

AAE1001 - Introduction to Artificial Intelligence and Data Analytics in Aerospace and Aviation Engineering

Week 8 – Introduction to GitHub Operations

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Mutual editing on a document with collaborators remotely?

acceptance	26/3/2021 11:58 AM	File folder	
🛃 final submission	2/8/2021 11:38 AM	File folder	
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References.docx	14/7/2020 9:16 AM	Microsoft Word D	18 KB

Download files from various channels, such as mail, whatsapp, etc?

Can we edit the documents online? Google, Microsoft has the solutions!

Can we edit the "code" online? **Github**

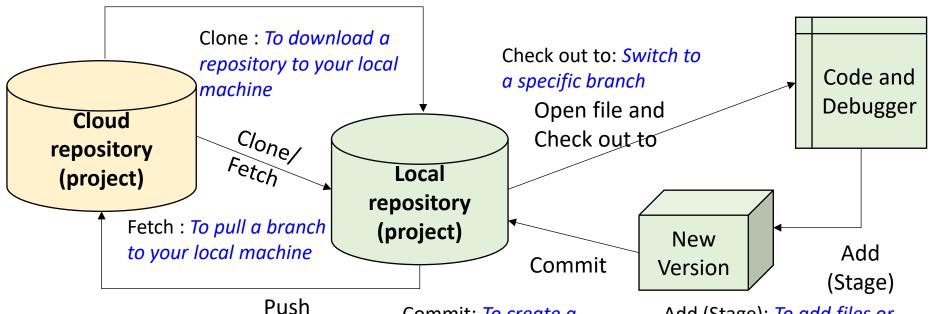




Archive your coding online (in the cloud)

Pull: To update local branch with remote, update all remote tracking branches

Video: VSC-Git Basic Operations



Push: To upload the commit made on a local branch to GitHub

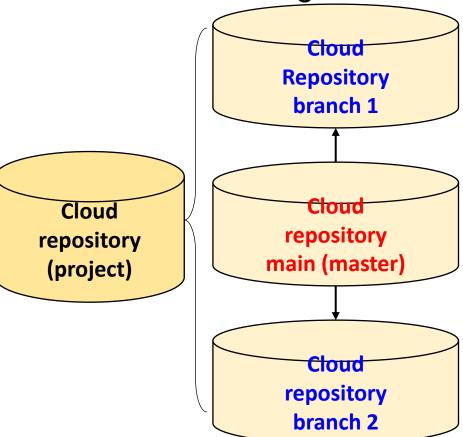
Commit: To create a snapshot of the repository

Add (Stage): To add files or segments in the next commit





Collaborative coding online – Generate Branch (Member)

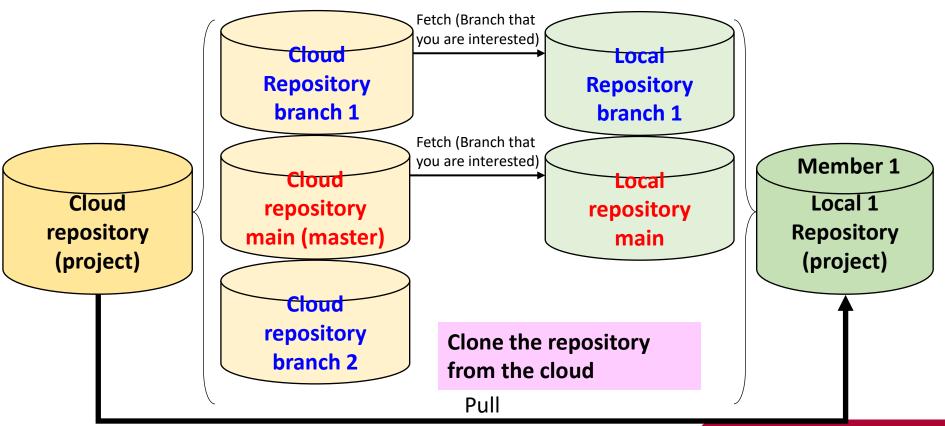


To generate a branch for different member that participant the project, creating a contained area of your repository to develop features, fix bugs and more.





Collaborative coding online – Fetch/Pull Branch from Cloud







Collaborative coding online – Edit the code in the local computer

Member 1 Local repository (project)

Loca Repository branch 1

Local repository main

Open file and Checkout to

Checkout to: Switch to a specific branch

Code and Debugger

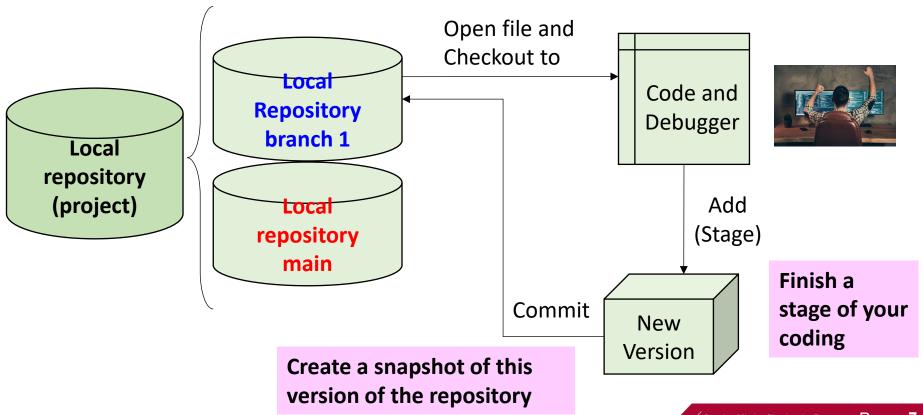


Translating your math/physics knowledge into coding



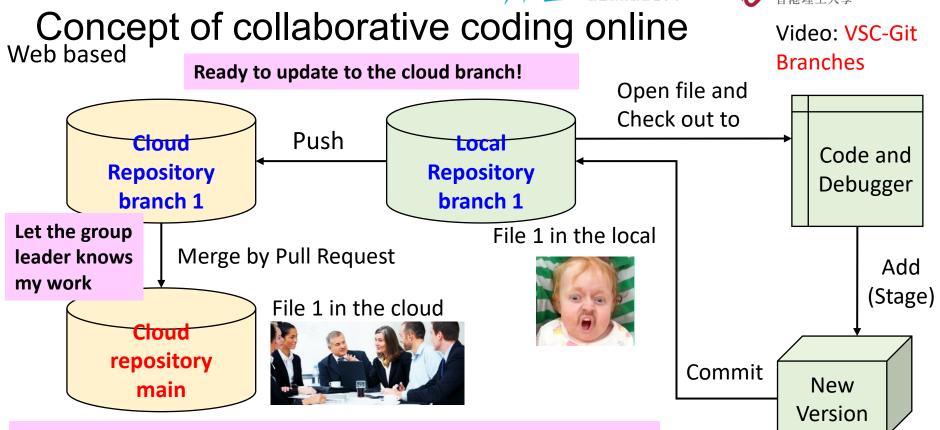


Collaborative coding online – Edit the code in the local computer

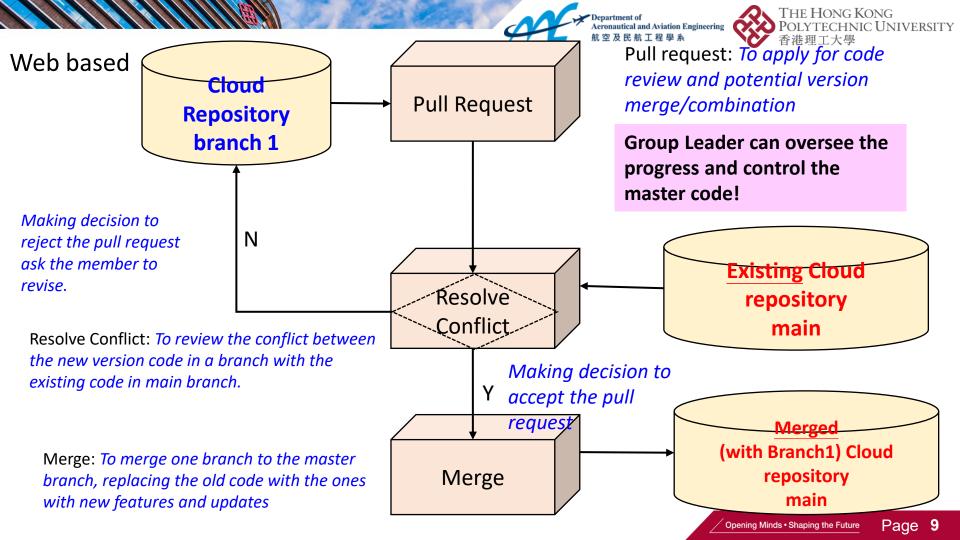






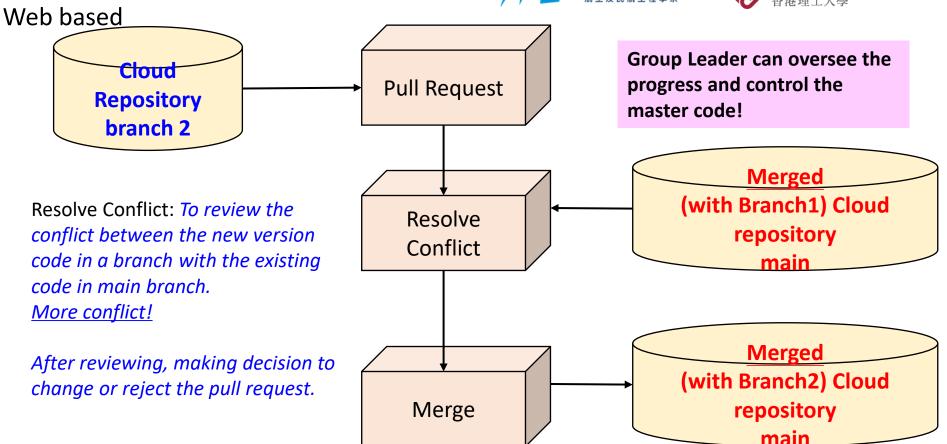


If the project leader does not know what you upload to the source code, you will create a lot of confusions!













GitHub Tutorial Videos (Web Version)

- Signing Up: https://www.youtube.com/watch?v=djwgi6YpZWY&ab channel=POLYUIPNL
- Group Leader Operations: https://www.youtube.com/watch?v=xmy9UaXZqAI&ab_channel=POLYUIPNL
- Group Member Operations: https://www.youtube.com/watch?v=xVtcexks7EA&ab_channel=POLYUIPNL
