

CSE 403

Software Engineering

Spring 2023

#9: Git in-class Practice

Logistics

WEEK 3

04/10 L: SCRUM

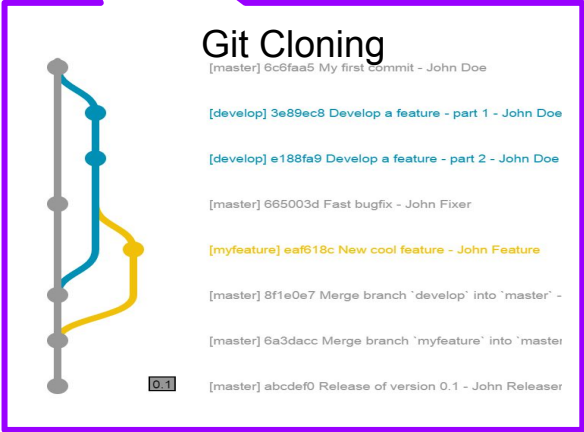
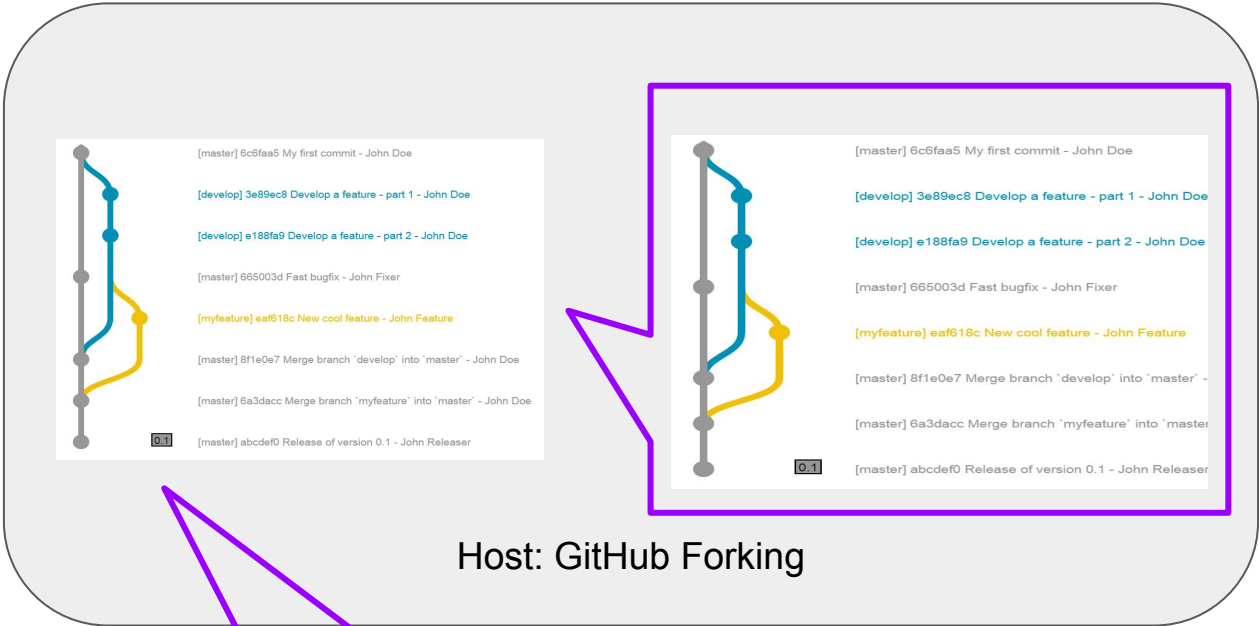
04/11 T: DUE: [PR!!!](#)

04/12 L: Version Control [GitHub Project Setup \(GPS\)](#)

