

# Lab 1 - Intro to R and RStudio

Team name

Date of lab session

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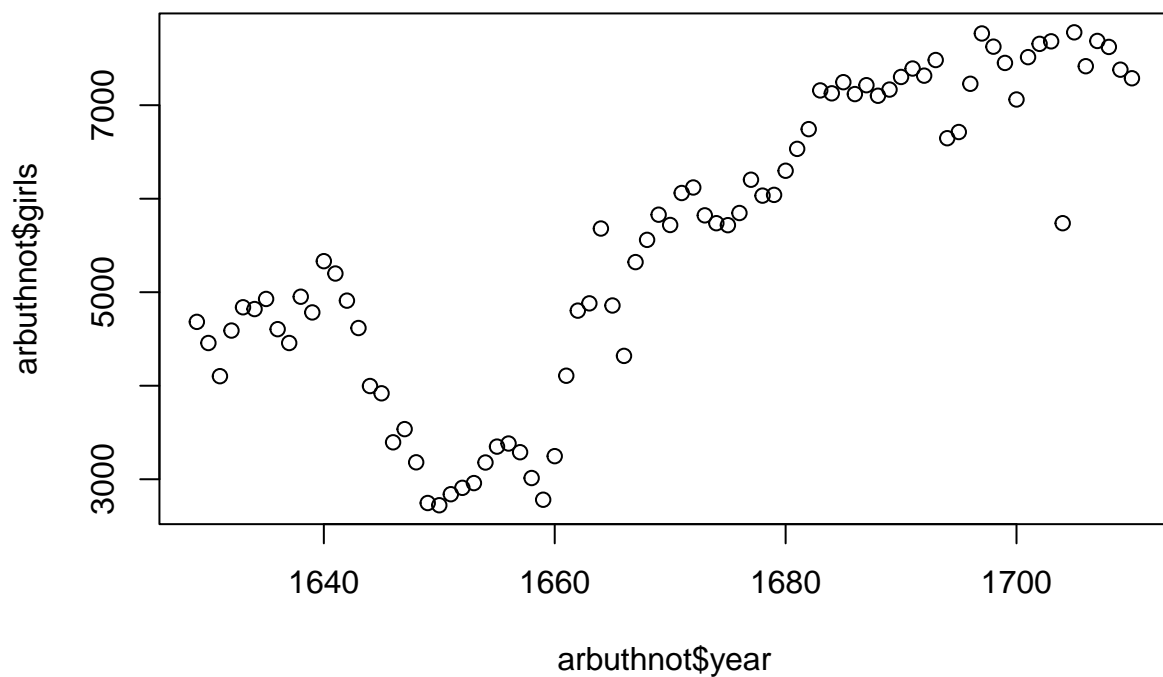
## Lab report

```
source("http://www.openintro.org/stat/data/arbuthnot.R")
```

Load data: (Hint, the source command from the lab)

**Exercise 1:** I would add this block of code to plot the graph:

```
plot(x = arbuthnot$year, y = arbuthnot$girls)
```



```
?plot
```

```
## starting httpd help server ... done
```

**Exercise 2:** This adds all the boys and girls together for every column in the data.

```
arbuthnot$boys + arbuthnot$girls
```

```
## [1] 9901 9315 8524 9584 9997 9855 10034 9522 9160 10311 10150 10850
## [13] 10670 10370 9410 8104 7966 7163 7332 6544 5825 5612 6071 6128
## [25] 6155 6620 7004 7050 6685 6170 5990 6971 8855 10019 10292 11722
## [37] 9972 8997 10938 11633 12335 11997 12510 12563 11895 11851 11775 12399
## [49] 12626 12601 12288 12847 13355 13653 14735 14702 14730 14694 14951 14588
## [61] 14771 15211 15054 14918 15159 13632 13976 14861 15829 16052 15363 14639
## [73] 15616 15687 15448 11851 16145 15369 16066 15862 15220 14928
```

```
arbuthnot$boys > arbuthnot$girls
```

**Exercise 3:**

```
## [1] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [16] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [31] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [46] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [61] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [76] TRUE TRUE TRUE TRUE TRUE TRUE TRUE
```

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**On your own:**

**1:** The years included are from the span of 1940 to 2002. The dimensions are 63x3. The names are year, boys, girls.

```
source("http://www.openintro.org/stat/data/present.R")
dim(present)
```

