Exercise 1:			
Exercise 2:			
Exercise 3:			
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Exercise 7:			

# Lab 1: Intro to R

Code **▼** 

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data(arbuthnot)

## Exercise 1:

Hide

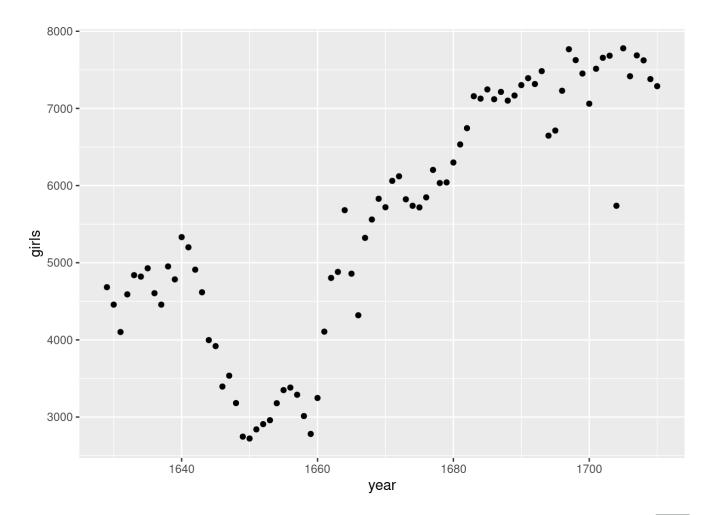
arbuthnot\$girls

### Exercise 2:

Hide

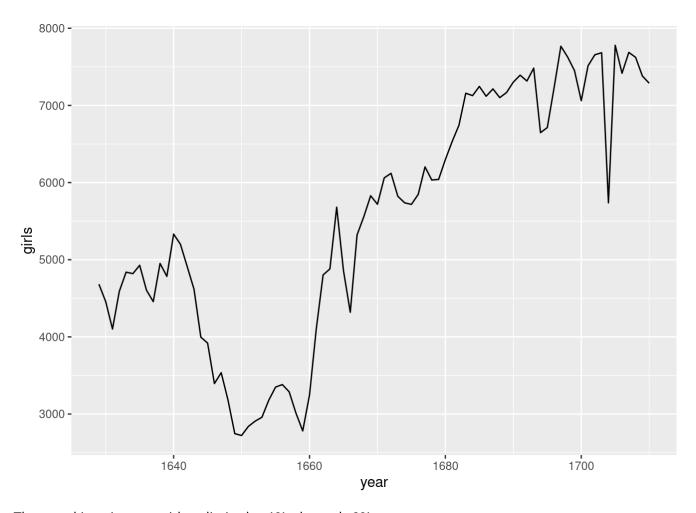
qplot(x = year, y = girls, data = arbuthnot)

## Warning: `qplot()` was deprecated in ggplot2 3.4.0.



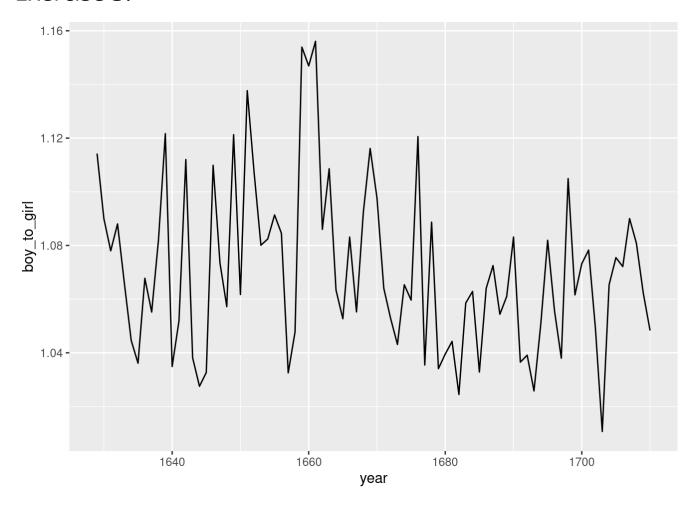
Hide

qplot(x = year, y = girls, data = arbuthnot, geom = "line")



The trend is going up, with a dip in the 40's through 60's

## Exercise 3:



## Exercise 4:

```
Hide

data(present)
range(present$year)

## [1] 1940 2013

Hide

dim(present)

## [1] 74 3

Hide

names(present)

## [1] "year" "boys" "girls"
```

### Exercise 5:

They are not similar in scale, the present data has significantly more births than the data from arbuthnot

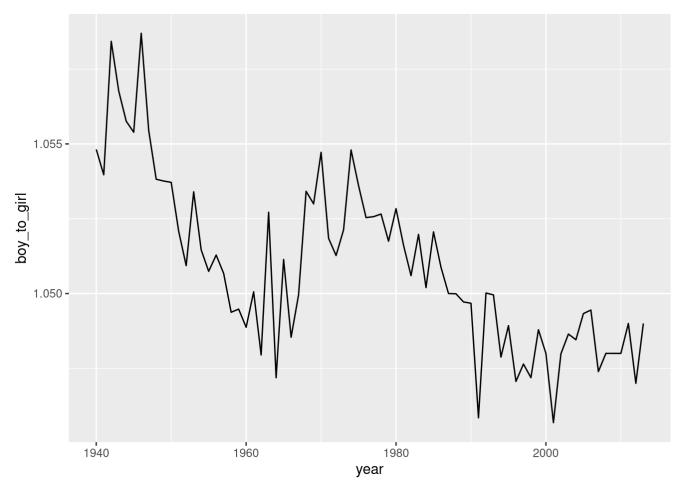
### Exercise 6:

Hide

```
present <- present %>%
  mutate(total = boys + girls)

present <- present %>%
  mutate(boy_to_girl = boys / girls)

qplot(x = year, y = boy_to_girl, data = present, geom = "line")
```



In the present data we can see that the ratio of boys is greater than girls by a small amount, only a few present higher than girls

#### Exercise 7:

Hide

```
present %>%
arrange(desc(total))
```

```
## # A tibble: 74 × 5
##
      year
            boys
                    girls total boy_to_girl
##
     <dbl> <dbl>
                    <dbl> <dbl>
                                        <dbl>
## 1 2007 2208071 2108162 4316233
                                         1.05
##
   2 1961 2186274 2082052 4268326
                                         1.05
## 3 2006 2184237 2081318 4265555
                                         1.05
## 4 1960 2179708 2078142 4257850
                                         1.05
## 5 1957 2179960 2074824 4254784
                                         1.05
## 6 2008 2173625 2074069 4247694
                                         1.05
## 7 1959 2173638 2071158 4244796
                                         1.05
## 8 1958 2152546 2051266 4203812
                                         1.05
## 9 1962 2132466 2034896 4167362
                                         1.05
## 10 1956 2133588 2029502 4163090
                                         1.05
## # ... with 64 more rows
```

2007 had the most total number of births at 4,316,233 total births