

codingpractice4

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2025-02-26

Contents

Question 1. Explain the following:	1
YAML header	1
Literate programming	2
Question 2. Take the code you wrote for coding challenge 3 question 5 and incorporate it into your R markdown file. Your final R markdown file should have the following elements.	2
DON plot	2
X15ADON plot	3
seed mass plot	3
combined plot	4
Question 3. Knit your document together in the following formats:	5
Question 4. Push the .docx or .pdf and .md files to GitHub inside a directory called Coding Challenge 4.	5
Question 5. Now edit, commit, and push the README file for your repository and include the following elements.	5
Question 6. Please provide a clickable link to your GitHub link to souce publication	6

Question 1. Explain the following:

YAML header

The YAML header begins every R Markdown document. It includes title, author, date, and also details on how the document will be knit (html, pdf, etc.)

Literate programming

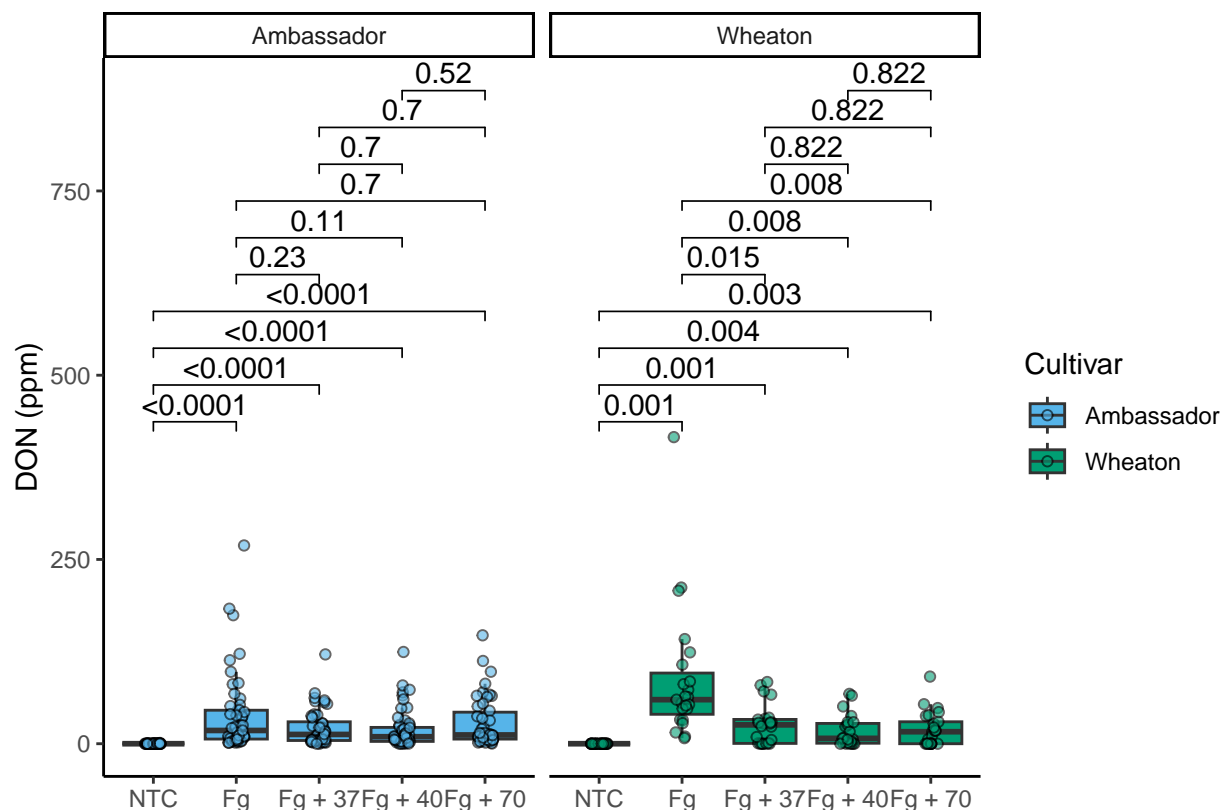
Literate programming is a type of programming documentation that includes explanatory chunks of natural language as well as code. R Markdown files are an example of literate programming.

