Lab 2: Data Visulization

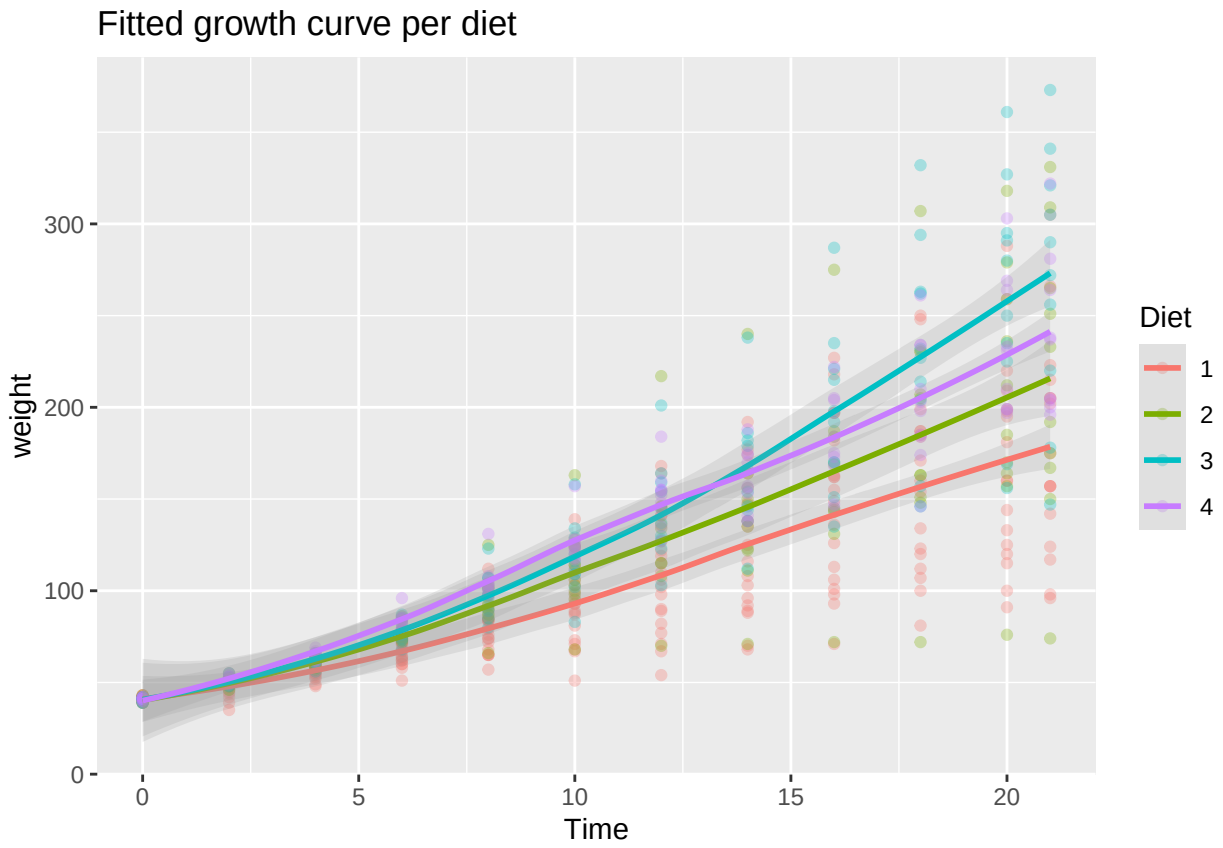
July 8, 2020

Today's agenda: data visualization with ggplot2. Get help on dataset ChickWeight by `?ChickWeight`. Play with the following R code to figure out what we are doing here.

