

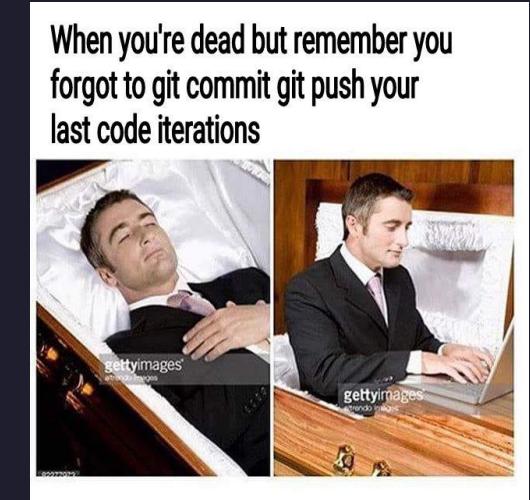


Hello, Git

by Ethan Burnet and Angus Wong

Agenda

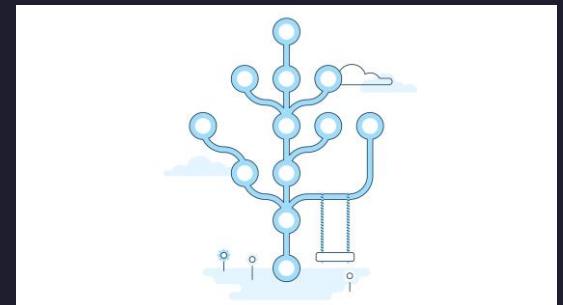
- Introduction to Git
- Git vs GitHub/GitLab/BitBucket
- How to collaborate on Git
- Interactive Workshop



What is Git?



- Version control software tools have existed since 1960s
- Git is one of the most popular version control systems in the world
- Developed by Linus Torvalds (yes, that guy) in 2005 as an open-source version control software to be used on Linux
- Saves snapshot of all files inside a repository (folder)
- Allows programmers to view history and checkout the files' contents from any saved commits (version)



Git lets you keep a **timeline** of your changes, called a **repository**

Each point is called a **commit**

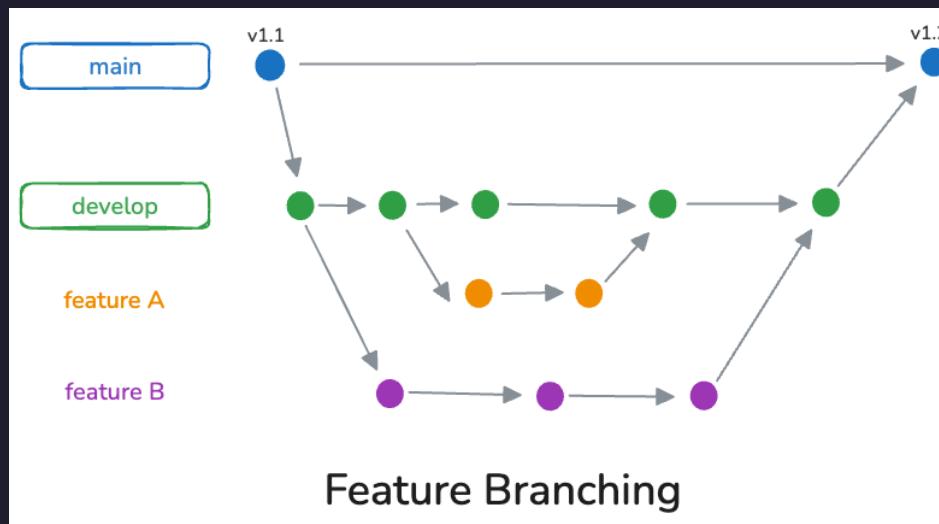
- 
- added lockdown mode
 - removed transparency
 - fix: ethical concerns
 - feat: legal permits
 - fixed geothermal power
 - added flux capacitor

