## Markdown\_practice

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directory, which git tracks.

| 0.1     | Question 1: Explain the following                                                                                                                                                                                                             | 1 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 0.2     | into your R markdown file. Some of you have already been doing this, which is great! Your                                                                                                                                                     | 1 |
| 0.3     | Question 3: Knit your document together in the following formats:                                                                                                                                                                             | 6 |
| 0.1     | Question 1: Explain the following                                                                                                                                                                                                             |   |
| a       | AML header: there is general information about date, authors and the type of output desire to obtain the fitter the knit.  Literate programming: is when a computer programme is giving as an explanation of how it works.                    | n |
|         | Question 2: Take the code you wrote for coding challenge 3, question 5 and incorporate it into your R markdown file. Some of you have already been doing this, which is great! Your final R markdown file should have the following elements. | y |
| 0.2.1   | At the top of the document, make a clickable link to the manuscript where these dat are published.                                                                                                                                            | a |
| link to | the manuscript                                                                                                                                                                                                                                |   |
| 0.2.2   | Read the data using a relative file path with na strings option set to "na". This mean                                                                                                                                                        | S |

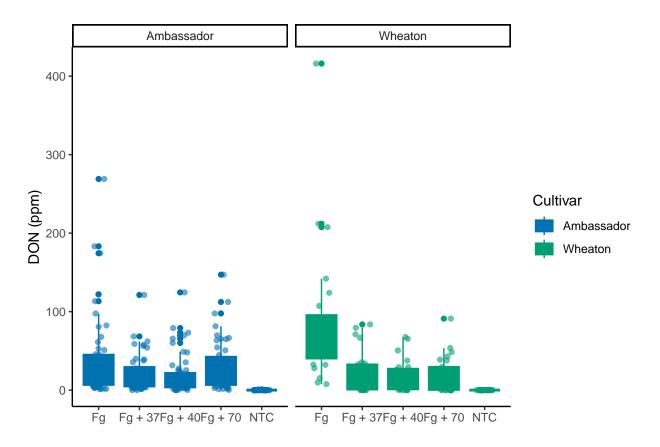
data <- read.csv("~/Library/CloudStorage/OneDrive-AuburnUniversity/Spring 2025/PLPA\_5820/Markdown\_notes

you need to put the Mycotoxin.csv file we have used for the past two weeks into your

0.2.3 Make a separate code chunk for the figures plotting the DON data, 15ADON, and Seedmass, and one for the three combined using ggarrange.

## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat\_boxplot()').

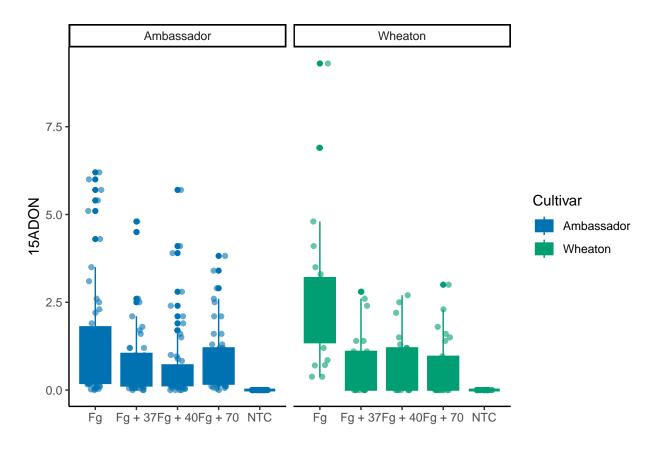
## Warning: Removed 8 rows containing missing values or values outside the scale range
## ('geom\_point()').



```
# Plot 15ADON data
question3_plot1 <- ggplot(data, aes(x = Treatment, y = X15ADON, color = Cultivar, fill = Cultivar)) +
geom_boxplot(position = position_dodge()) +
geom_point(position = position_jitterdodge(dodge.width = 0.9), alpha = 0.6, ) +
facet_wrap(~Cultivar, scales = "fixed") +
xlab("") +
ylab("15ADON") +
scale_fill_manual(values = c(cbbPalette[[6]], cbbPalette[[4]])) +
scale_color_manual(values = c(cbbPalette[[6]], cbbPalette[[4]])) +
theme_classic()
question3_plot1</pre>
```