Question 2. Take the code you wrote for coding challenge 3 question 5 and incorporate it into your R markdown file. Your final R markdown file should have the following elements.

- At the top of the document, make a clickable link to the manuscript where these data are published.
- Read the data using a relative file path with `na.strings` option set to “na”. This means you need to put the `Mycotoxin.csv` file we have used for the past two weeks into your directory, which git tracks.
- Make a separate code chunk for the figures plotting the DON data, 15ADON, and seedmass, and one for the three combined using `ggarrange()`.

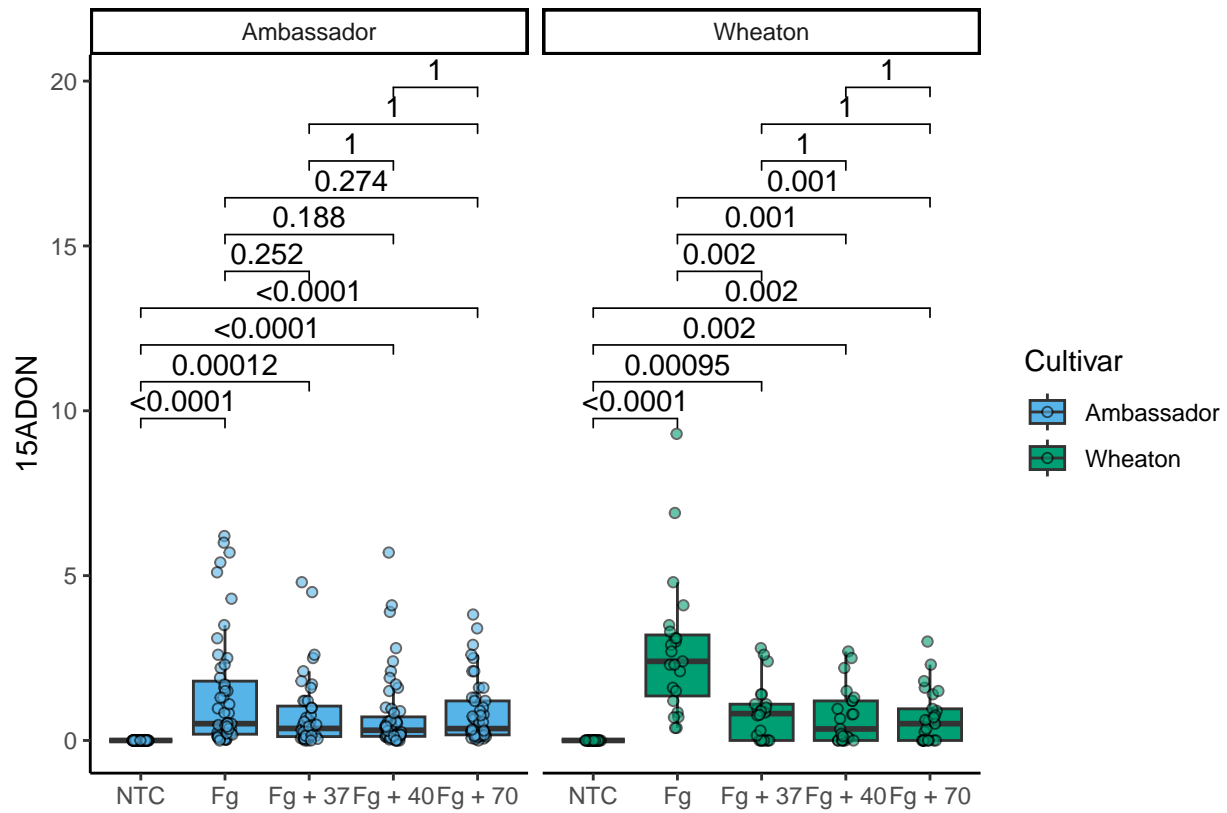
DON plot

```
DONplot.stats <- DONplot +  
  geom_pwc(aes(group = Treatment), method = "t.test", label = "p.adj.format")  
DONplot.stats
```