You can have multiple timelines



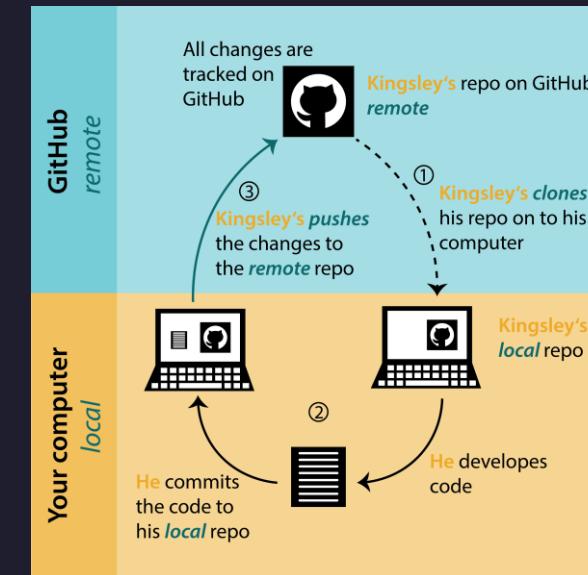
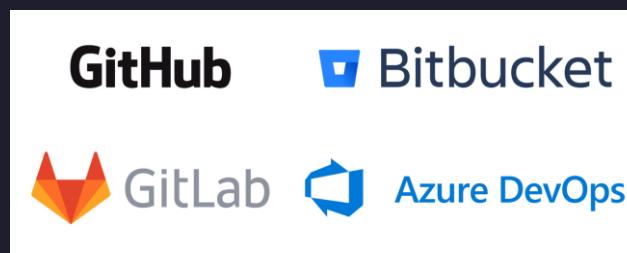
Branching

- Branching allows for multiple developers to work on the same repo without interfering with each other's work
- Branches can be merged which will combine their changes and histories