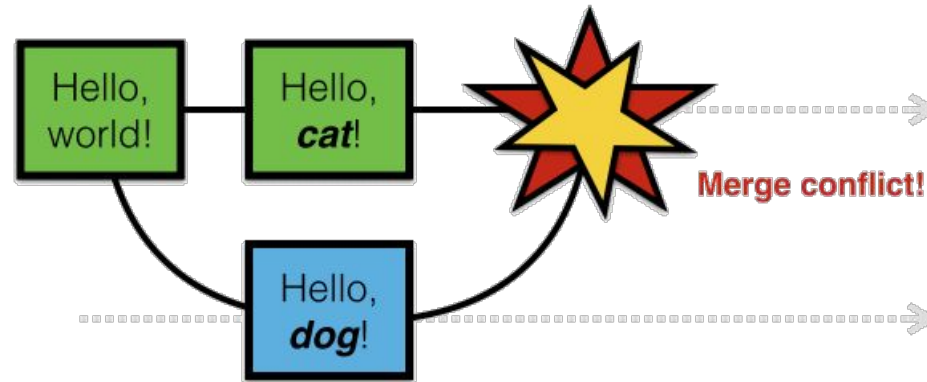
04/13 P:

04/14 LX: GIT

Review: Branching vs Cloning vs Forking



Review: Conflicts

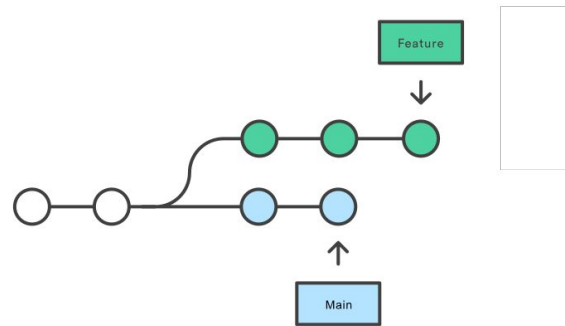


How to avoid merge conflicts?

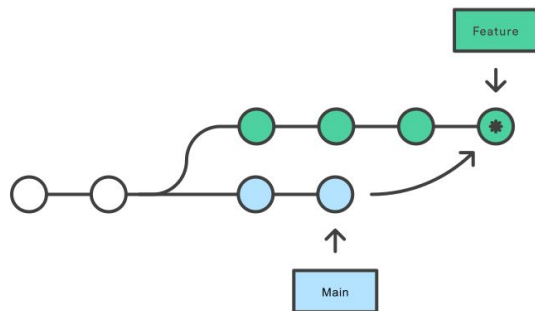
- Not doing any work 🤔
- Clear separation of responsibilities ☐
- Frequent code synchronization (pull and push) 😎
- Good code componentization 🍷
- Atomic commits 🎉

