

CodeClearnig-July82024

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Load Libraries

Load and visualize data

```
1 BC <- read_excel("~/Documents/PhD/BC_Natural_HistoryNote/BodyConditionDataBook.xlsx")
2
3 #| include: false
4 #View(BC)
5
6 head(BC)
```

A tibble: 6 x 13

	Score_Average	Score_Average(NOTSTA~1	Head	Scapula	Thoracic_Region	Pelvic_Bone
	<dbl>	<chr>	<chr>	<chr>	<chr>	<chr>
1	0.562	1.125	1	1	2	0.5
2	0.375	0.75	1	1	1	0
3	0.562	1.125	1	1	2	0.5
4	0.5	1	1	1	2	0
5	0.5	1	1	1	2	0
6	0.562	1.125	1	1	2	0.5

i abbreviated name: 1: `Score_Average(NOTSTANDARDIZED)`
i 7 more variables: D_W <chr>, `Dry/Wet_Season` <chr>, Date_Range <chr>,
ID <chr>, Age <chr>, Sex <chr>, AgeSex <chr>

```
1 BC <- transform(BC, Score_Average = as.numeric(Score_Average))
2 BC <- transform(BC, Head = as.numeric(Head))
```

Warning in eval(substitute(list(...)), `_data`, parent.frame()): NAs introduced by coercion

```
1 BC <- transform(BC, Scapula = as.numeric(Scapula))
```

Warning in eval(substitute(list(...)), `_data`, parent.frame()): NAs introduced by coercion

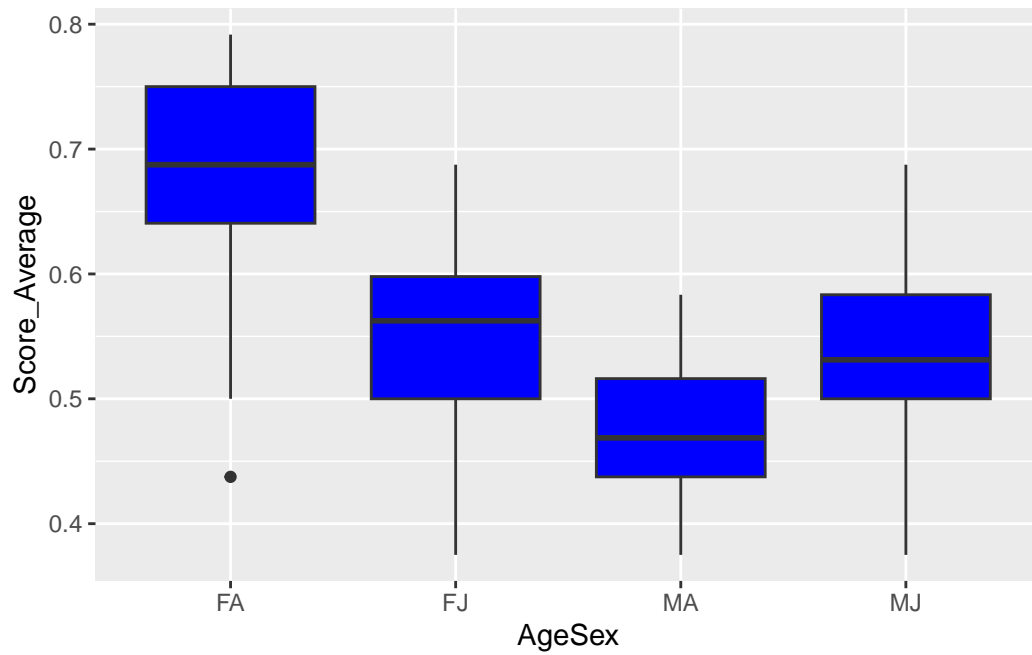
```
1 BC <- transform(BC, Thoracic_Region = as.numeric(Thoracic_Region))
```

Warning in eval(substitute(list(...)), `_data`, parent.frame()): NAs introduced by coercion