- Creating New Repository + Setup: https://www.youtube.com/watch?v=fD6x3wborEI&ab_channel=POLYUIPNL
- Commit & Merge: https://www.youtube.com/watch?v=34bSuMcdHP4&ab_channel=POLYUIPNL
- Commit & Merge (rejected): https://www.youtube.com/watch?v=6zPyvGKE804&ab_channel=POLYUIPNL
- Searching and Downloading: https://www.youtube.com/watch?v=5rtr63yCO0c&ab_channel=POLYUIPNL





GitHub Tutorial Videos (With VS Code)

- VSC Setup with GitHub: https://www.youtube.com/watch?v=GXbxHbjJQDc&ab channel=POLYUIPNL
- VSC Setup with GitHub (Mac): youtube.com/watch?v=iUyr8iG1G8k&ab_channel=POLYUIPNL
- VSC Git Basic Operation: youtube.com/watch?v=juEEJkgq6fl&ab_channel=POLYUIPNL
- VSC Git Branches: https://www.youtube.com/watch?v=5qUDIFg5gAM&ab_channel=POLYUIPNL
- > VSC Git Conflicts: https://www.youtube.com/watch?v=4JrCfXhmavg&ab_channel=POLYUIPNL
- VSC Commits & Pushes with web merges: https://www.youtube.com/watch?v=34bSuMcdHP4&ab_channel=POLYUIPNL
- VSC Pushing (No web): https://www.youtube.com/watch?v=dSWB5QCUdpE&ab_channel=POLYUIPNL