

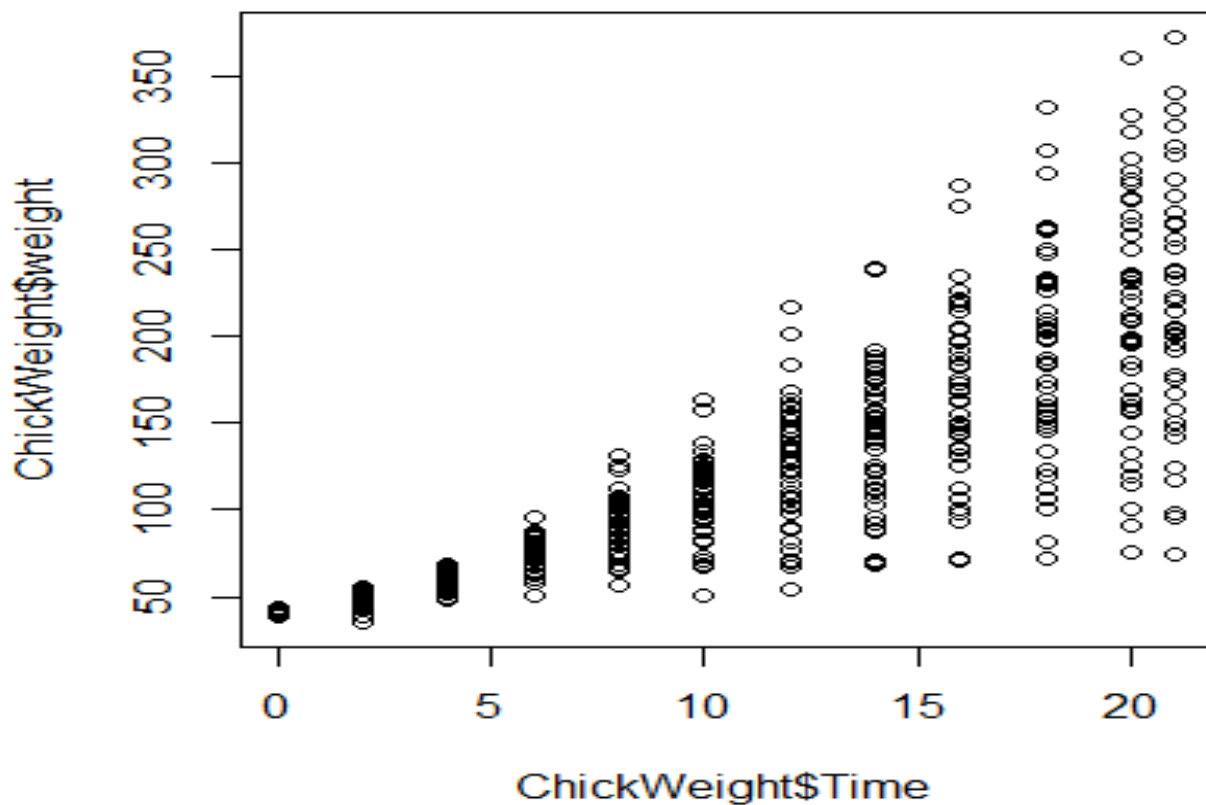
# Assignment 1

## Advanced Computational Methods for Data Science - CS/STAT 6301.012

The given datasets were analysed by creating various plots and summaries.

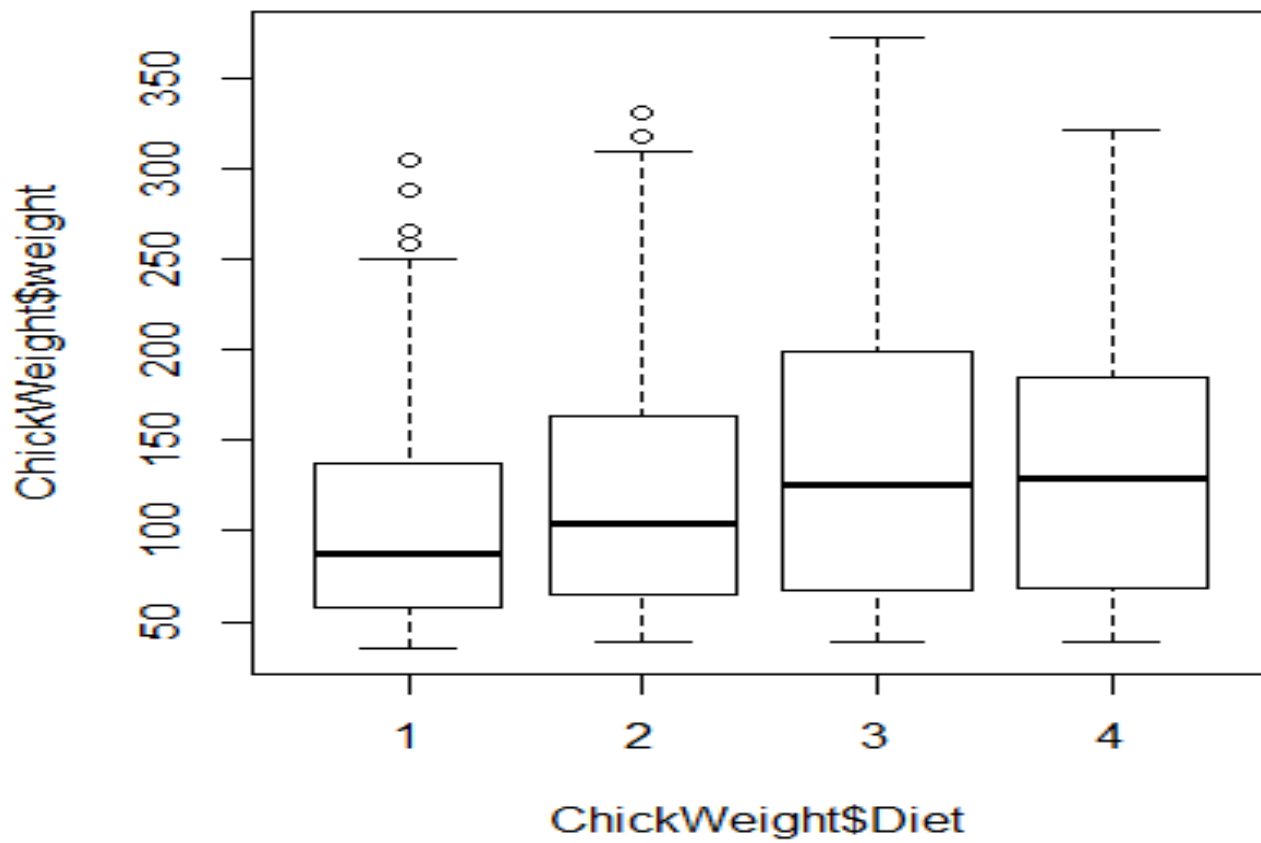
Below are the plots

### 1. Dataset : ChickWeight

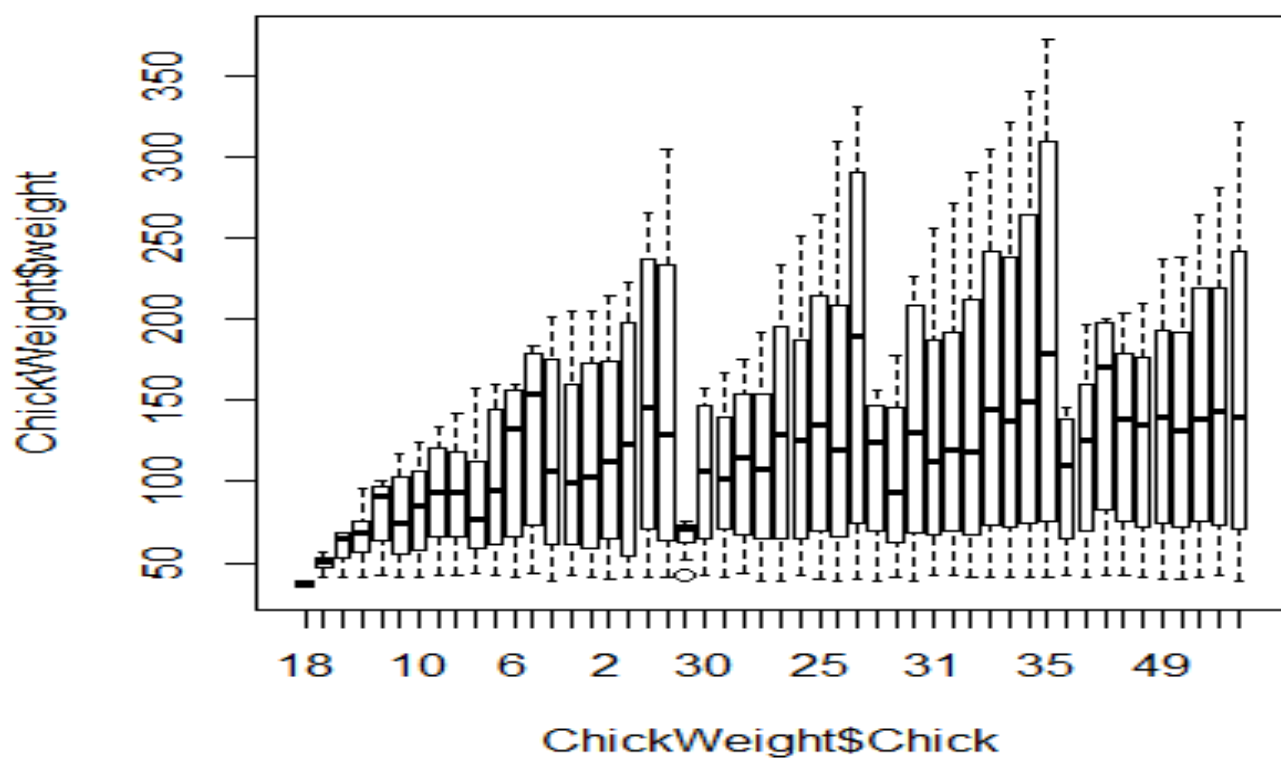


weight	Time	Chick	Diet
Min. : 35.0	Min. : 0.00	13 : 12	1:220
1st Qu.: 63.0	1st Qu.: 4.00	9 : 12	2:120
Median :103.0	Median :10.00	20 : 12	3:120
Mean :121.8	Mean :10.72	10 : 12	4:118
3rd Qu.:163.8	3rd Qu.:16.00	17 : 12	
Max. :373.0	Max. :21.00	19 : 12	
		(Other):506	

