

chickwts

Mansour

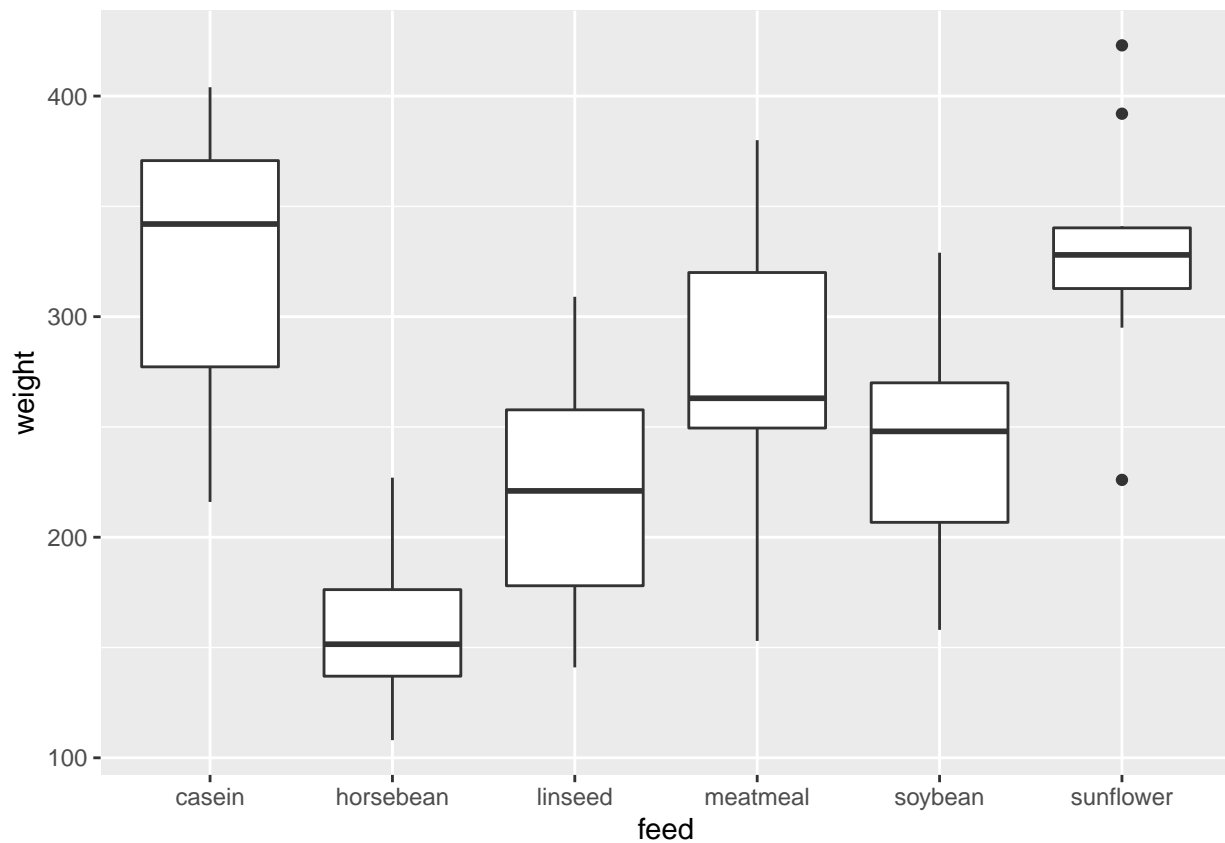
10/17/2020

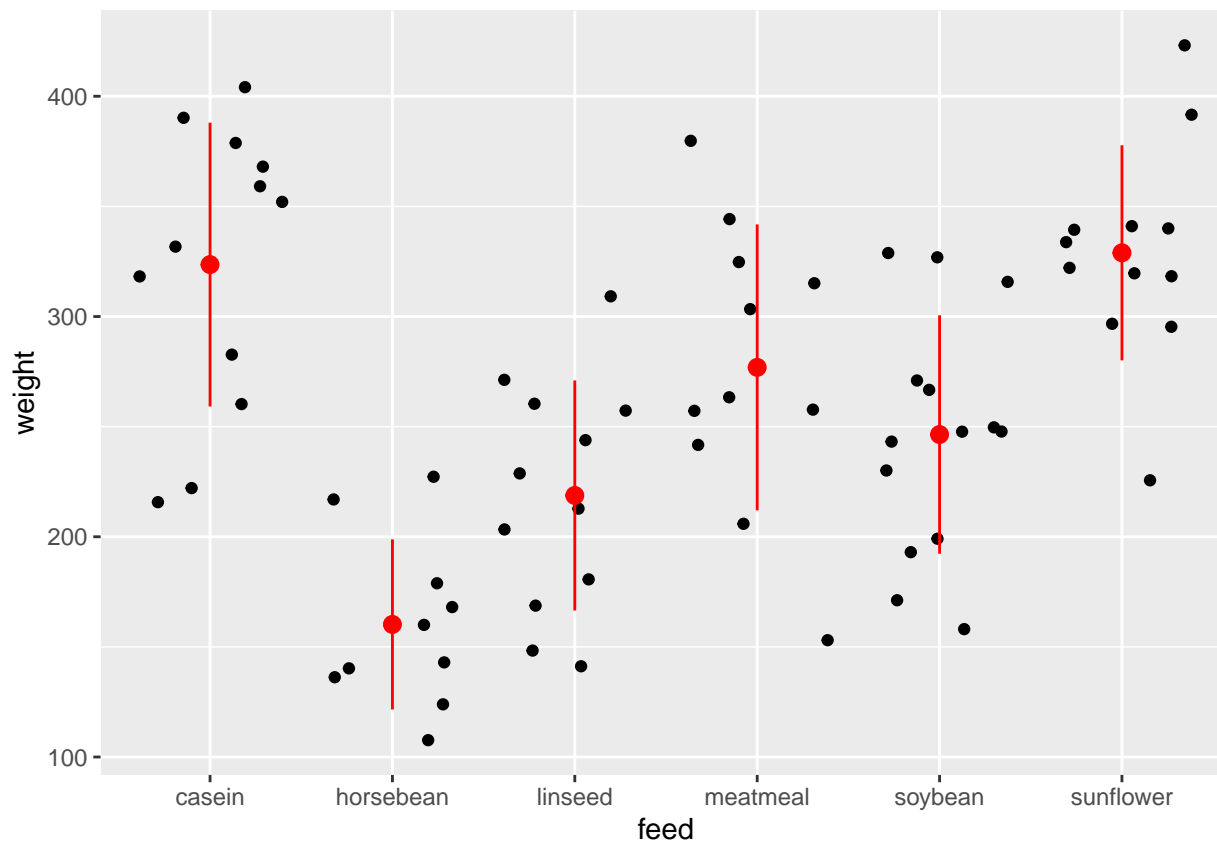
Compare different food effects on the growth rate of chickens

```
## # A tibble: 6 x 4
##   feed      n average   SD
##   <fct>    <int>   <dbl> <dbl>
## 1 casein     12    324.  64.4
## 2 horsebean  10    160.  38.6
## 3 linseed    12    219.  52.2
## 4 meatmeal   11    277.  64.9
## 5 soybean    14    246.  54.1
## 6 sunflower  12    329.  48.8
```

below plots gives more insights about food effects on chicken weights

PLOTS





measure the impact of food on chicken weight

```
##
## Call:
## lm(formula = weight ~ feed, data = chickwts)
##
## Coefficients:
## (Intercept) feedhorsebean feedlinseed feedmeatmeal feedsoybean
##      323.583    -163.383    -104.833    -46.674    -77.155
## feedsunflower
##       5.333

## Analysis of Variance Table
##
## Response: weight
##      Df Sum Sq Mean Sq F value    Pr(>F)
## feed   5  231129   46226  15.365 5.936e-10 ***
## Residuals 65  195556    3009
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Call:

```
lm(formula = weight ~ feed, data = chickwts)
```

Coefficients:

```
(Intercept) feedhorsebean feedlinseed feedmeatmeal feedsoybean
```

```
323.583 -163.383 -104.833 -46.674 -77.155
```

```
feedsunflower
```

```
5.333
```

```
““
```