Asgmnt 2: Creating Anscombe's Quartet of Visualizations

A. Timestamp

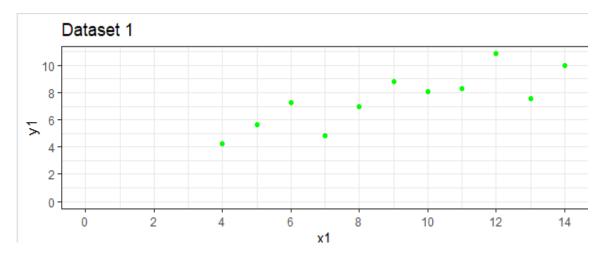
```
1 ---
2 title: "Asgmnt2"
3 author: "Student"
4 date: '2022-09-11'
5 output: html_document
```

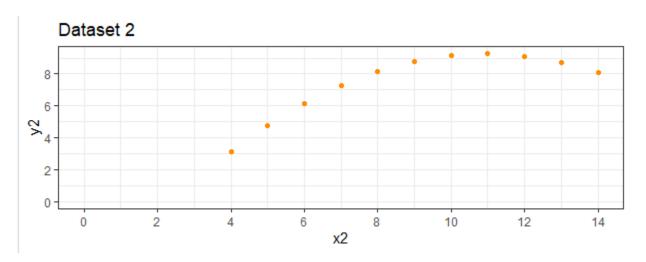
B. Installing Anscombe dataset and Summary

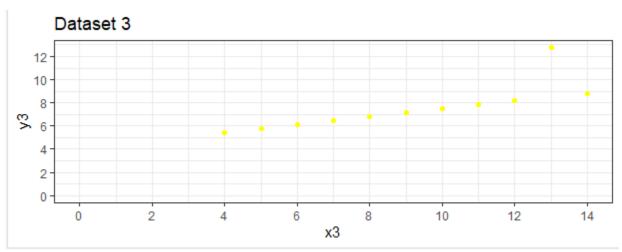
```
12 - ```{r setup, include =FALSE}
13 library(datasets)
14 data<-anscombe
15 summary(data)
16 - `
> library(datasets)
> data<-anscombe
> summary(data)
       х1
                      x2
                                     х3
 Min.
        : 4.0
                Min.
                      : 4.0
                               Min.
                                     : 4.0
 1st Qu.: 6.5
                1st Qu.: 6.5
                               1st Qu.: 6.5
 Median: 9.0
               Median : 9.0
                               Median: 9.0
 Mean
       : 9.0
                Mean
                      : 9.0
                               Mean
                                     : 9.0
                3rd Qu.:11.5
 3rd Qu.:11.5
                               3rd Qu.:11.5
        :14.0
                       :14.0
                Max.
                               Max.
                                      :14.0
       x4
                    у1
                                      y2
        : 8
              Min.
                     : 4.260
                                      :3.100
 Min.
                               Min.
 1st Qu.: 8
              1st Qu.: 6.315
                               1st Qu.:6.695
 Median: 8
              Median : 7.580
                               Median :8.140
       : 9
                    : 7.501
                                       :7.501
 Mean
              Mean
                               Mean
 3rd Qu.: 8
              3rd Qu.: 8.570
                               3rd Qu.:8.950
 мах.
       :19
              Max.
                     :10.840
                               Max. :9.260
       у3
                       y4
        : 5.39
                 Min.
                         : 5.250
 Min.
 1st Qu.: 6.25
                 1st Qu.: 6.170
                 Median : 7.040
 Median : 7.11
 Mean
        : 7.50
                 Mean
                       : 7.501
                 3rd Qu.: 8.190
 3rd Qu.: 7.98
        :12.74
                        :12.500
 мах.
                 мах.
```

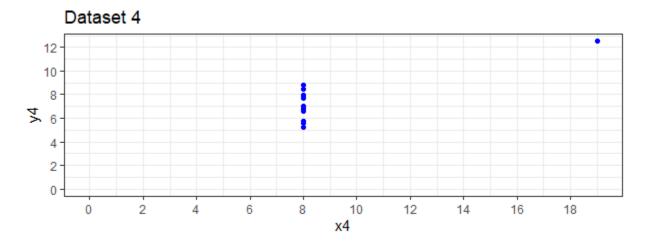
C. Creating scatter Plots

```
p1 <- ggplot(anscombe) +
  geom\_point(aes(x1, y1), color = "green", size = 1.5) +
  scale_x_continuous(breaks = seq(0,20,2)) +
  scale_y = seq(0,12,2) +
 expand_limits(x = 0, y = 0) + labs(x = "x1", y = "y1", title = "Dataset 1" ) +
  theme_bw()
р1
p2 <- ggplot(anscombe) +
  geom_point(aes(x2, y2), color = "darkorange", size = 1.5) +
  scale_x_continuous(breaks = seq(0,20,2)) +
  scale_y_continuous(breaks = seq(0,12,2)) +
  expand_limits(x = 0, y = 0) +
  labs (x = "x2", y = "y2")
       title = "Dataset 2" ) +
 theme_bw()
p2
p3 <- ggplot(anscombe) +
  geom_point(aes(x3, y3), color = "yellow", size = 1.5) +
  scale_x_continuous(breaks = seq(0,20,2)) +
  scale_y_continuous(breaks = seq(0,12,2)) +
  expand_limits(x = 0, y = 0) +
  labs(x = "x3", y = "y3",
title = "Dataset 3") +
  theme_bw()
р3
p4 <- ggplot(anscombe) +
  geom\_point(aes(x4, y4), color = "blue", size = 1.5) +
  scale_x_continuous(breaks = seq(0,20,2)) +
  scale_y = continuous(breaks = seq(0,12,2)) +
  expand_limits(x = 0, y = 0) +
  labs(x = "x4", y = "y4",
title = "Dataset 4" ) +
 theme_bw()
```



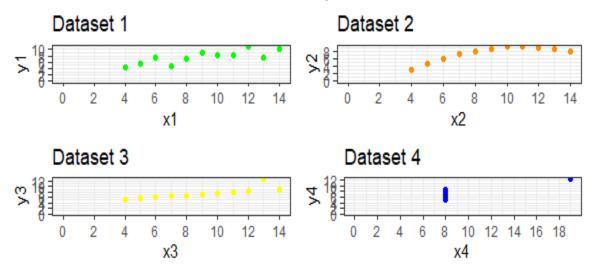






D. Anscombe's Quartet

Anscombe's Quartet



E. Fitting Linear model