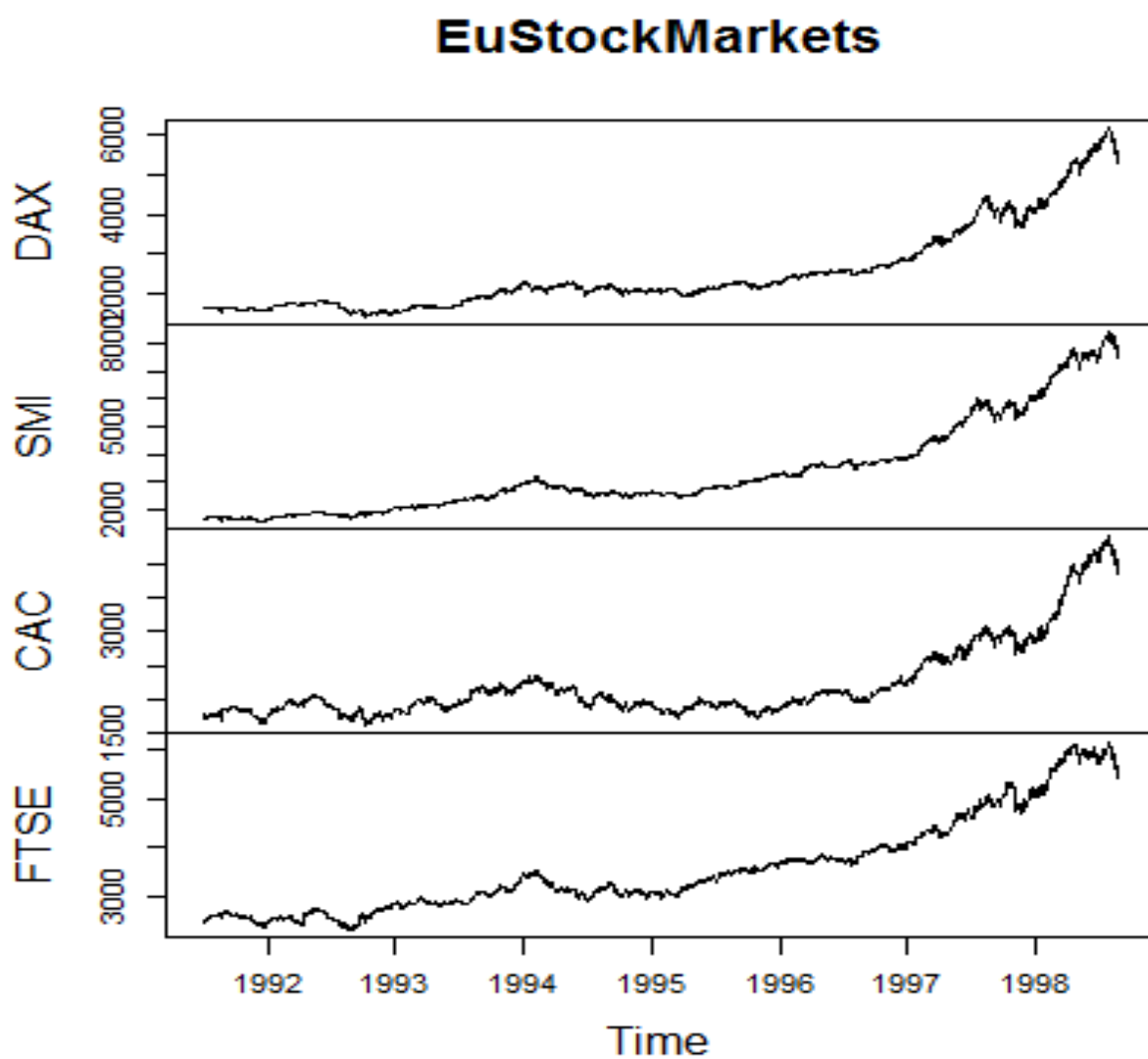
As we can see from the plot above, the weights of the chicks are found to be increasing with time.



We can see some outliers in the above plot.