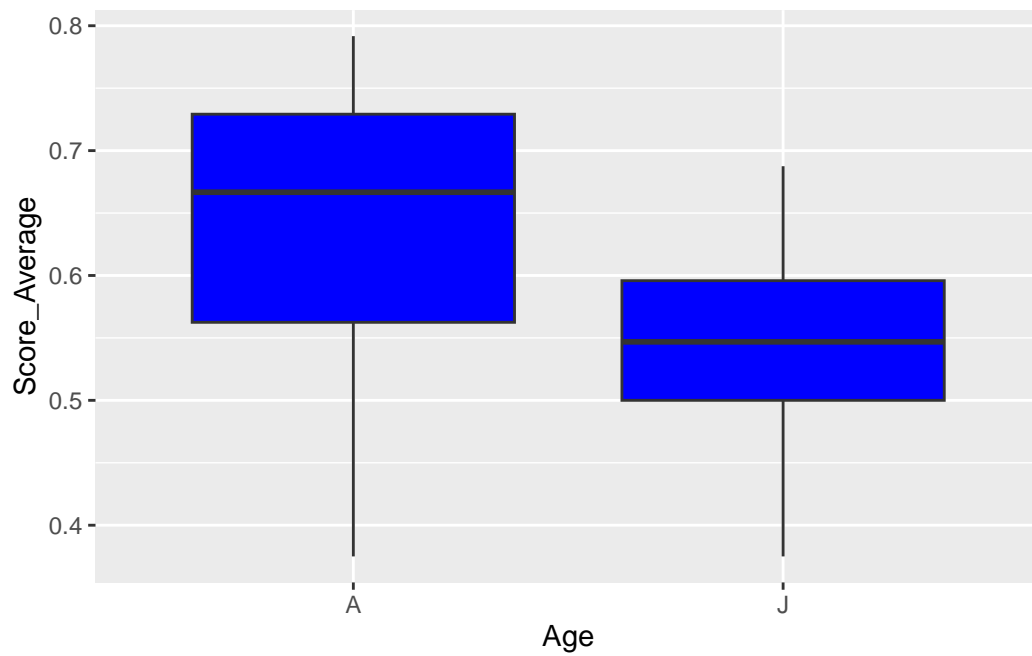
```
1 BC <- transform(BC, Pelvic_Bone = as.numeric(Pelvic_Bone))
```

Warning in eval(substitute(list(...)), `_data`, parent.frame()): NAs introduced by coercion

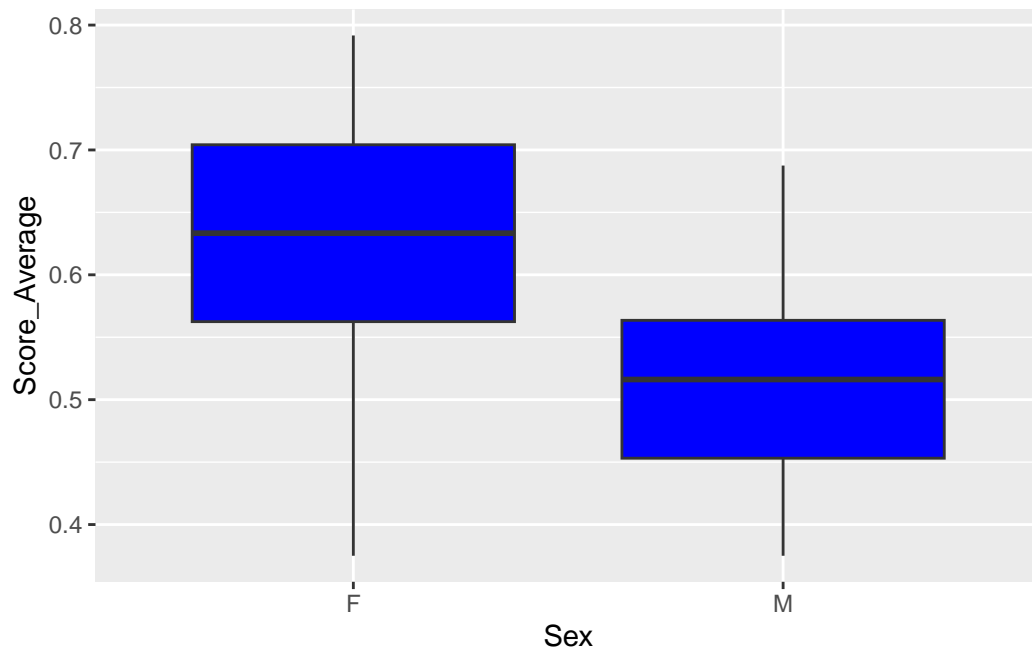
```
1 BC <- transform(BC, D_W = as.factor(D_W))
2 BC <- transform(BC, Dry.Wet_Season = as.factor(Dry.Wet_Season))
3 BC <- transform(BC, Age = as.factor(Age))
4 BC <- transform(BC, Sex = as.factor(Sex))
5 BC <- transform(BC, AgeSex = as.factor(AgeSex))
6
7 BC <- na.omit(BC)
8 BC$Nobs<- c(1:125)
9
10 ggplot(BC, aes(x=AgeSex, y=Score_Average)) + geom_boxplot(fill='blue')
```