## Warning: Removed 10 rows containing non-finite outside the scale range
## ('stat\_boxplot()').

## Warning: Removed 10 rows containing missing values or values outside the scale range
## ('geom\_point()').

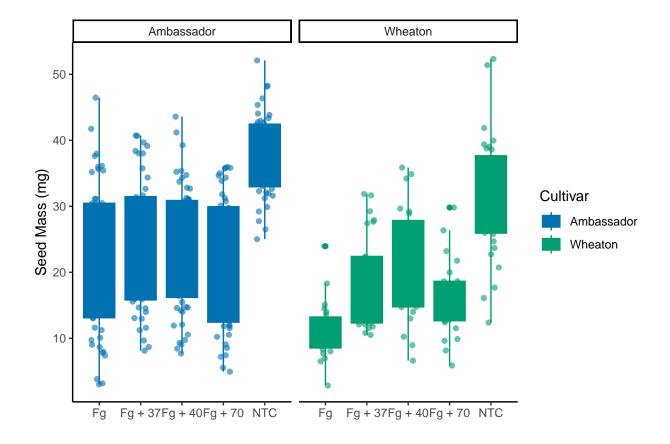


```
# Plot Seedmass data
question3_plot2 <- ggplot(data, aes(x = Treatment, y = MassperSeed_mg, color = Cultivar, fill = Cultivar
geom_boxplot(position = position_dodge()) +
geom_point(position = position_jitterdodge(dodge.width = 0.9), alpha = 0.6, ) +
facet_wrap(~Cultivar, scales = "fixed") +</pre>
```

```
xlab("") +
ylab("Seed Mass (mg)") +
scale_fill_manual(values = c(cbbPalette[[6]], cbbPalette[[4]])) +
scale_color_manual(values = c(cbbPalette[[6]], cbbPalette[[4]])) +
theme_classic()
question3_plot2
```

## Warning: Removed 2 rows containing non-finite outside the scale range
## ('stat\_boxplot()').

## Warning: Removed 2 rows containing missing values or values outside the scale range
## ('geom\_point()').



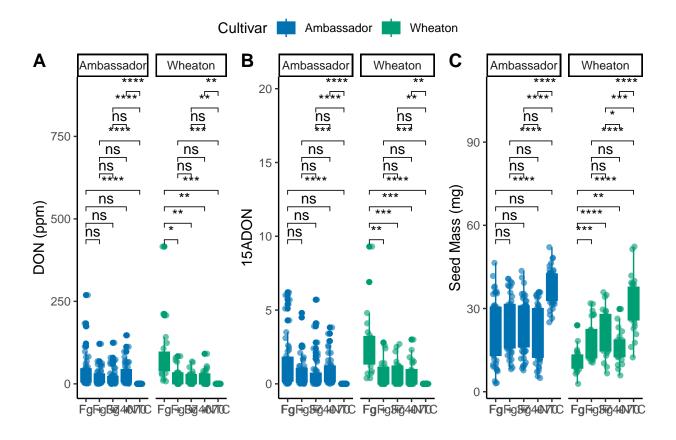
```
#Loading library
library(ggpubr)
question5_plot1 <- question1 +
   geom_pwc(aes(group = Treatment), method = "t_test", label = "p.adj.signif")

question5_plot2 <- question3_plot1 +
   geom_pwc(aes(group = Treatment), method = "t_test", label = "p.adj.signif")

question5_plot3 <- question3_plot2 +
   geom_pwc(aes(group = Treatment), method = "t_test", label = "p.adj.signif")</pre>
```

```
question5_plot4 <- ggarrange(question5_plot1,</pre>
                             question5_plot2,
                             question5_plot3,
                       labels = c("A", "B", "C"),
                       nrow = 1,
                       ncol = 3,
                       common.legend = T)
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat boxplot()').
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_pwc()').
## Warning: Removed 8 rows containing missing values or values outside the scale range
## ('geom_point()').
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_boxplot()').
## Warning: Removed 8 rows containing non-finite outside the scale range
## ('stat_pwc()').
## Warning: Removed 8 rows containing missing values or values outside the scale range
## ('geom_point()').
## Warning: Removed 10 rows containing non-finite outside the scale range
## ('stat_boxplot()').
## Warning: Removed 10 rows containing non-finite outside the scale range
## ('stat_pwc()').
## Warning: Removed 10 rows containing missing values or values outside the scale range
## ('geom_point()').
## Warning: Removed 2 rows containing non-finite outside the scale range
## ('stat_boxplot()').
## Warning: Removed 2 rows containing non-finite outside the scale range
## ('stat_pwc()').
## Warning: Removed 2 rows containing missing values or values outside the scale range
## ('geom_point()').
```

question5\_plot4



0.3 Question 3: Knit your document together in the following formats: