

Lab_1.R

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```
##### PSY 503
##### Lab_1
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```

```
### 1 ###
install.packages("coursekata")
```

```
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.5'
## (as 'lib' is unspecified)
```

```
install.packages("tidyverse")
```

```
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.5'
## (as 'lib' is unspecified)
```

```
install.packages("datasauRus")
```

```
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.5'
## (as 'lib' is unspecified)
```

```
library(coursekata)
```

```
## Registered S3 method overwritten by 'mosaic':
##   method             from
##   fortify.SpatialPolygonsDataFrame ggplot2
```

```
## Loading required package: dslabs
```

```
## Loading required package: Lock5withR
```

```
## Loading required package: fivethirtyeightdata
```

```
## Loading required package: fivethirtyeight
```

```
## Loading required package: Metrics
```

```
## Loading required package: lsr
```

```
## Loading required package: mosaic
```

```
##
```

```
## The 'mosaic' package masks several functions from core packages in order to add
## additional features. The original behavior of these functions should not be affected by this.
```

```
##
```

```
## Attaching package: 'mosaic'
```

```
## The following objects are masked from 'package:dplyr':
```

```
##
```

```

##      count, do, tally
## The following object is masked from 'package:Matrix':
##
##      mean
## The following object is masked from 'package:ggplot2':
##
##      stat
## The following objects are masked from 'package:stats':
##
##      binom.test, cor, cor.test, cov, fivenum, IQR, median, prop.test,
##      quantile, sd, t.test, var
## The following objects are masked from 'package:base':
##
##      max, mean, min, prod, range, sample, sum
## Loading required package: supernova
## -- CourseKata packages ----- coursekata 0.19.0 --
## v dslabs          0.8.0      v Metrics          0.1.4
## v Lock5withR      1.2.2      v lsr              0.5.2
## v fivethirtyeightdata 0.1.0    v mosaic          1.9.2
## v fivethirtyeight  0.6.2      v supernova       3.0.0
##
## Attaching package: 'coursekata'
##
##
## The following object is masked from 'package:datasets':
##
##      penguins
library(tidyverse)

## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v forcats 1.0.0      v stringr 1.5.2
## v lubridate 1.9.4     v tibble 3.3.0
## v purrr 1.1.0        v tidyr 1.3.1
## v readr 2.1.5
## -- Conflicts ----- tidyverse_conflicts() --
## x mosaic::count() masks dplyr::count()
## x purrr::cross() masks mosaic::cross()
## x mosaic::do() masks dplyr::do()
## x tidyr::expand() masks Matrix::expand()
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## x tidyr::pack() masks Matrix::pack()
## x mosaic::stat() masks ggplot2::stat()
## x mosaic::tally() masks dplyr::tally()
## x tidyr::unpack() masks Matrix::unpack()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
library(datasauRus)

```

```

### 2 ###
lab1_data <- datasaurus_dozen
str(lab1_data)

## tibble [1,846 x 3] (S3: tbl_df/tbl/data.frame)
## $ dataset: chr [1:1846] "dino" "dino" "dino" "dino" ...
## $ x      : num [1:1846] 55.4 51.5 46.2 42.8 40.8 ...
## $ y      : num [1:1846] 97.2 96 94.5 91.4 88.3 ...
## - attr(*, "spec")=
## .. cols(
## ..   dataset = col_character(),
## ..   x = col_double(),
## ..   y = col_double()
## .. )

# what are these...??
# 'dataset' column shows nominal values, and the other two are probably intervals...??
# ohhhh I figure it out after plotting the dots. They are coordinates of different shapes!!
# so x and y coordinates should be ratio variables I guess

print(lab1_data$dataset)

##      [1] "dino"      "dino"      "dino"      "dino"      "dino"
##      [6] "dino"      "dino"      "dino"      "dino"      "dino"
##     [11] "dino"      "dino"      "dino"      "dino"      "dino"
##     [16] "dino"      "dino"      "dino"      "dino"      "dino"
##     [21] "dino"      "dino"      "dino"      "dino"      "dino"
##     [26] "dino"      "dino"      "dino"      "dino"      "dino"
##     [31] "dino"      "dino"      "dino"      "dino"      "dino"
##     [36] "dino"      "dino"      "dino"      "dino"      "dino"
##     [41] "dino"      "dino"      "dino"      "dino"      "dino"
##     [46] "dino"      "dino"      "dino"      "dino"      "dino"
##     [51] "dino"      "dino"      "dino"      "dino"      "dino"
##     [56] "dino"      "dino"      "dino"      "dino"      "dino"
##     [61] "dino"      "dino"      "dino"      "dino"      "dino"
##     [66] "dino"      "dino"      "dino"      "dino"      "dino"
##     [71] "dino"      "dino"      "dino"      "dino"      "dino"
##     [76] "dino"      "dino"      "dino"      "dino"      "dino"
##     [81] "dino"      "dino"      "dino"      "dino"      "dino"
##     [86] "dino"      "dino"      "dino"      "dino"      "dino"
##     [91] "dino"      "dino"      "dino"      "dino"      "dino"
##     [96] "dino"      "dino"      "dino"      "dino"      "dino"
##    [101] "dino"      "dino"      "dino"      "dino"      "dino"
##    [106] "dino"      "dino"      "dino"      "dino"      "dino"
##    [111] "dino"      "dino"      "dino"      "dino"      "dino"
##    [116] "dino"      "dino"      "dino"      "dino"      "dino"
##    [121] "dino"      "dino"      "dino"      "dino"      "dino"
##    [126] "dino"      "dino"      "dino"      "dino"      "dino"
##    [131] "dino"      "dino"      "dino"      "dino"      "dino"
##    [136] "dino"      "dino"      "dino"      "dino"      "dino"
##    [141] "dino"      "dino"      "away"      "away"      "away"
##    [146] "away"      "away"      "away"      "away"      "away"
##    [151] "away"      "away"      "away"      "away"      "away"
##    [156] "away"      "away"      "away"      "away"      "away"
##    [161] "away"      "away"      "away"      "away"      "away"

```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
## [1786] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1791] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1796] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1801] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1806] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1811] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1816] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1821] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1826] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1831] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1836] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1841] "wide_lines" "wide_lines" "wide_lines" "wide_lines" "wide_lines"
## [1846] "wide_lines"
```

```
print(unique(lab1_data$dataset))
```

```
## [1] "dino"      "away"      "h_lines"   "v_lines"   "x_shape"
## [6] "star"      "high_lines" "dots"      "circle"    "bullseye"
## [11] "slant_up"  "slant_down" "wide_lines"
```

```
# it's printing only the unique values in 'dataset' column
```

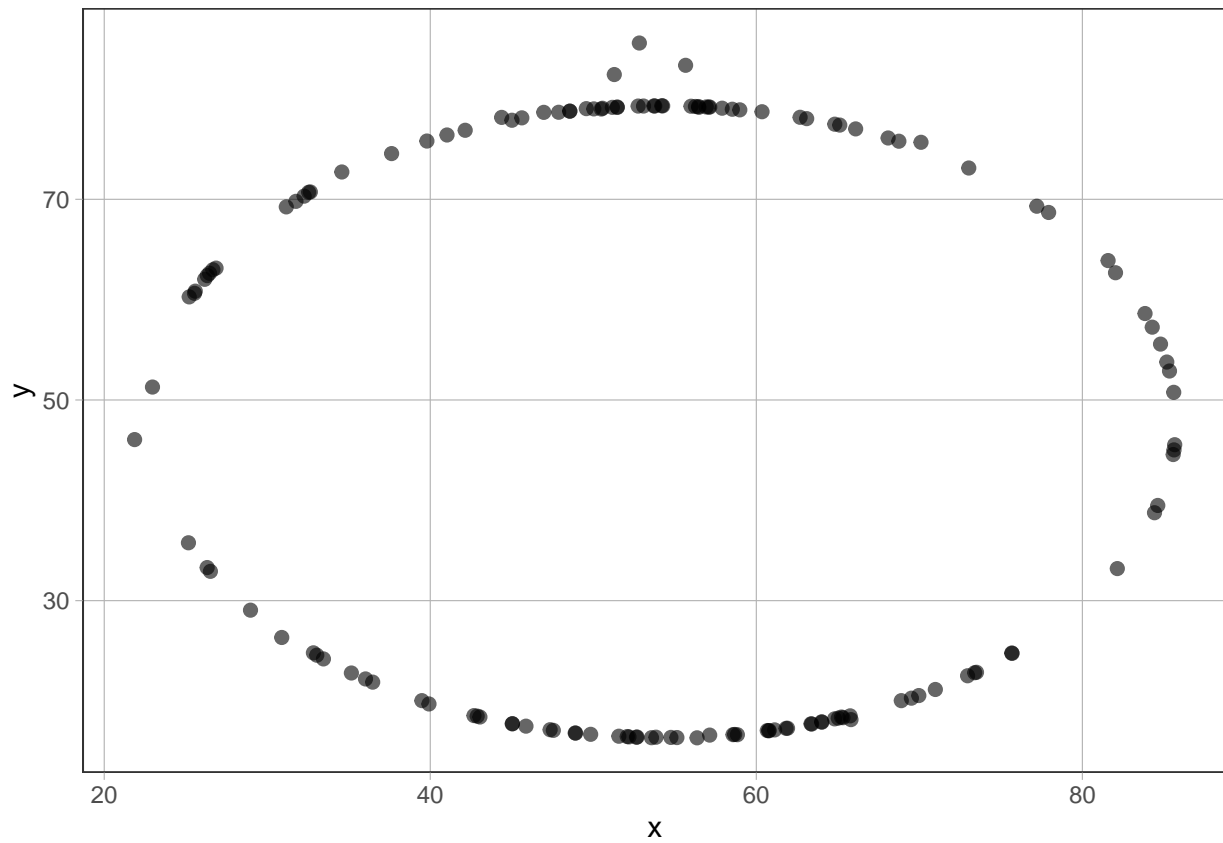
```
### 3 ###
```

```
#library(ggplot2)
```

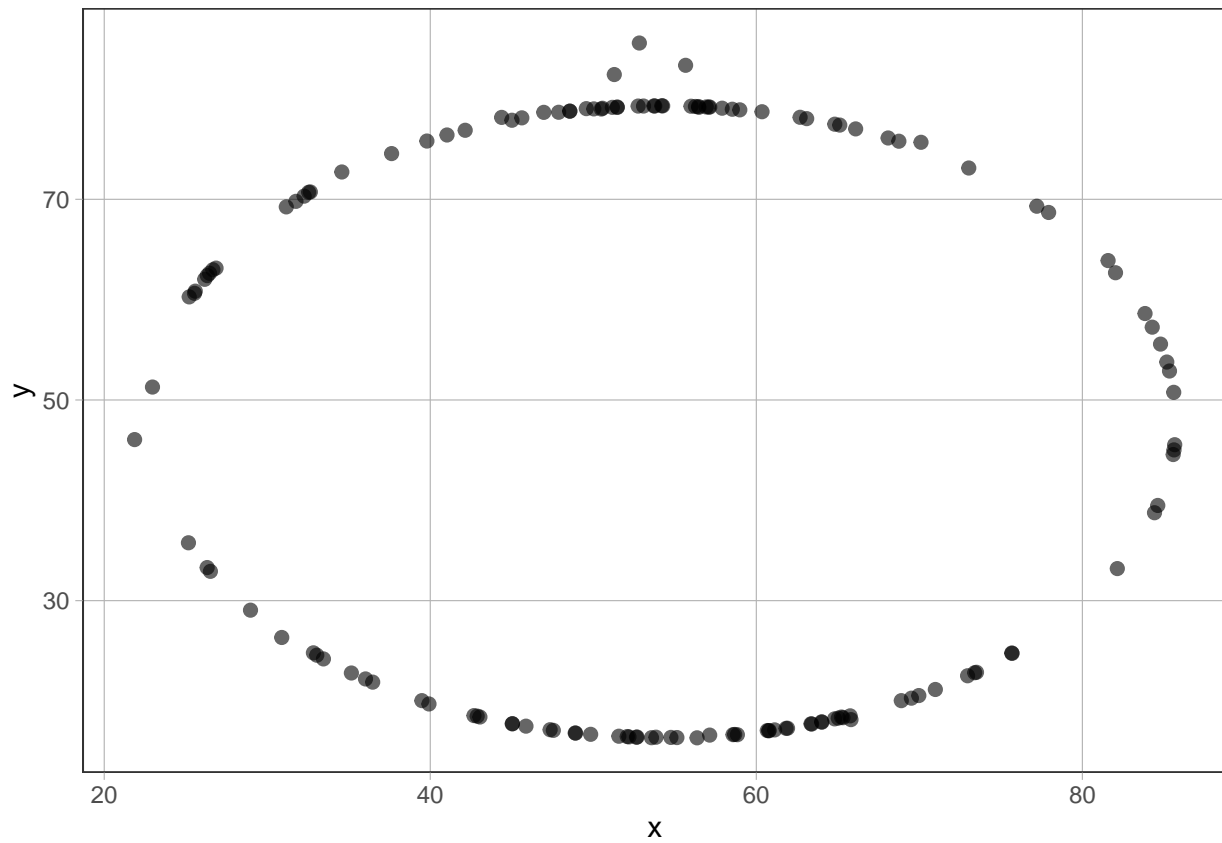
```
temp_data <- lab1_data %>%
```

