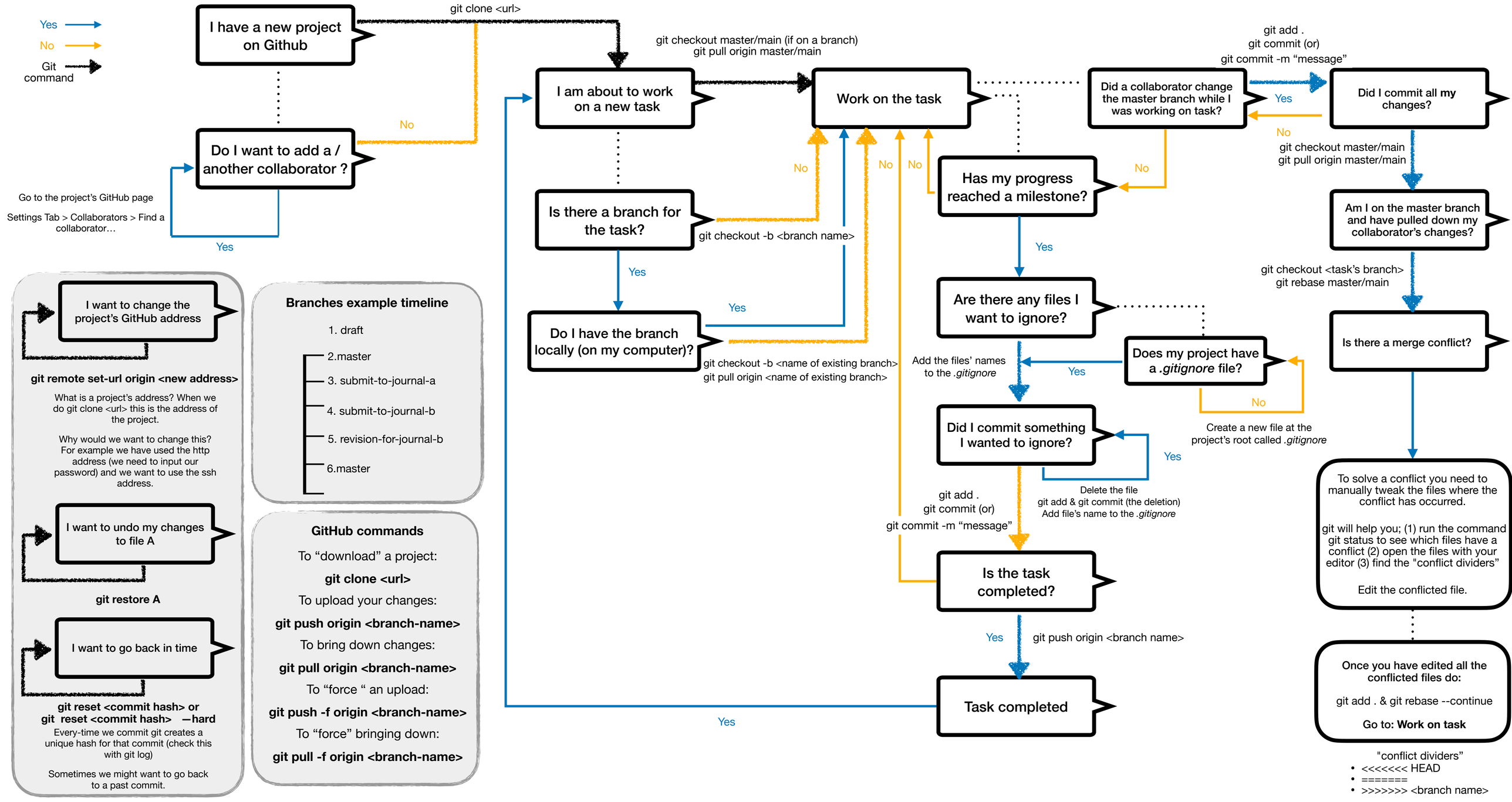
Yes
No
Git command
I have a new project on Github
git clone <url>
Do I want to add a / another collaborator ?
No
Yes
Go to the project's GitHub page
Settings Tab > Collaborators > Find a collaborator…
I am about to work on a new task
git checkout master/main (if on a branch)
git pull origin master/main
Work on the task
Is there a branch for the task?
No
git checkout -b <branch name>
Yes
Do I have the branch locally (on my computer)?
Yes
No
git checkout -b <name of existing branch>
git pull origin <name of existing branch>
Has my progress reached a milestone?
No
Yes
Are there any files I want to ignore?
Does my project have a .gitignore file?
Yes
Add the files' names to the .gitignore
No
Create a new file at the project's root called .gitignore
Did I commit something I wanted to ignore?
Yes
Delete the file
git add & git commit (the deletion)
Add file's name to the .gitignore
git add .
git commit (or)
git commit -m "message"
Is the task completed?
No
Yes
git push origin <branch name>
Task completed
Yes
Did a collaborator change the master branch while I was working on task?
Yes
No
git add .
git commit (or)
git commit -m "message"
Did I commit all my changes?
No
git checkout master/main
git pull origin master/main
Am I on the master branch and have pulled down my collaborator's changes?
git checkout <task's branch>
git rebase master/main
Is there a merge conflict?
To solve a conflict you need to manually tweak the files where the conflict has occurred.
git will help you; (1) run the command git status to see which files have a conflict (2) open the files with your editor (3) find the "conflict dividers"
Edit the conflicted file.
Once you have edited all the conflicted files do:
git add . & git rebase --continue
Go to: Work on task
"conflict dividers"
<<<<<<< HEAD
=======
>>>>>>> <branch name>
I want to change the project's GitHub address
git remote set-url origin <new address>
What is a project's address? When we do git clone <url> this is the address of the project.
Why would we want to change this? For example we have used the http address (we need to input our password) and we want to use the ssh address.
I want to undo my changes to file A
git restore A
I want to go back in time
git reset <commit hash> or
git reset <commit hash> —hard
Every-time we commit git creates a unique hash for that commit (check this with git log)
Sometimes we might want to go back to a past commit.
Branches example timeline
1. draft
2.master
3. submit-to-journal-a
4. submit-to-journal-b
5. revision-for-journal-b
6.master
GitHub commands
To "download" a project:
git clone <url>
To upload your changes:
git push origin <branch-name>
To bring down changes:
git pull origin <branch-name>
To "force " an upload:
git push -f origin <branch-name>
To "force" bringing down:
git pull -f origin <branch-name>