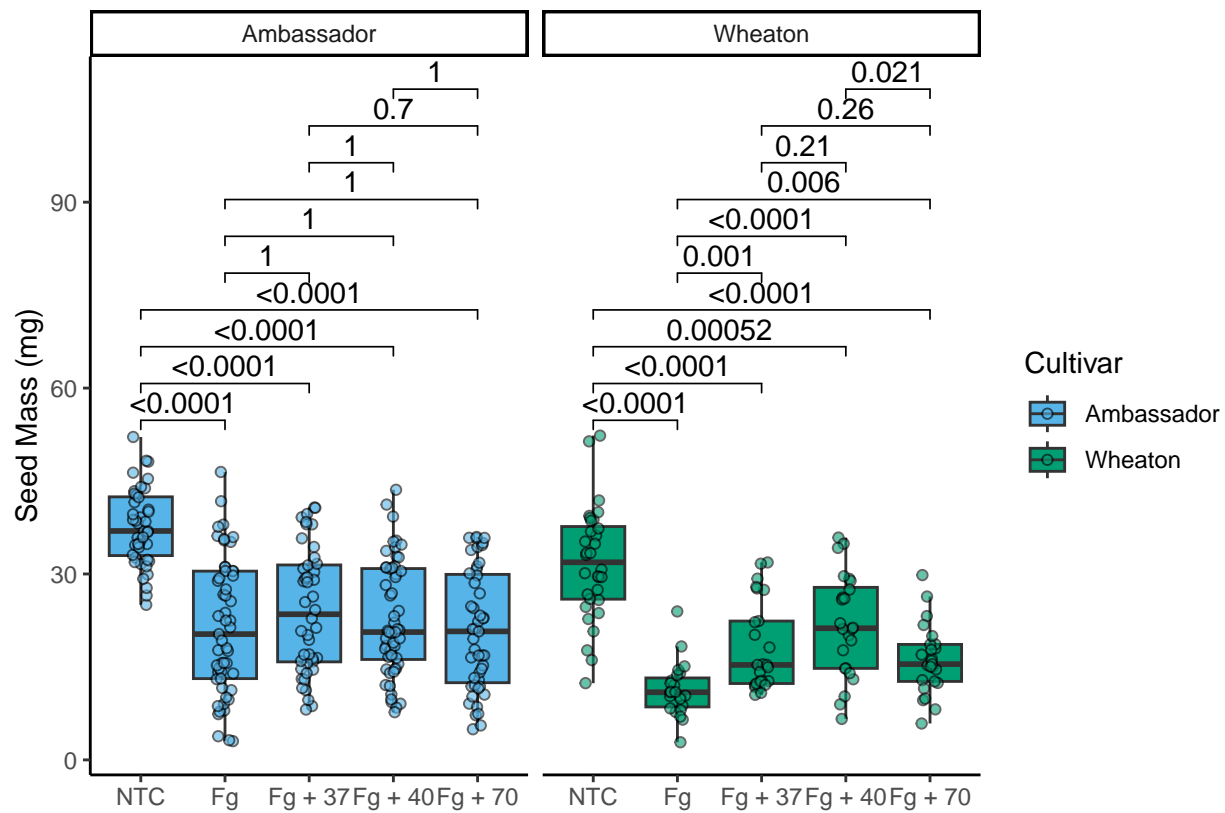
X15ADON plot

```
X15ADONplot.stats <- X15ADONplot +
  geom_pwc(aes(group=Treatment), method = "t.test", label = "p.adj.format")
X15ADONplot.stats
```



