GIT - MERGING

MERGING

- Previously we assumed no merge conflicts
- Merge conflicts: when 2 commits compete
  - People editing the same line
  - File both edited and deleted

RESOLVING MERGE CONFLICTS

- Manually edit files to decide what to keep
- Markers indicate who did what:
    - Between <<<<<<< and =======: local - branch merging into
    - Between======= and >>>>>>>: remote - branch being merged

RESOLVING MERGE CONFLICTS (CONT.)

- Decide which to keep or combine them in some way
- Replace with whatever decided
- Remove markers
- Repeat for all conflicts in each conflicting file
- Add files after resolving merge
- Run `git commit`

RESOLVING MERGE CONFLICTS (CONT.)

- Q1. What if I just want to keep one version or the other, is there a better way?
- A1. Two options
    - `git restore --ours filename` **or** `git restore --theirs filename`
    - **or replace** `restore` **with** `checkout`

        `ours` = branch merging into

        `theirs` = branch being merged in

RESOLVING MERGE CONFLICTS (CONT.)

- Q2. I screwed up the merge process, can I start over?
- A2. `git merge --abort` (may delete any changes in working directory)