# Graphic\_Exploration

#### **Packages**

#### Data

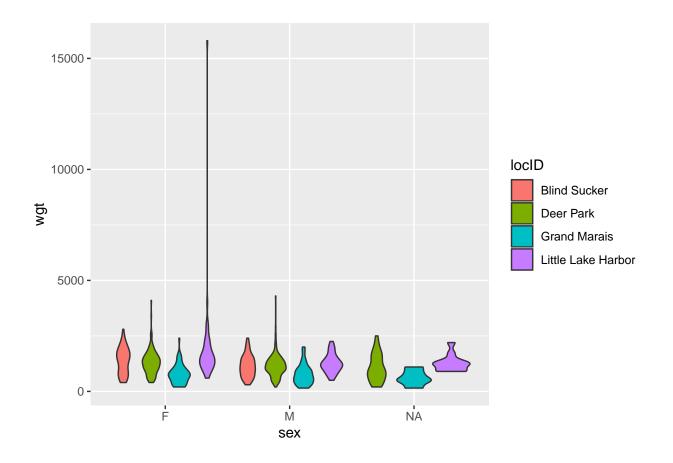
```
setwd("~/Desktop/WinQ_2021/Fish497/Assignment-5")
fish_data <- read.csv("data/siscowet.csv")</pre>
```

## **Figures**

Violin Plot of Sex vs Weight (exploratory)

```
p = ggplot(fish_data, aes( x = sex, y = wgt, fill = locID))
p + geom_violin()
```

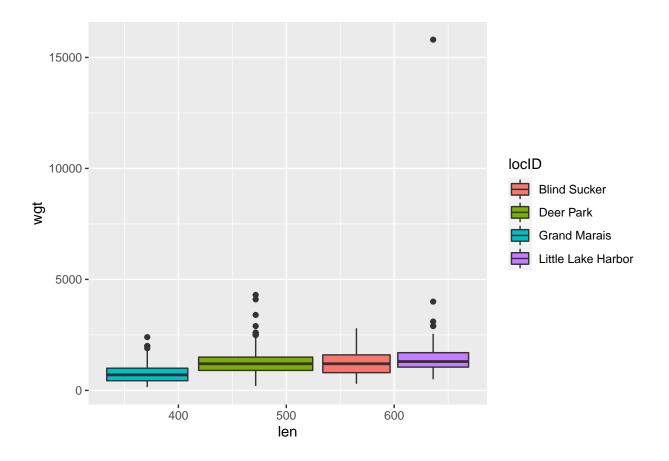
## Warning: Removed 1 rows containing non-finite values (stat\_ydensity).



### Box Plot of Length vs Weight (exploratory)

```
p = ggplot(fish_data, aes( x = len, y = wgt, fill = locID))
p + geom_boxplot()
```

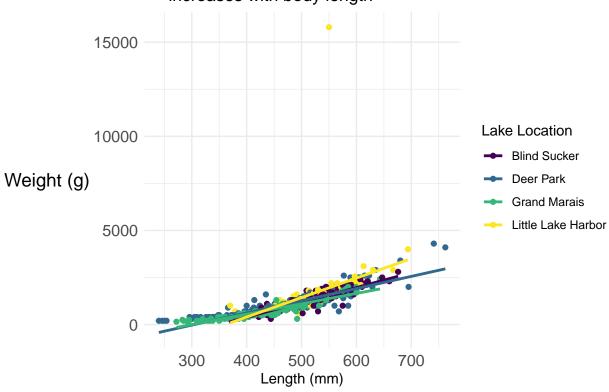
## Warning: Removed 1 rows containing non-finite values (stat\_boxplot).



#### Length vs Weight (expository)

```
## 'geom_smooth()' using formula 'y ~ x'
## Warning: Removed 1 rows containing non-finite values (stat_smooth).
## Warning: Removed 1 rows containing missing values (geom_point).
```

# Siscowet Lake Trout body mass increases with body length



#### Length vs Weight Subplots (expository)

```
## 'geom_smooth()' using formula 'y ~ x'
## Warning: Removed 1 rows containing non-finite values (stat_smooth).
## Warning: Removed 1 rows containing missing values (geom_point).
```

# Siscowet Lake Trout body mass increases with body length