Review: Merge vs. Rebase

Developing a feature in a dedicated branch

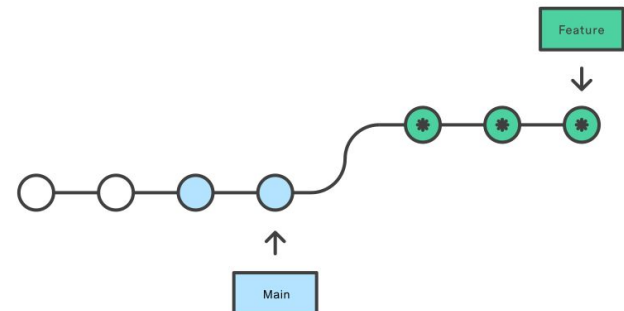


Merging main into the feature branch



* Merge Commit

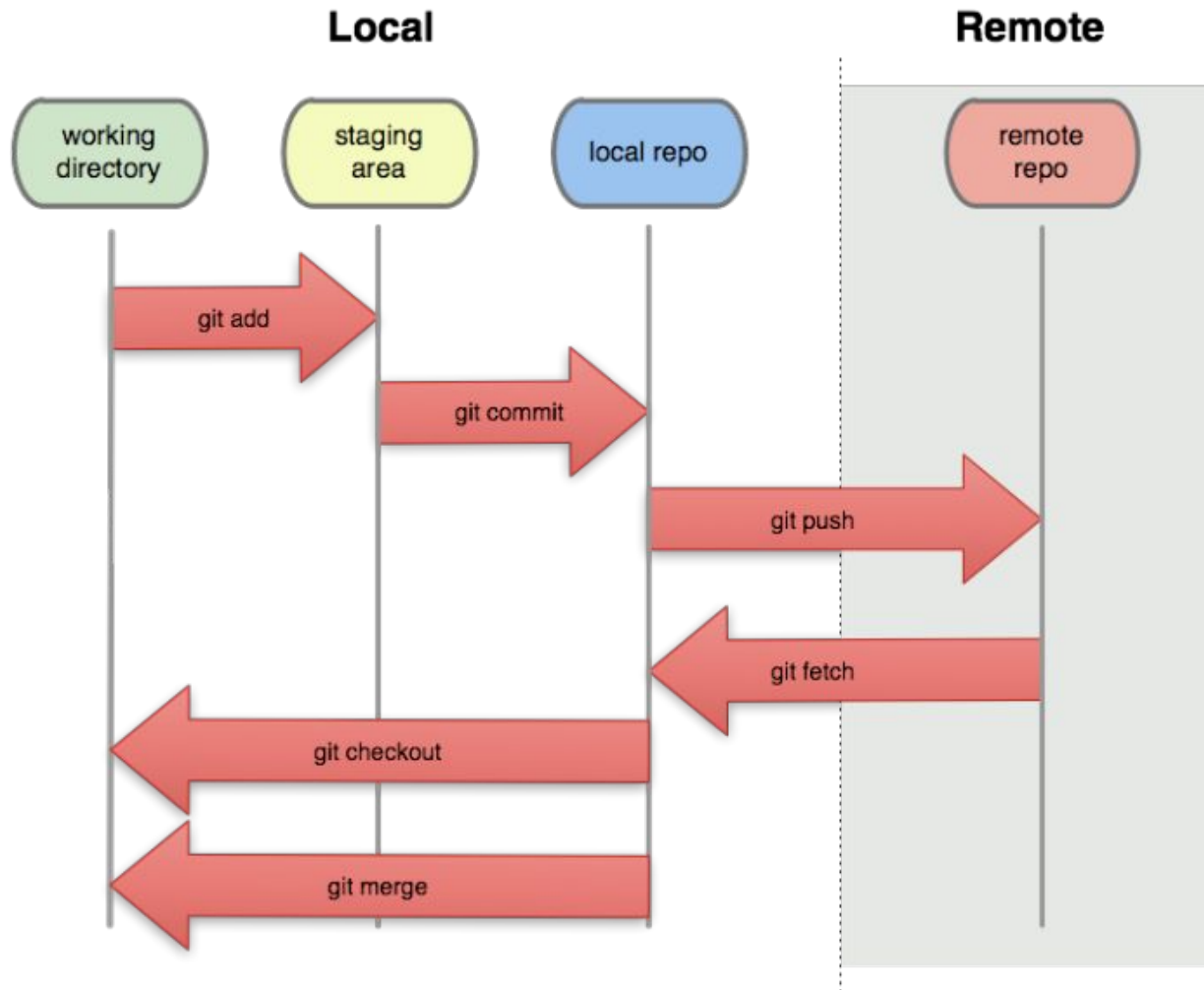
Rebasing the feature branch onto main



* Brand New Commit

<https://www.atlassian.com/git/tutorials/merging-vs-rebasing>

Git Activity #1: Let's Play



Git Activity #1: Add your team to the [Course Page](#)

1. One member, the team lead:
 - a. forks the course GitHub website
 - b. adds other team members as contributors
 - c. edits the **team.md** (inside *offers/CSE403-SP23*) page to:
 - i. copy the project — model text — to your project slot
 - ii. change the project description line and the link to your GitHub repository
 - iii. commit
2. Members of the team
 - a. clone that repository
 - b. add their name and website to a line
 - i. If no website, remove the link!
 - c. integrate (merge and push) their code back into the repository
3. The team now can submit a pull request with the team info

Git Activity #2: The graded one!

1. Go to the Canvas [LX9 Assignment](#)
2. Follow instructions
3. Ask questions
4. Submit by the end of the day

What's next?

WEEK 3

04/10 L: SCRUM

04/11 T:

DUE: [PR!!!](#)

04/12 L: Version Control

[GitHub Project Setup \(GPS\)](#)

04/13 P:

04/14 LX: GIT

WEEK 4

04/17 L: Data modeling

04/18 T:

DUE: [GPS!!!](#)

04/19 L: Architecture

[Design & Architecture \(DnA\)](#)

04/20 P:

04/21 L: Design

Question, please!