

# Lab 2: Data Visualization

2022/06/30

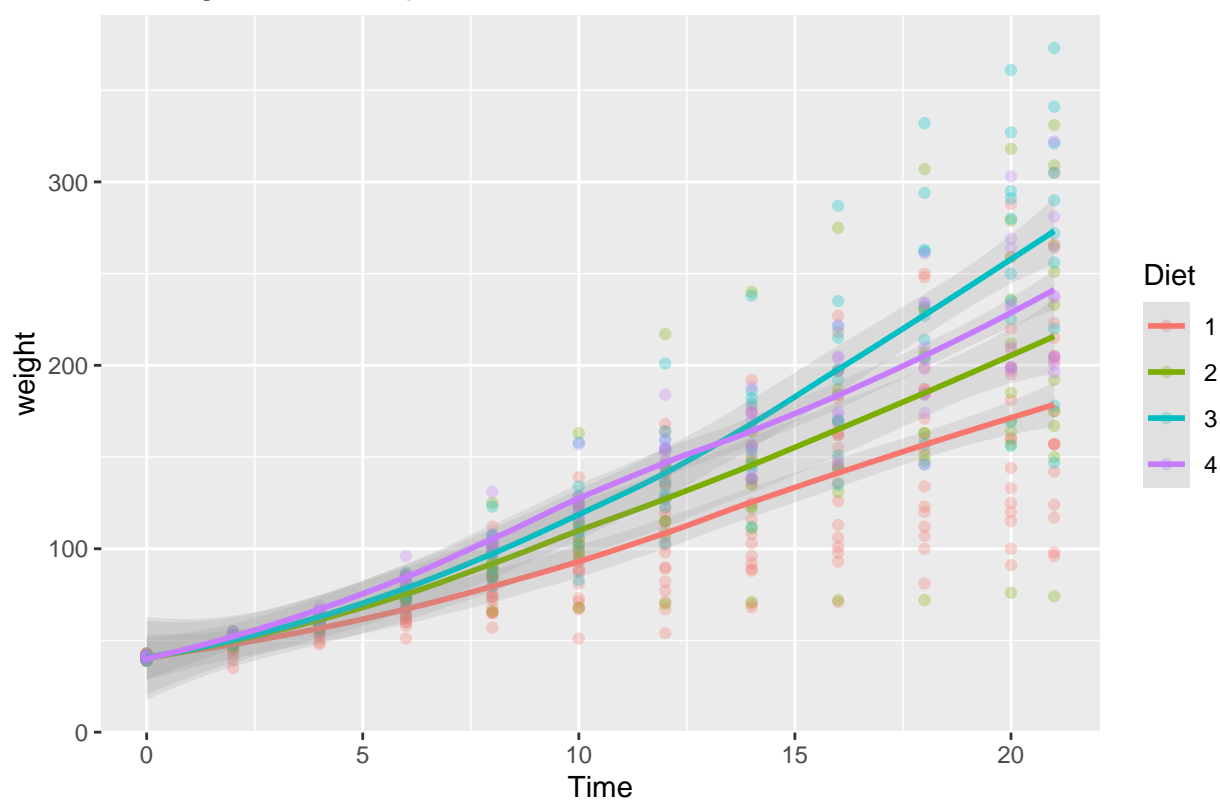
Today's agenda: data visualization with ggplot2. Get help on dataset ChickWeight by `?ChickWeight`. Play with the following R code to figure out what we are doing here.

## 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'
```

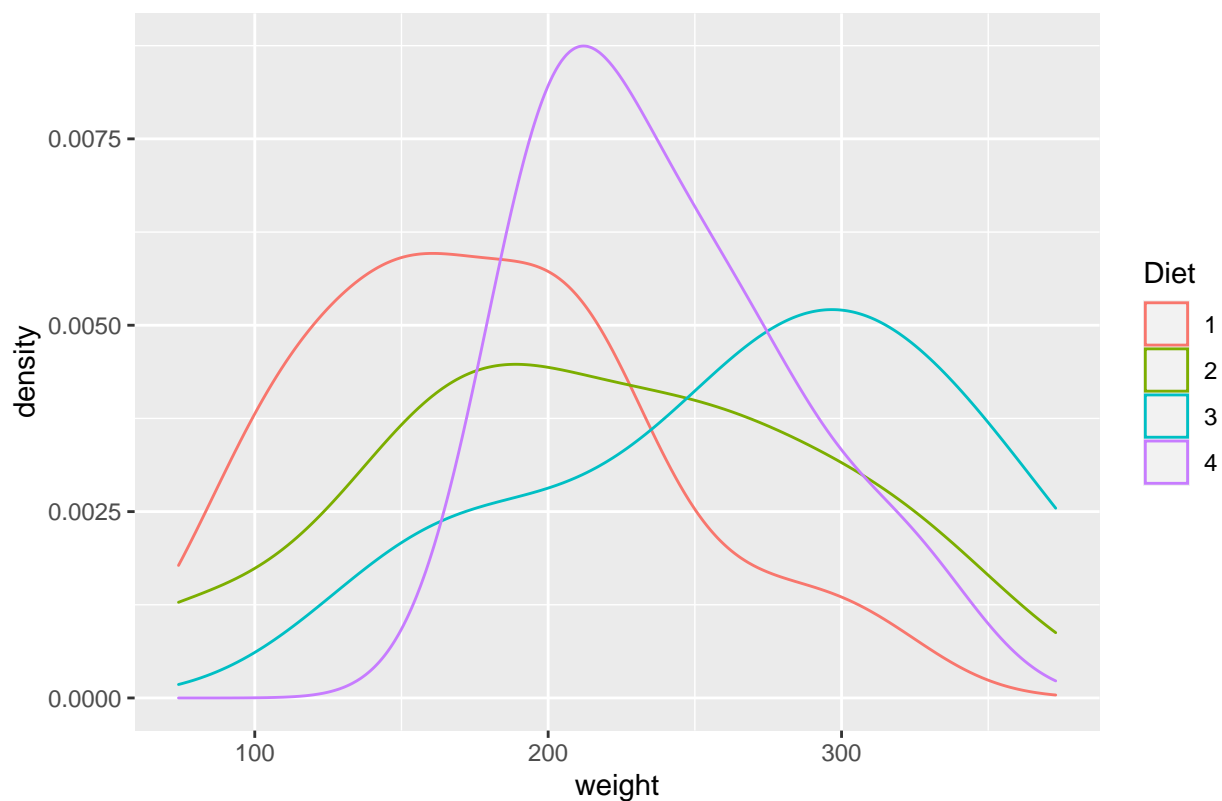
Fitted growth curve per diet



Second plot

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

Final weight, by diet



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
```