First plot

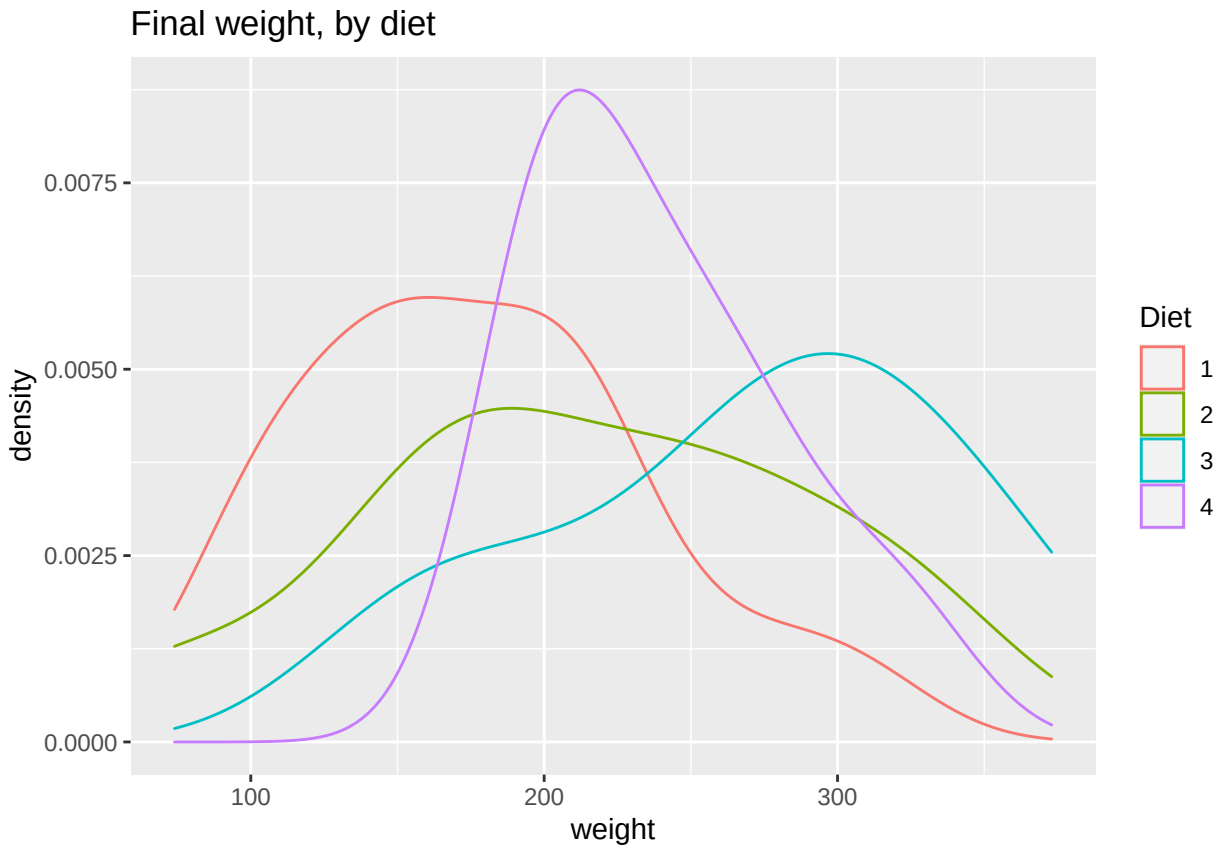
```
p1 <- ggplot(ChickWeight, aes(x=Time, y=weight, colour=Diet)) +
    geom_point(alpha=.3) +
    geom_smooth(alpha=.2, size=1) +
    ggtitle("Fitted growth curve per diet")
p1
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



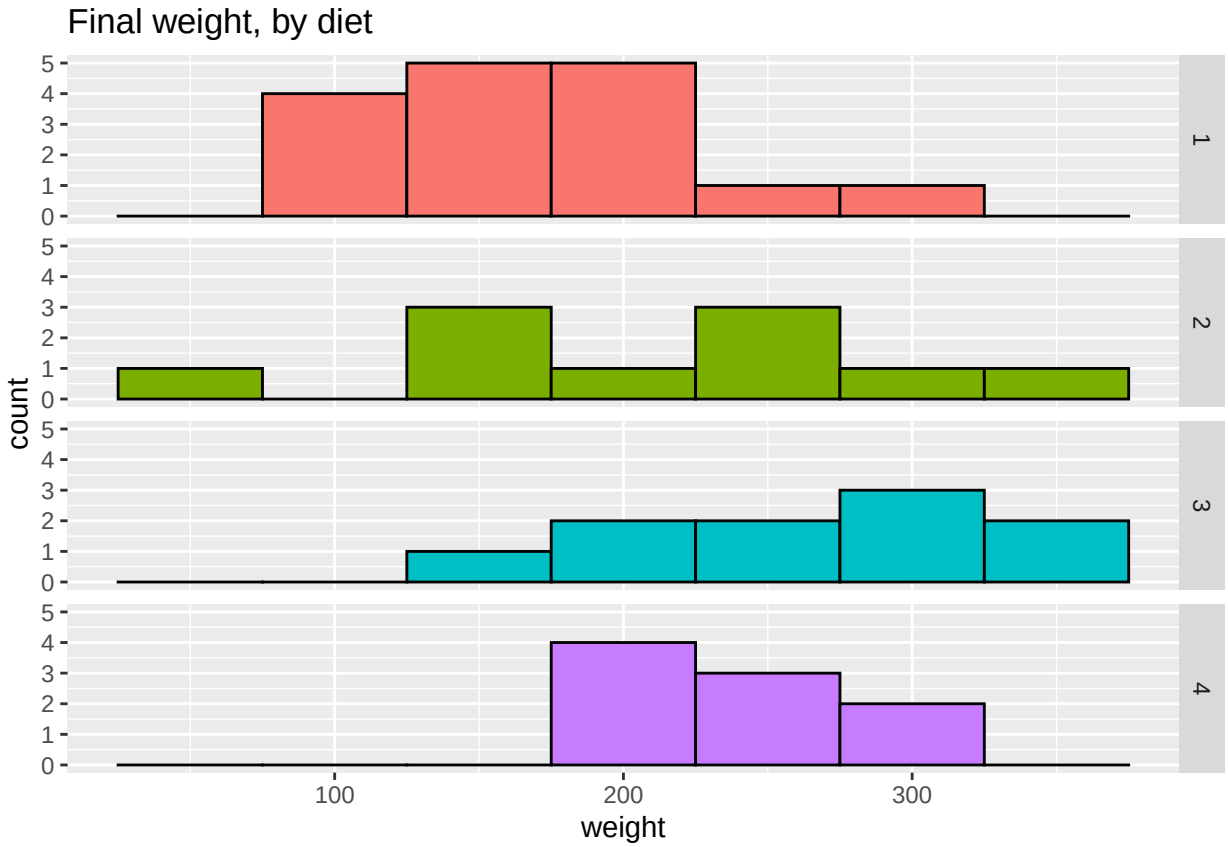
Second plot

```
p2 <- ggplot(subset(ChickWeight, Time==21), aes(x=weight, colour=Diet)) +
    geom_density() +
    ggtitle("Final weight, by diet")
p2
```



Third plot

```
p3 <- ggplot(subset(ChickWeight, Time==21), aes(x=weight, fill=Diet)) +
    geom_histogram(colour="black", binwidth=50) +
    facet_grid(Diet ~ .) +
    ggtitle("Final weight, by diet") +
    theme(legend.position="none")        # No legend (redundant in this graph)
p3
```


Final weight, by diet
count
weight
100
200
300
1
2
3
4