

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

Week 7 – Introduction to GitHub Operations

Dr. Guohao Zhang, Assisted by

Mr Zekun ZHANG, Mr Mingda YE, Ms Jingxiaotao FANG, Mr Chin Lok TSANG, Mr Di HAI, Mr Zhengdao LI



Mutual editing on a document with collaborators remotely?

acceptance	26/3/2021 11:58 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**

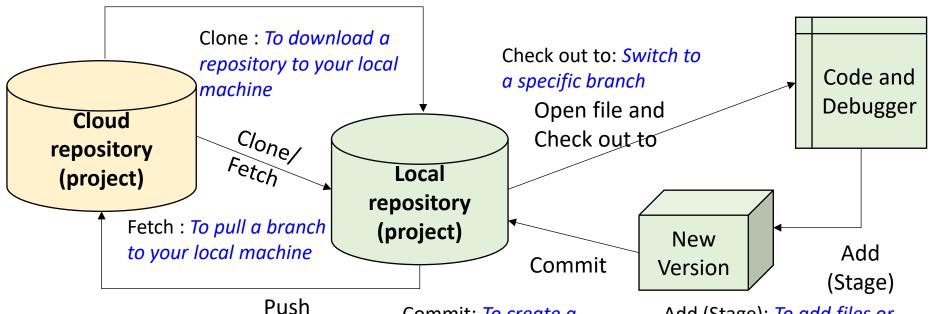




Archive your coding online (in the cloud)

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

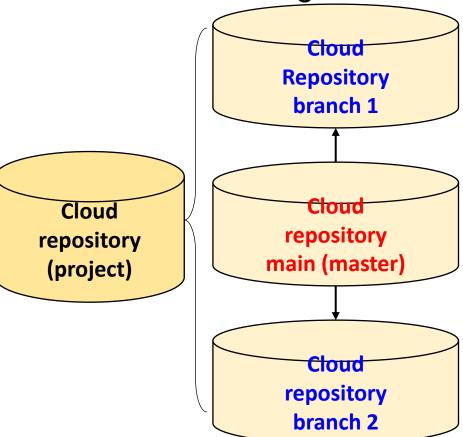
Commit: To create a snapshot of the repository

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





Collaborative coding online – Generate Branch (Member)

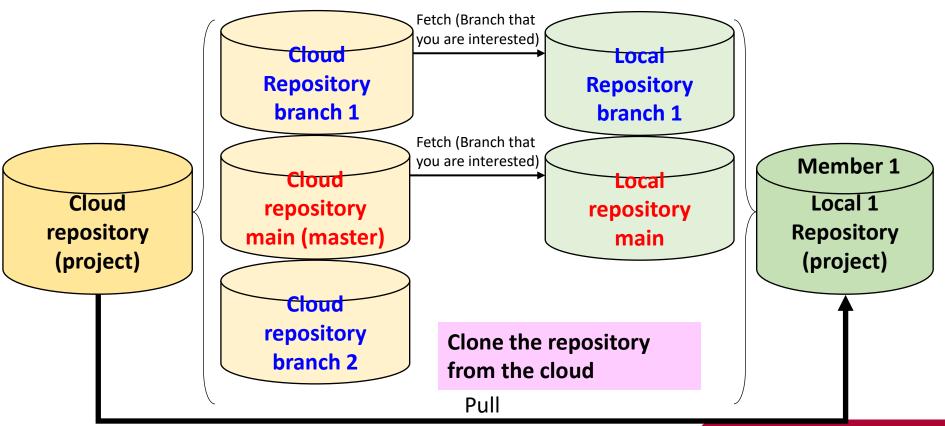


To generate a branch for different member that participant the project, creating a contained area of your repository to develop features, fix bugs and more.





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

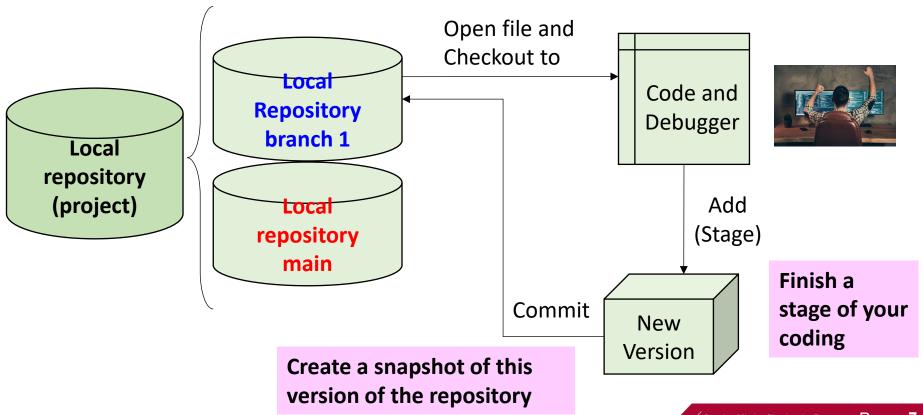


Translating your math/physics knowledge into coding



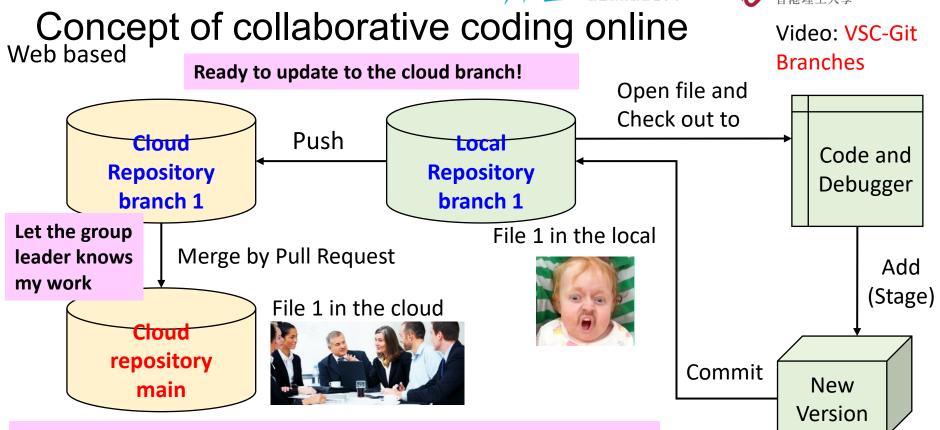


Collaborative coding online – Edit the code in the local computer

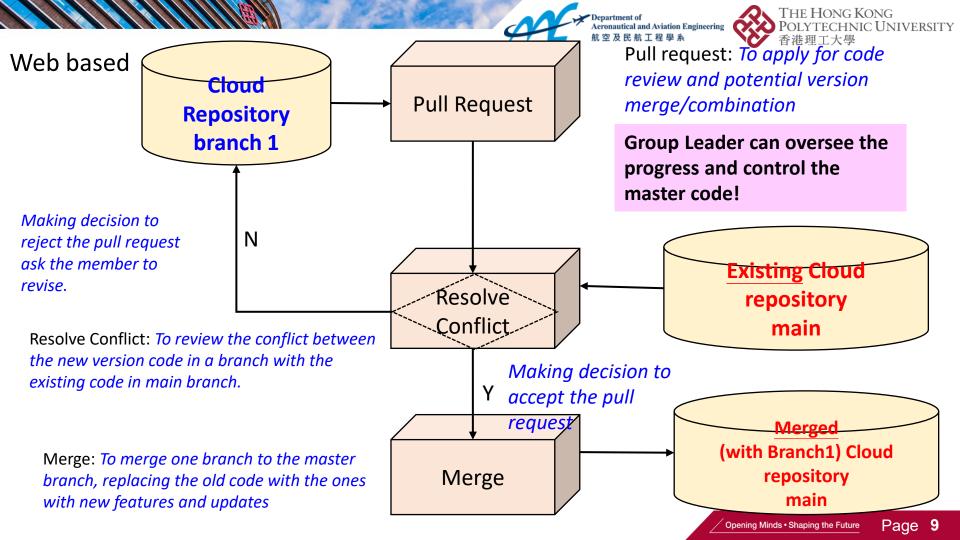






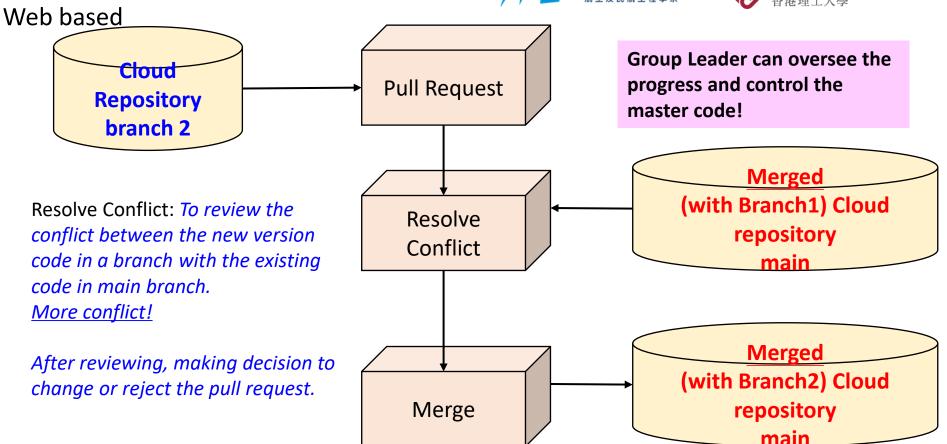


If the project leader does not know what you upload to the source code, you will create a lot of confusions!













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