```
  filter(dataset == "circle")
```

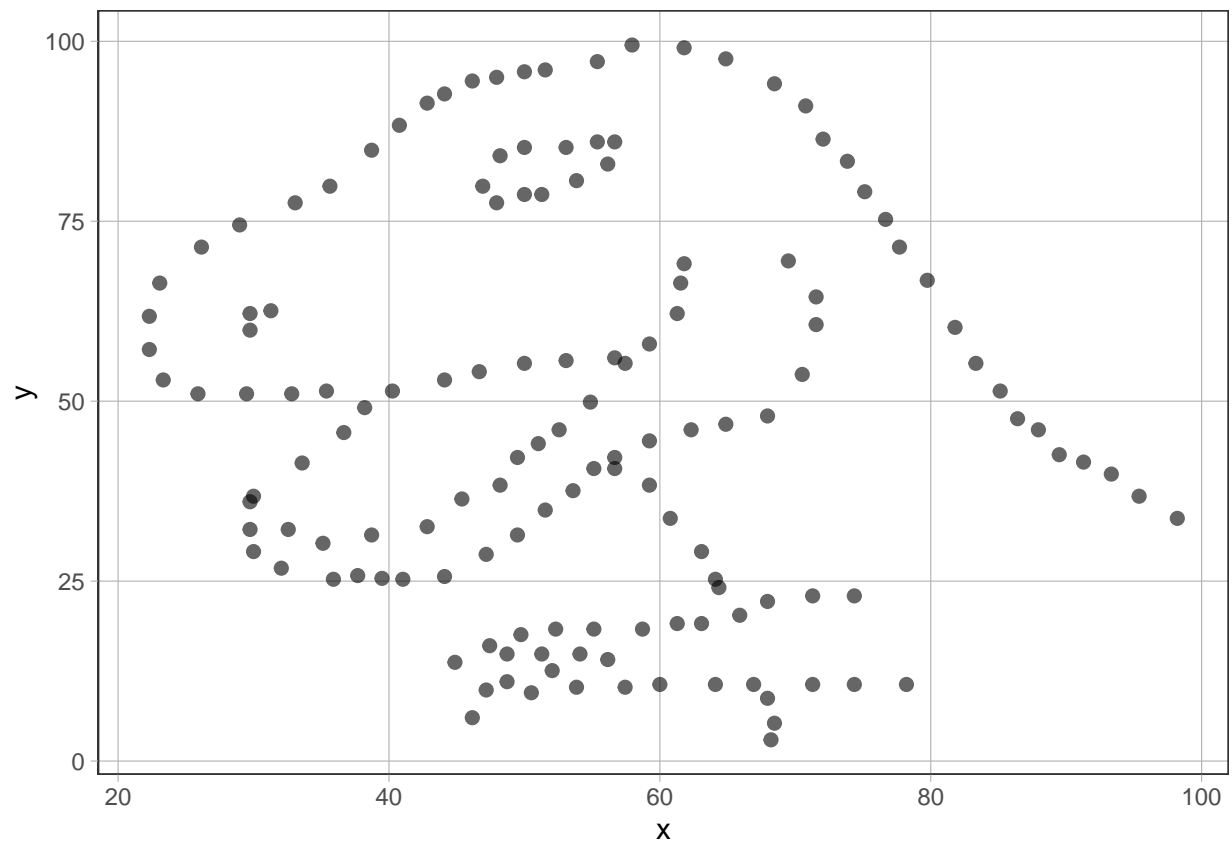
```
ggplot(data = temp_data, aes(x = x, y = y)) +
  geom_point()
```



```
gf_point (y ~ x, data = temp_data)
```



```
#wow this is cute
dinodata <- lab1_data %>%
  filter(dataset == "dino")
ggplot(data = dinodata, aes(x = x, y = y)) +
  geom_point()
```



```
gf_point (y ~ x, data = dinodata)
```