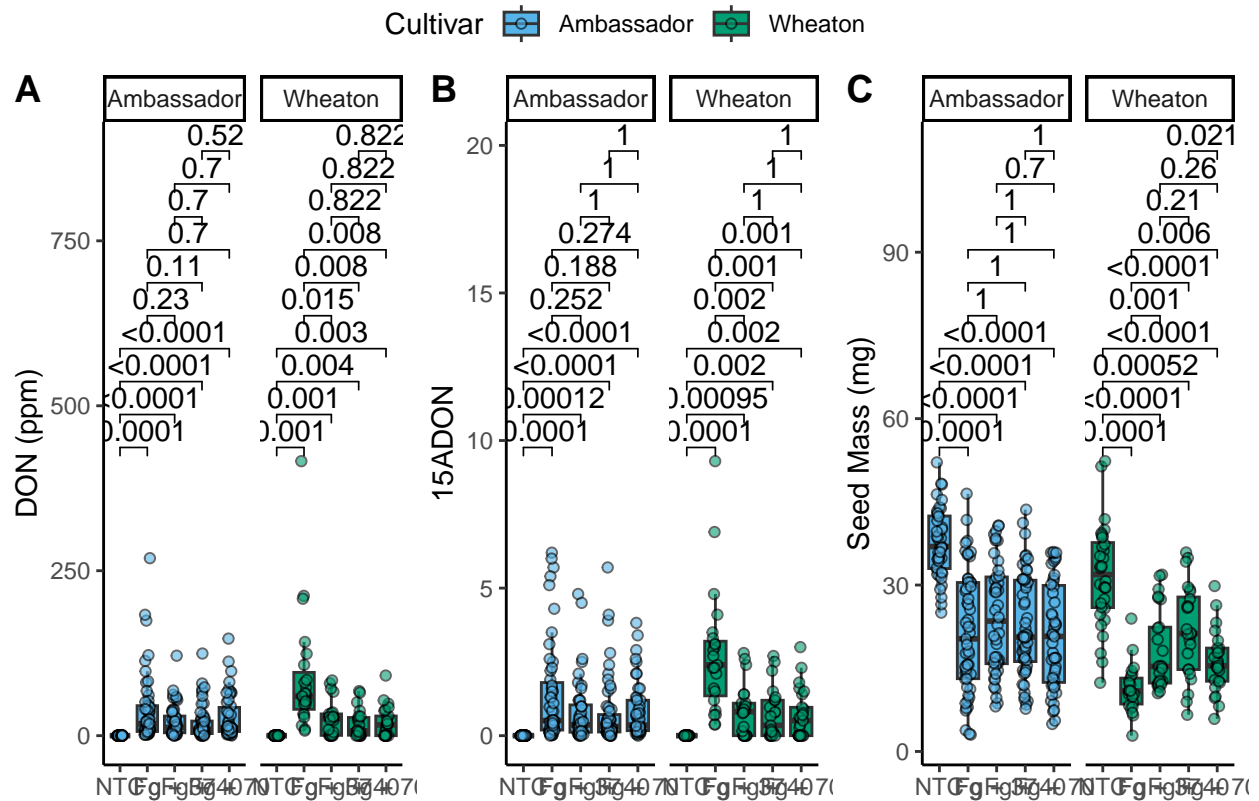
seed mass plot

```
seedmassplot.stats <- seedmassplot +
  geom_pwc(aes(group=Treatment), method = "t.test", label = "p.adj.format")
seedmassplot.stats
```



combined plot

```
combinedfigure.stats <- ggarrange(DONplot.stats, X15ADONplot.stats, seedmassplot.stats, labels = "AUTO")
combinedfigure.stats
```



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

- .docx (word document) OR a .pdf with a table of contents
- Github flavored markdown file

Question 4. Push the .docx or .pdf and .md files to GitHub inside a directory called Coding Challenge 4.

That's where we are right now!

Question 5. Now edit, commit, and push the README file for your repository and include the following elements.

- A clickable link in your README file to your GitHub flavored .md file
 - A file tree of your GitHub Repository
- See README link above

Question 6. Please provide a clickable link to your GitHub

Here it is!