugh
29 Levels: Alex Alicia Andrew Angela Anna Conny Damien Eric Gordon Hannah Helen Hugh Jeffrey ... Terry
> data$Class
 [1] A C B D A A B D A C D B C A C C D A B D B C A D A B D A B
Levels: A B C D
> data$Age
 [1] 12 10 11 12 13 12 11 10 12 12 11 13 11 10 13 12 11 12 13 10 11 12 12 11 13 13 13 10 10
```

Plot the data using plot command

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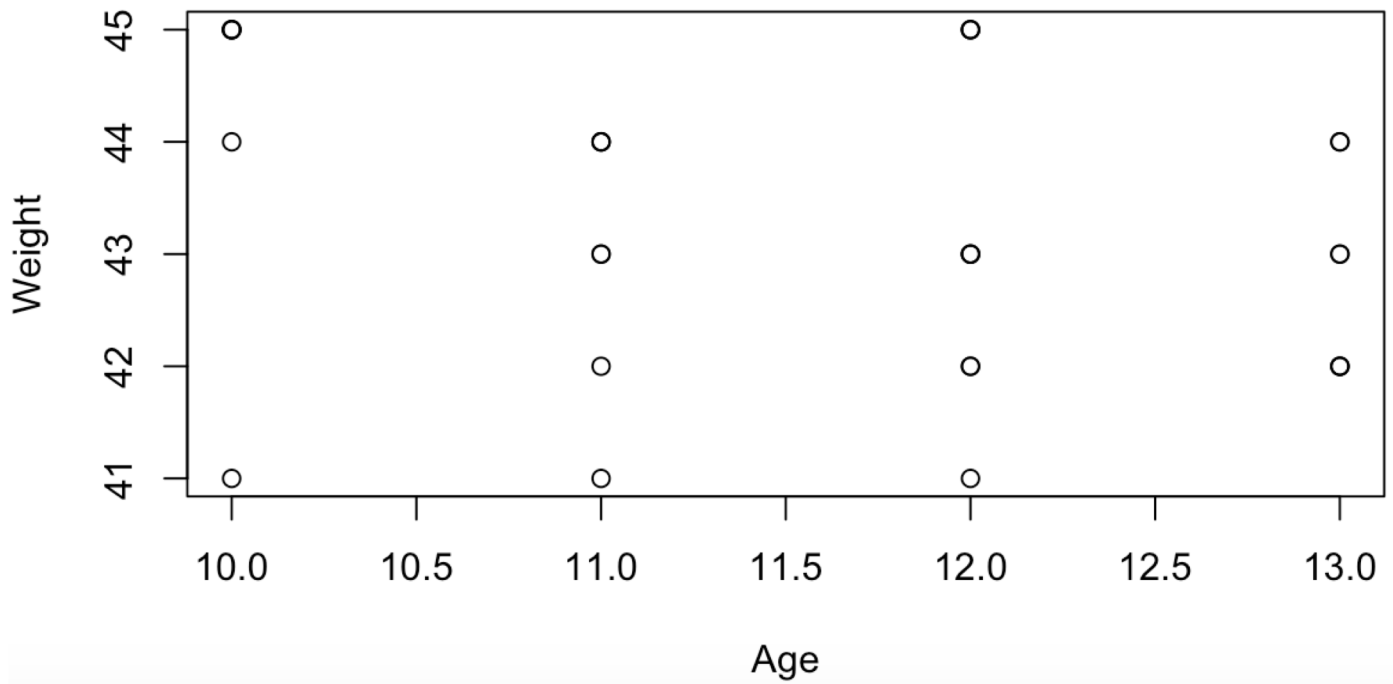
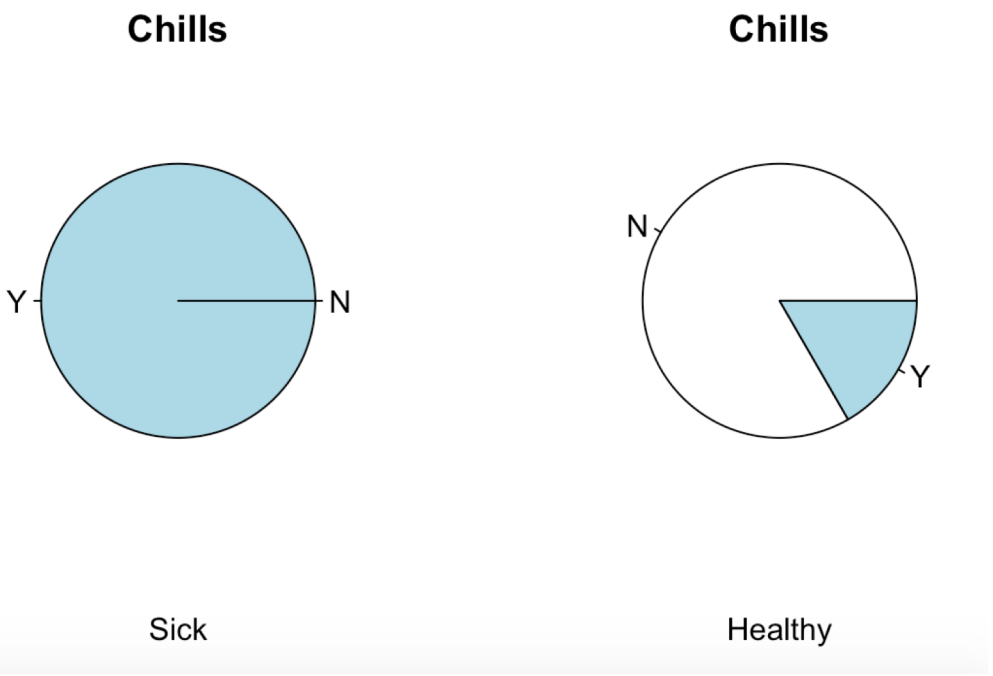
```
############################## Plot ############################
# Plot Age vs Weight
plot(data$Age, data$Weight,xlab="Age",ylab="Weight")
```



Plot the data using pie plots

```
## Plot the chills of breath versus sick and healthy
par(mfrow=c(1,2) ) # 1 row and 3 columns for plots
pie( table(data$chills[data$Sickness=="Y"]), xlab="Sick",main = "Chills")
pie( table(data$chills[data$Sickness=="N"]), xlab="Healthy",main="Chills")
```



Plot the data using pie plots

```
## Plot the proportion of shortness of breath for sick and healthy
par(mfrow=c(1,2) ) # 1 row and 2 columns for plots
pie( table(data$shortness_of_breath[data$Sickness=="Y"]),  xlab="Sick",main = "Shortness breath")
pie( table(data$shortness_of_breath[data$Sickness=="N"]),xlab="Non-sick",main = "Shortness breath")
```