

Intro & Install

DATA 3101

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Teaching and learning: the Carpentries

- Participatory live coding
- We will ask questions to track your progress and adjust our teaching
- At the end of each class, you can give us feedback on teaching:
 - What is one thing you'd like us to spend more time on or to review?
 - What is one thing you found useful or are excited about?
- We'll use sticky notes and/or GitHub to gather your feedback

Practice and Formal Instruction



From The Carpentries, Building Skill with Practice:

<https://carpentries.github.io/instructor-training/02-practice-learning/index.html>

Teaching and learning: ungrading

- Focus on learning and interaction
- Student self-assessment of submissions, followed by opportunity to improve work
- Tracking engagement, contributions, and progress towards goals
- Self-evaluation, peer-evaluation, or group evaluation

What do you want to learn?

- What topics, concepts, or skills do you want to get from this course?
- For all of the research data management sections, you'll be able to choose an openly available dataset that is of interest to you (think about discipline / research methods / personal interests)
- Optional Projects with presentation outputs

Teaching and Learning: Git & RStudio

- Importance of reproducibility and Open Science / Open Data
- Git and RStudio are a reproducible research environment
- RStudio: import, analyze, communicate data using a reproducible workflow
- RStudio can be linked with Git for version control
- Many of the good practices in research data management can be demonstrated using these tools (importance of file naming, file structures, documentation, version control)

Install Git and RStudio

- We're using Happy Git and GitHub for the useR by Jennifer Bryan to get set up for the course: <https://happygitwithr.com/index.html>
- She says the best case scenario is 1-2 hours
- I'll work through the steps on my computer – when you are caught up, put a sticky note on your computer. See if you can help someone else with a similar computer!
- Please book an appointment with Elizabeth Stregger to finish up install