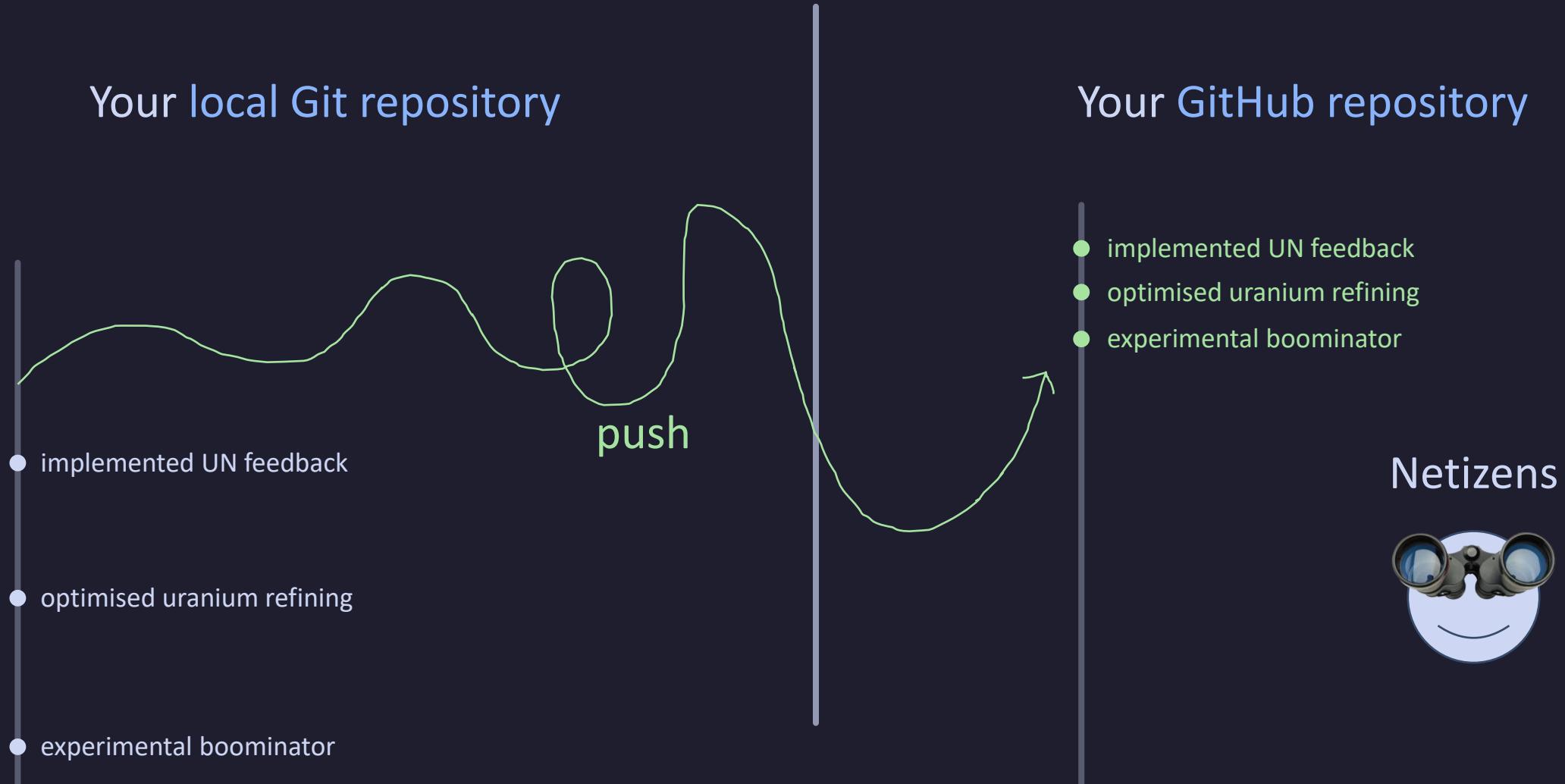


Git vs GitHub/GitLab/BitBucket

- Git is a version control software. You can install Git on your computer
- GitHub/GitLab/BitBucket are collaborative version control platforms that use Git for distributed version control
- Git = File Explorer, GitHub = OneDrive/SharePoint



GitHub lets you share Git repositories with other people



Contributing to GitHub repos

Someone's GitHub repo

- gave into consumerism
- destroyed 14 wells
- brought back diseases

- achieved enlightenment

- built 14 wells

- eradicated diseases

Your fork

- gave into consumerism

- destroyed 14 wells

- brought back diseases

- achieved enlightenment

- built 14 wells

- eradicated diseases

pull request

fork



Forking

- Forking is available on remote Git platforms
- Forking creates a copy of the original repo under your control
- Make changes and push to your fork, then create a Pull Request to the original repo

The screenshot shows a GitHub fork comparison interface. At the top, it displays the URL `wongy123 / git-workshop-turtle`. Below the URL, there are tabs for `Code`, `Pull requests`, `Actions`, `Projects`, `Wiki`, `Security`, `Insights`, and `Settings`. A search bar is located at the top right.

The main area is titled "Comparing changes" and includes instructions: "Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#)". It shows the base repository as `codenetwork/git-workshop-tur...` and the head repository as `wongy123/git-workshop-turtle`, both set to the `main` branch. A green checkmark indicates that the branches are "Able to merge".

Below this, there is a section for "Discuss and review the changes in this comparison with others. [Learn about pull requests](#)" with a "Create pull request" button. It also shows "1 commit", "1 file changed", and "1 contributor". A note indicates "Commits on Feb 28, 2026".

The bottom part of the screenshot shows a code diff for the file `hello.py`. The diff highlights a change from "Angus Wong" to "Corey McCormick". The commit message is "Change name from 'Angus Wong' to 'Corey McCormick'" and it was authored by "wongy123" on Feb 28, 2026, with commit hash `a8115c4`.

At the very bottom, there are "Split" and "Unified" buttons for the code view.

```
diff --git a/hello.py b/hello.py
--- a/hello.py
+++ b/hello.py
@@ -32,7 +32,7 @@ goto(123,123)
color("dodgerblue")
- write("Angus Wong", align="center", font=("Comic Sans MS", 14))
+ write("Corey McCormick", align="center", font=("Comic Sans MS", 14))
goto(200, 45)
shape("turtle")
```

Workshop – make your first contribution

Visit <https://github.com/codenetwork/git-101-2026>

- Read the instructions and set up your Git
- Fork the repo, then clone your own forked repo
- Add your name to Program.cs, add to stage, commit, and push
- Create a pull request to the original repo
- Put your hand up and a facilitator will help merge it!

Open <https://codenetwork.github.io/git-101-2026/> to see the results, or scan the QR code