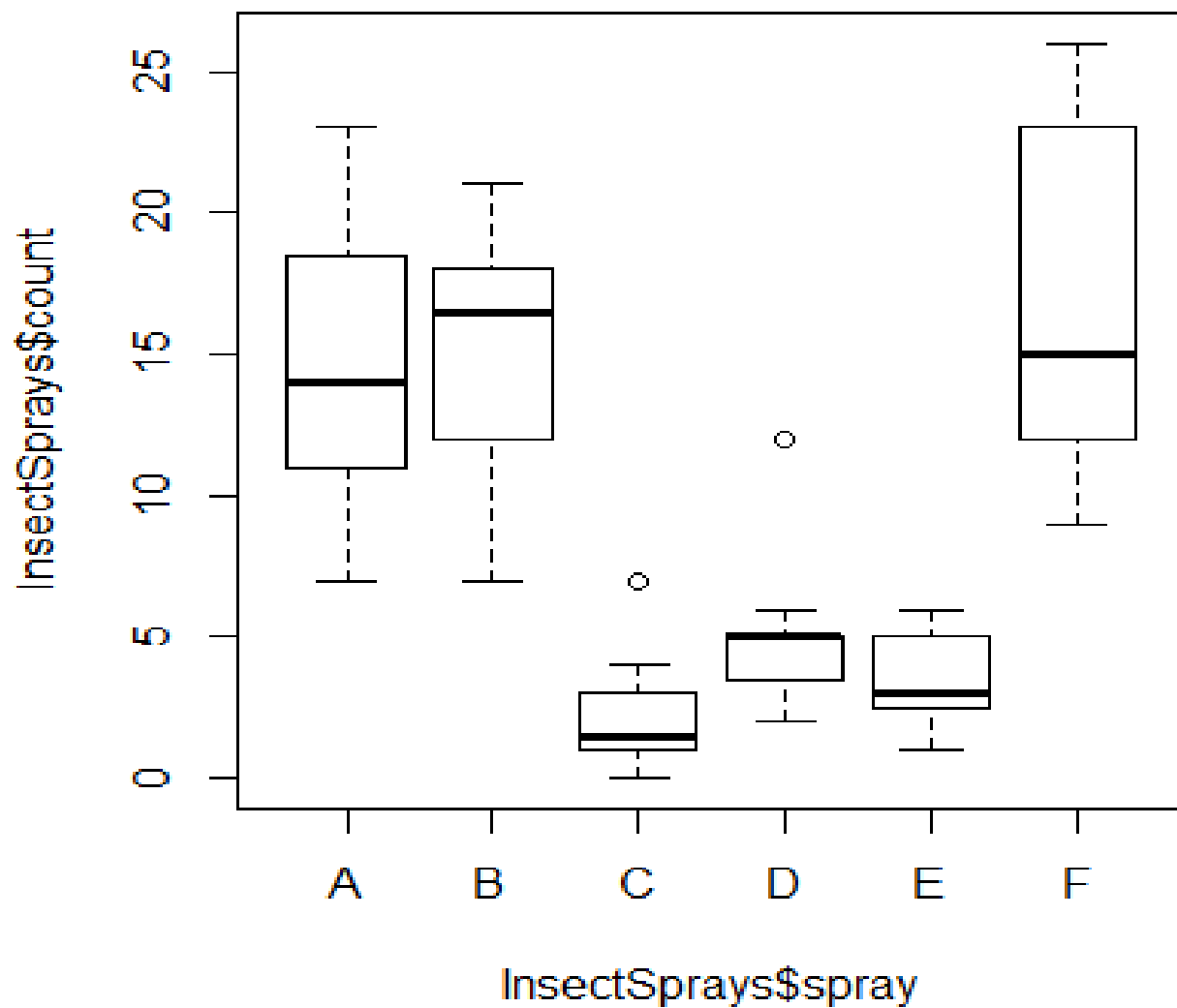


## 2. Dataset : EuStockMarkets



DAX	SMI	CAC	FTSE
Min. :1402	Min. :1587	Min. :1611	Min. :2281
1st Qu.:1744	1st Qu.:2166	1st Qu.:1875	1st Qu.:2843
Median :2141	Median :2796	Median :1992	Median :3247
Mean :2531	Mean :3376	Mean :2228	Mean :3566
3rd Qu.:2722	3rd Qu.:3812	3rd Qu.:2274	3rd Qu.:3994
Max. :6186	Max. :8412	Max. :4388	Max. :6179

### 3. Dataset: InsectSprays



	count	spray
Min.	: 0.00	A:12
1st Qu.	: 3.00	B:12
Median	: 7.00	C:12
Mean	: 9.50	D:12
3rd Qu.	:14.25	E:12
Max.	:26.00	F:12