

Lecture 3.1 – Best Practices in Computing

Specific Learning Objectives:

2.1.1 – Understand how file systems are structured and organized.

2.1.4 – Use standard organization to organize an R project.

2.2.1 – Create reproducible scripts in R.

2.2.2 – Include effective documentation in scripts and projects.

2.2.3 – Understand the Open Science movement and the role of data repositories in research.

Why care about Open Science?

- 1. What are good reasons to make science open, transparent, and reproducible?**
- 2. What are some tools that Stewart et al. suggest might be helpful to make science more open?**

What are 'good enough' practices?

1. What are the 'good-enough' practices suggested by Wilson et al. 2017?
2. What are the good-enough practices that would be reasonable to implement *during this course*?

In groups of 4 (equally split between two papers)

Summarize each paper for the group

Write down answers to the following questions:

- 1. What are some tools that Stewart et al. suggest might be helpful to make science more open?**
- 2. What are the good-enough practices that would be reasonable to implement *during this course*?**

Action Items

1. Watch Lecture 3.2 for next time.