random_script.R

athanasm

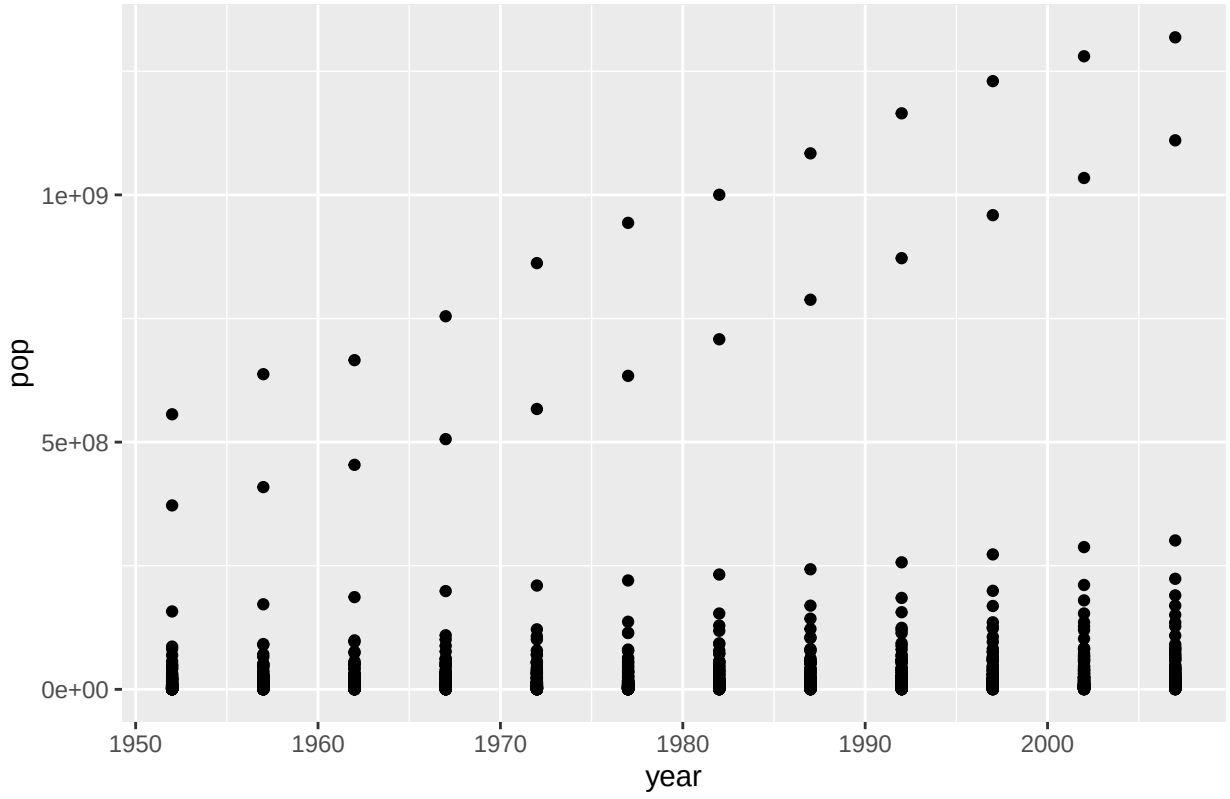
2020-05-11

```
# Get an overview of the data
gaminder_data <- gapminder::gapminder
summary(gaminder_data)
```

```
##         country        continent        year         lifeExp
##  Afghanistan:  12   Africa  :624   Min.   :1952   Min.   :23.60
##  Albania    :  12   Americas:300   1st Qu.:1966   1st Qu.:48.20
##  Algeria    :  12   Asia    :396   Median :1980   Median :60.71
##  Angola     :  12   Europe  :360   Mean   :1980   Mean   :59.47
##  Argentina  :  12   Oceania : 24   3rd Qu.:1993   3rd Qu.:70.85
##  Australia  :  12                  Max.   :2007   Max.   :82.60
##  (Other)    :1632
##       pop              gdpPercap
##  Min.   :6.001e+04   Min.   :   241.2
##  1st Qu.:2.794e+06   1st Qu.:  1202.1
##  Median :7.024e+06   Median :  3531.8
##  Mean   :2.960e+07   Mean   :  7215.3
##  3rd Qu.:1.959e+07   3rd Qu.:  9325.5
##  Max.   :1.319e+09   Max.   :113523.1
##
```

```
# Plot the variables of interest
library(ggplot2)
ggplot(gaminder_data,
       aes(year, pop)) +
  geom_point() +
  labs(title = "Example output")
```

Example output




```
# Run a linear model
model1 <- lm(pop ~ year, data = gaminder_data)
library(broom)

# Inspect the model summary table
tidy(model1)
```

```
## # A tibble: 2 x 5
##   term           estimate  std.error statistic  p.value
##   <chr>             <dbl>      <dbl>     <dbl>    <dbl>
## 1 (Intercept) -972185807. 294031308.     -3.31 0.000965
## 2 year            506081.    148533.      3.41 0.000672
```