

Git & GitHub

Version control system

What is the process of writing a code is like??

- Create
- Edit
- Save
- Edit again
- Save again

Git

- Git is a open source version control system
- Maintains history of changes made to your files (when , why and what)
- Multiple developers can collaborate on the same project

Github

- GitHub is a **website (cloud based system)** that hosts your git files
- Also allows developers to collaborate on a project together
- Projects can be shared easily online
- It is open source

Git push commands

- `git init`
- `git add <file_name>` or `git add .`
- `git status`
- `git commit -m "first commit"`
- `git remote add origin <github path>` [this must be run only for the first commit]
- `git push -u origin master`

THE #1 PROGRAMMER EXCUSE
FOR LEGITIMATELY SLACKING OFF:

"GITHUB IS DOWN."



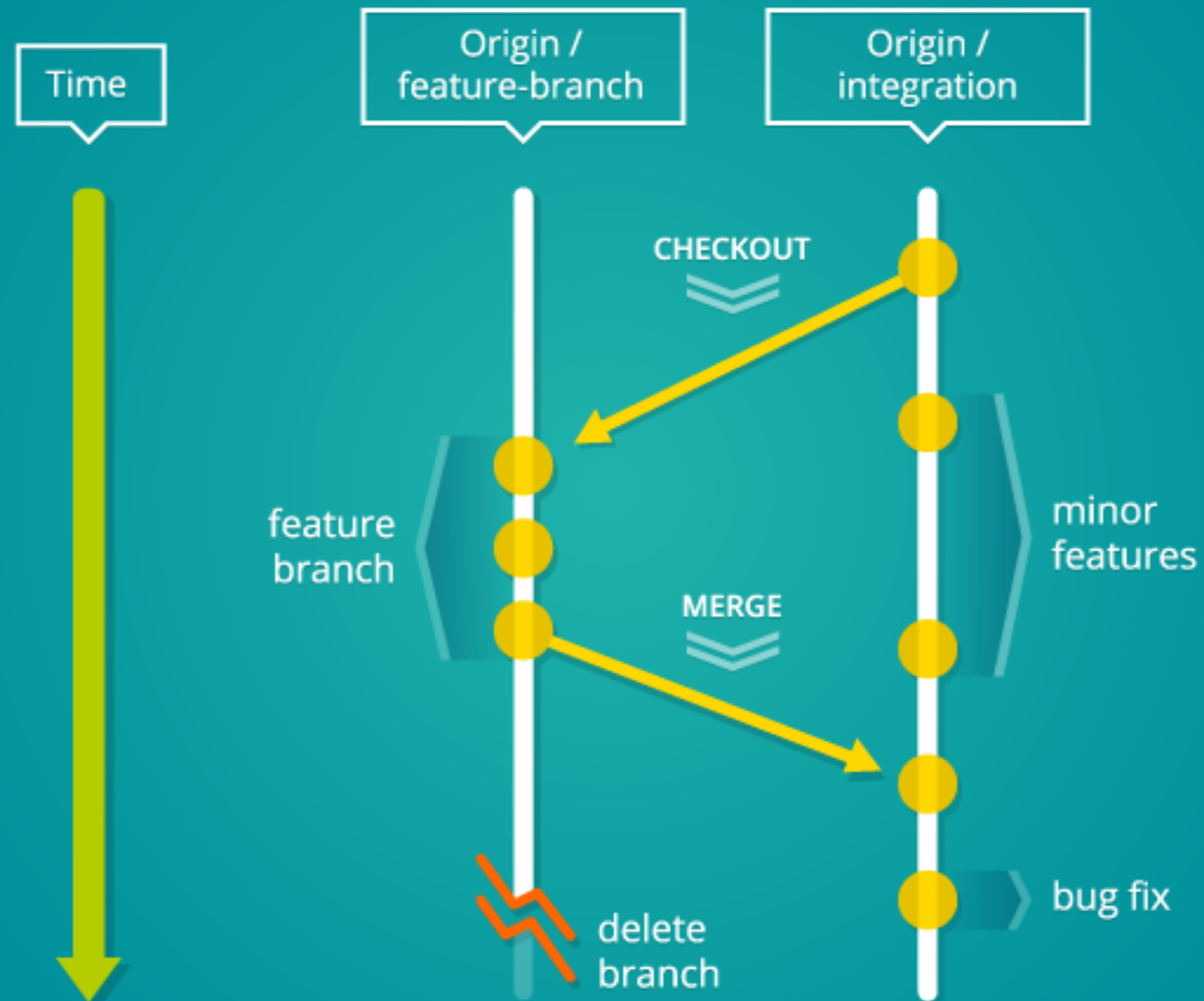
- Want to add a new feature to your code and worried if you would mess it up??
- What would you do??



Git - 2.0

BRANCH AND MERGE

INTEGRATION BRANCH



Git Branch in local repo

- `git branch branch-name`
- `git checkout branch-name`
- make changes to your file
- `git add .`
- `git branch -a` (list all the branches and display the active branch)
- `git commit -m "pushing to side branch"`
- `git checkout master`
- `git merge branch-name`
- `git -d branch-name`
- `git push -u origin master`

Git Branch in remote repo

- `git branch branch-name`
- `git checkout branch-name`
- make changes to your file
- `git add .`
- `git branch -a` (list all the branches and display the active branch)
- `git commit -m "pushing to side branch"`
- `git push origin branch-name`
- `git checkout master`
- `git merge branch-name`
- `git branch -d branch-name.` (delete the branch on local repo)
- `git push origin --delete branch-name.` (delete the branch on remote repo)
- `git push -u origin master`