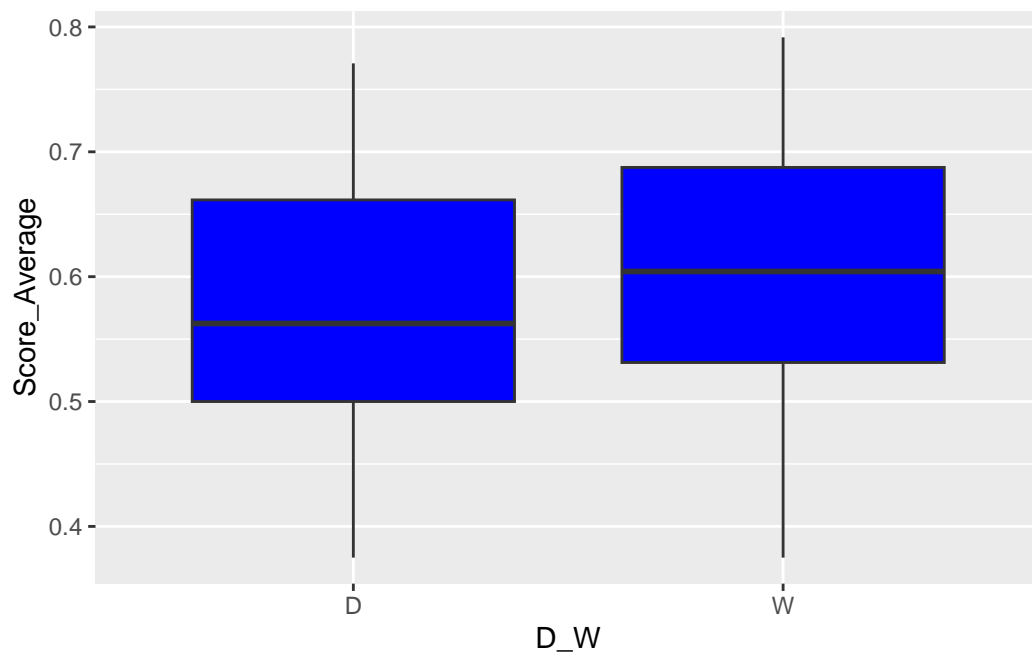
```
1 ggplot(BC, aes(x=Age, y=Score_Average)) + geom_boxplot(fill='blue')
```



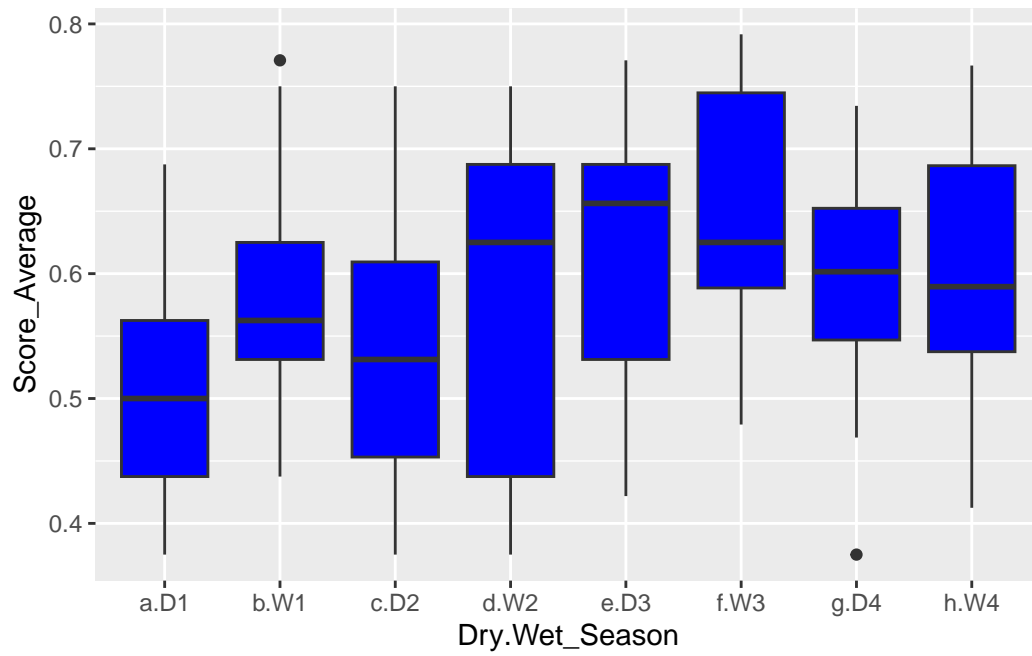
```
1 ggplot(BC, aes(x=Sex, y=Score_Average)) + geom_boxplot(fill='blue')
```



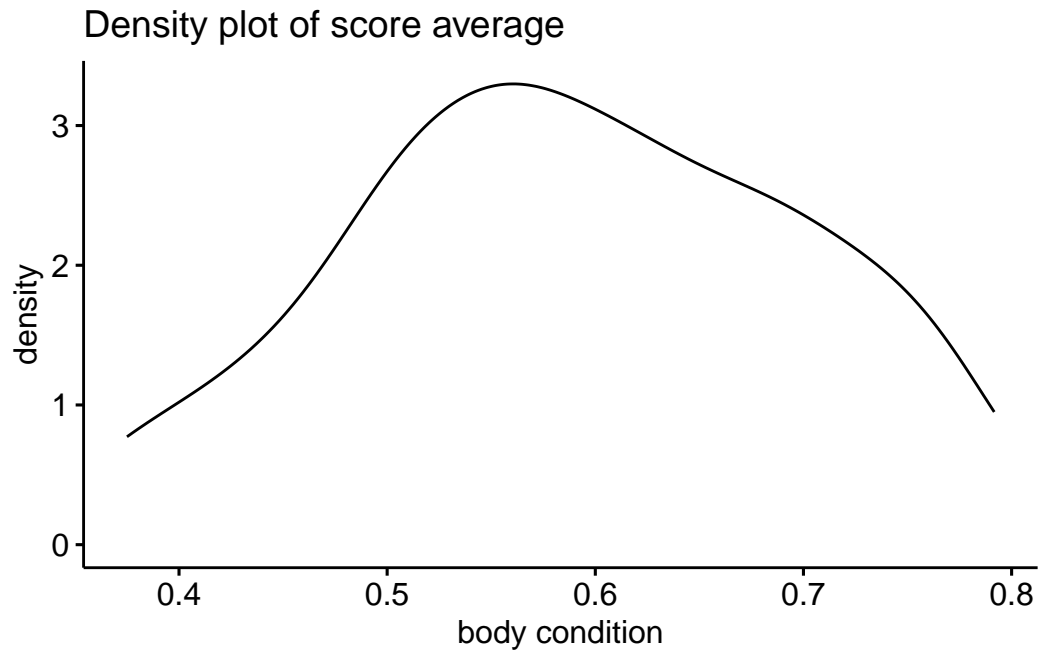
```
1 ggplot(BC, aes(x=D_W, y=Score_Average)) + geom_boxplot(fill='blue')
```



```
1 ggplot(BC, aes(x=Dry.Wet_Season, y=Score_Average)) + geom_boxplot(fill='blue')
```



```
1 ggdensity(BC$Score_Average,
2           main = "Density plot of score average",
3           xlab = "body condition")
```



```
1 ggqqplot(BC$Score_Average)
```

