

# Lab demonstration

# Topics to cover

Up to the professor, improvise demonstrations from the following categories

- **Git command line demo:**
  - Cloning DSAN-5000 Project repo
  - Make changes to local repo
  - Basic git commands: `Git add`, `Git commit`, `Git push`
  - Basics of using `git` Branches, switching branches
  - **If time permits:** resolving merge conflicts & Git in VSC (optional)
- **Quarto Demo:**
  - Creating blank Quarto template projects with VSC:
    - VSC → New file → “Quarto project” → “Website”, “blog”, “book”
  - Run through common Quarto command (e.g. `quarto render`, `quarto convert`, `quarto preview`)
  - Bib-tex, Zotero, Citations in Quarto
  - Optional: Take a tour through the Quarto website
- **`ssh`, `scp`, and `rsync` demo**
  - Show how to get the information needed to SSH from GU domains c-panel
  - Demonstrate how to `ssh` inside GU domains server
  - Demonstrate basic file transfer from local machine to GU server (`scp`, `rsync`)
  - Set up `rsync` scripts in project repo

