Data Visualisation (R)

- This example uses custom data

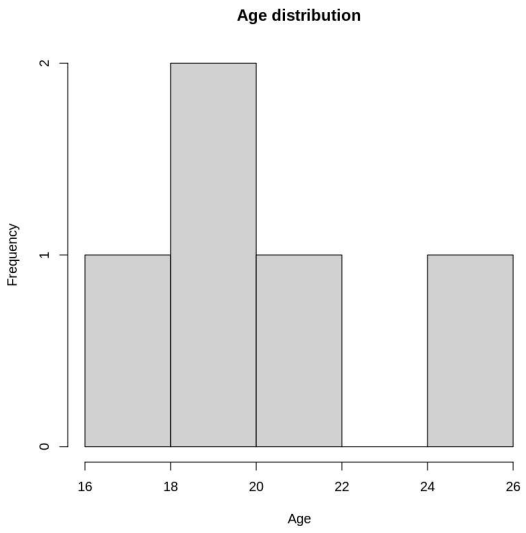
```r
data <- data.frame(
  age = c(17, 22, 26, 19, 20),
  gender = c("Male", "Male", "Female", "Male", "Female"),
  height = c(1.97, 1.88, 1.67, 1.75, 1.72)
)

head(data)
```

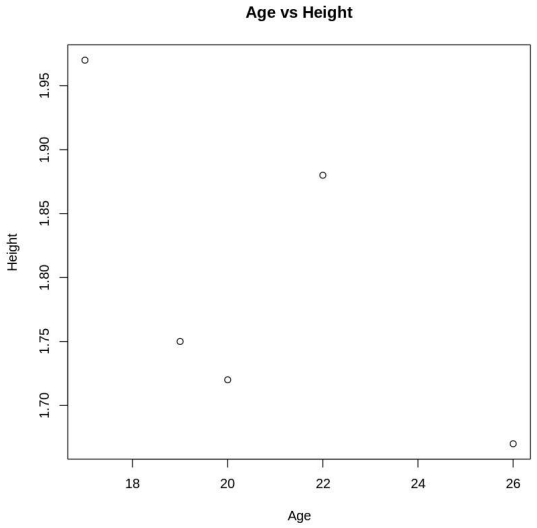
A data.frame: 5 × 3

	age <dbl>	gender <chr>	height <dbl>
1	17	Male	1.97
2	22	Male	1.88
3	26	Female	1.67
4	19	Male	1.75
5	20	Female	1.72

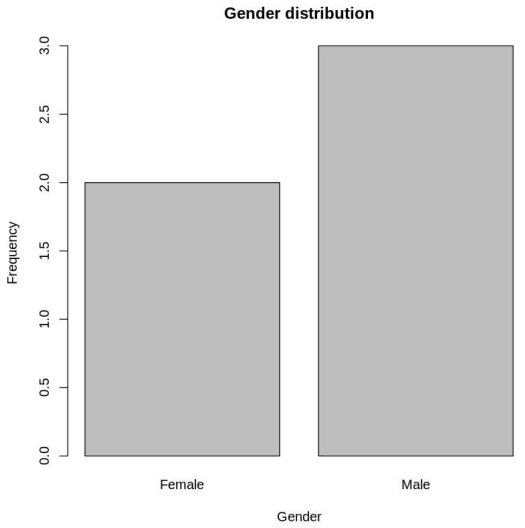
```r
# Histogram
hist(data$age, main="Age distribution", xlab="Age")
```



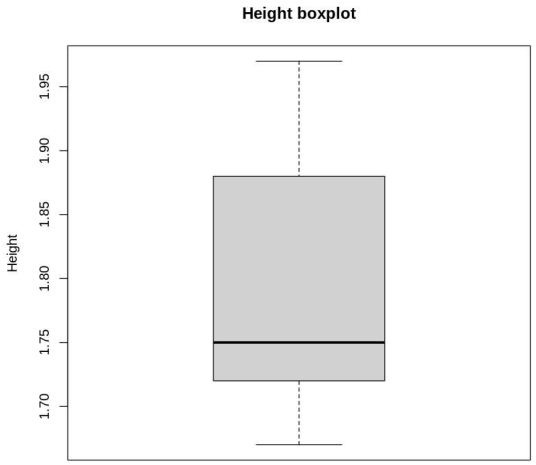

```r
# Scatter plot
plot(data$age, data$height, main="Age vs Height", xlab="Age", ylab="Height")
```



```r
# Bar plot
barplot(table(data$gender), main="Gender distribution", xlab="Gender", ylab="Frequency")
```




```r
# Boxplot
boxplot(data$height, main="Height boxplot", ylab="Height")
```




```r
# Time series
x <- c(11, 13, 26, 9, 7, 44, 66, 22, 44, 33, 99, 45, 76, 49, 57, 88, 40, 76, 81, 12, 16, 32) # Random series
x_ts <- ts(x, start=1, frequency=1) # Convert to time series
plot(x_ts, main="Time Series", xlab="Time", ylab="Frequency")
```