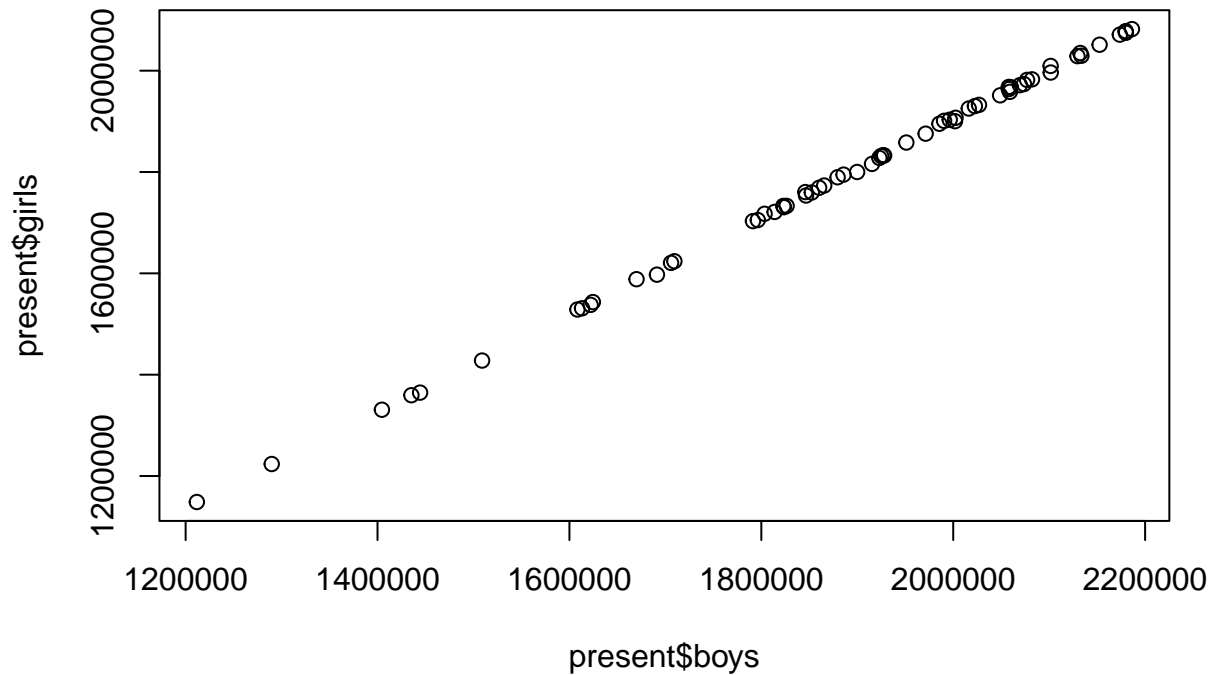
```
## [1] 63 3
```

```
names(present)
```

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

**2:** They are very far from each other

```
plot(x=present$boys,y=present$girls)
```



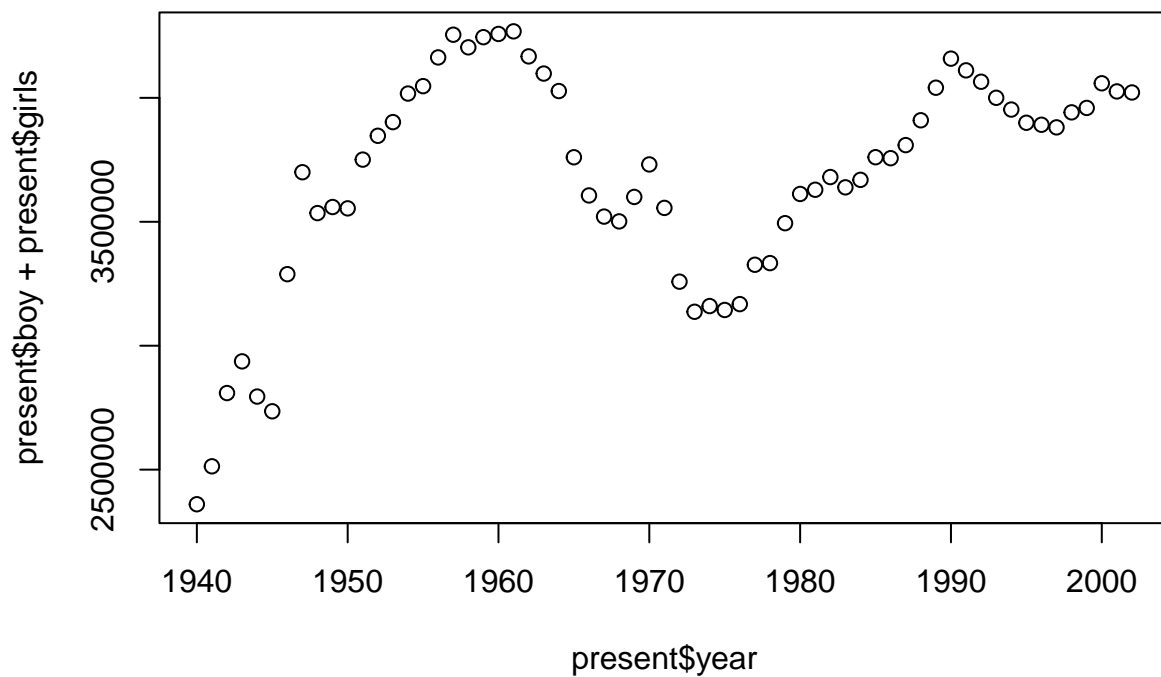
3:

```
present$boys + present$girls
```

4:

```
## [1] 2360399 2513427 2808996 2936860 2794800 2735456 3288672 3699940 3535068
## [10] 3559529 3554149 3750850 3846986 3902120 4017362 4047295 4163090 4254784
## [19] 4203812 4244796 4257850 4268326 4167362 4098020 4027490 3760358 3606274
## [28] 3520959 3501564 3600206 3731386 3555970 3258411 3136965 3159958 3144198
## [37] 3167788 3326632 3333279 3494398 3612258 3629238 3680537 3638933 3669141
## [46] 3760561 3756547 3809394 3909510 4040958 4158212 4110907 4065014 4000240
## [55] 3952767 3899589 3891494 3880894 3941553 3959417 4058814 4025933 4021726
```

```
plot(x = present$year, y = present$boy+present$girls)
```



```
temp = 0
pop = 0
for (i in 1:63)
{
  if(present$boys[i]+present$girls[i] > pop){
    pop = present$boys[i]+present$girls[i]
    temp = present$year[i];
  }
};
temp
```

```
## [1] 1961
```

```
pop
```

```
## [1] 4268326
```

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Teamwork report

Team member	Attendance	Author	Contribution %
Name of member 1	Yes / No	Yes / No	25%
Name of member 2	Yes / No	Yes / No	25%
Name of member 3	Yes / No	Yes / No	25%
Name of member 4	Yes / No	Yes / No	25%
Total			100%