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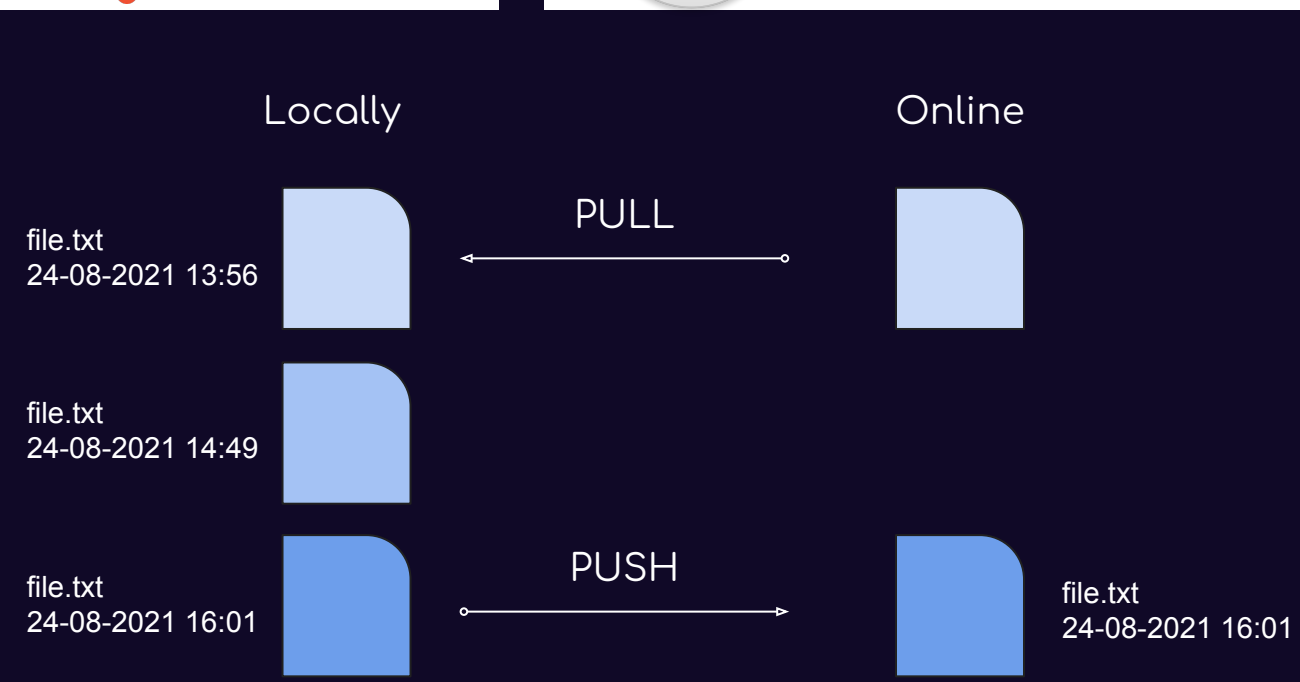
Introduction to GitHub

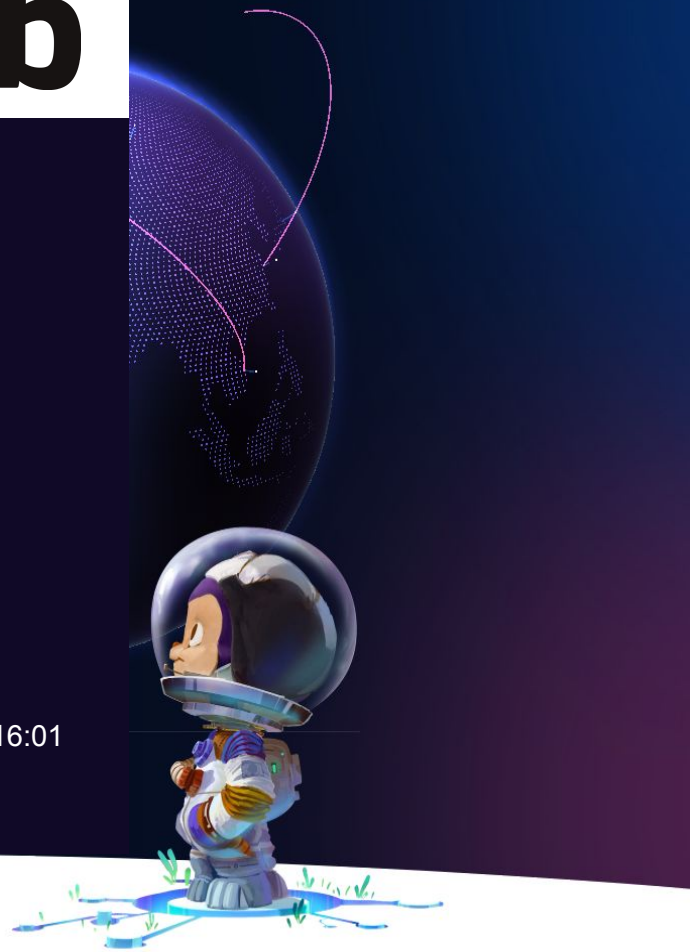
Where the world builds software

Millions of developers and companies build, ship, and maintain their software on GitHub—the largest and most advanced development platform in the world.

56+ million	3+ million	100+ million	72%
Developers	Organizations	Repositories	Fortune 50

git GitHub


Locally
Online
file.txt
24-08-2021 13:56
PULL
file.txt
24-08-2021 14:49
file.txt
24-08-2021 16:01
PUSH
file.txt
24-08-2021 16:01



	On your own	With others
Storage *infinite & safe*	●	●
Version Control	●	●
Code Sharing		●
Collaboration		●

... and more! *Packaging, Continuous Integration, Code Quality, Project management, Community, Raising Issues...*

1. **Pull** from remote repository *(GitHub)*
2. **Stage** local changes
3. **Commit** local changes with informative message
4. **Merge** branches *-> conflict?*
5. **Push** local changes to remote repository *(GitHub)*

```
git pull

git add .
git commit -m

git merge
git push
```

WHERE AM I AT?

```
git branch
git status
git log --oneline
git diff
```

GO ELSEWHERE

```
git checkout
[branch, commit]
```

Let's do it!

Log onto
https://github.com

features **develop** releases hotfixes **main**

Tag **0.1**

features **develop** releases hotfixes **main**

Tag **0.1**

```
git branch develop
git  checkout -b develop
```

features **develop** releases hotfixes **main**

Tag **0.1**

features **develop** releases hotfixes **main**

Tag **0.1**

git checkout -b cool-feature develop

features **develop** releases hotfixes **main**

Tag **0.1**

features **develop** releases hotfixes **main**

Tag **0.1**

```
git  checkout -b hotfix-0.2 main
```

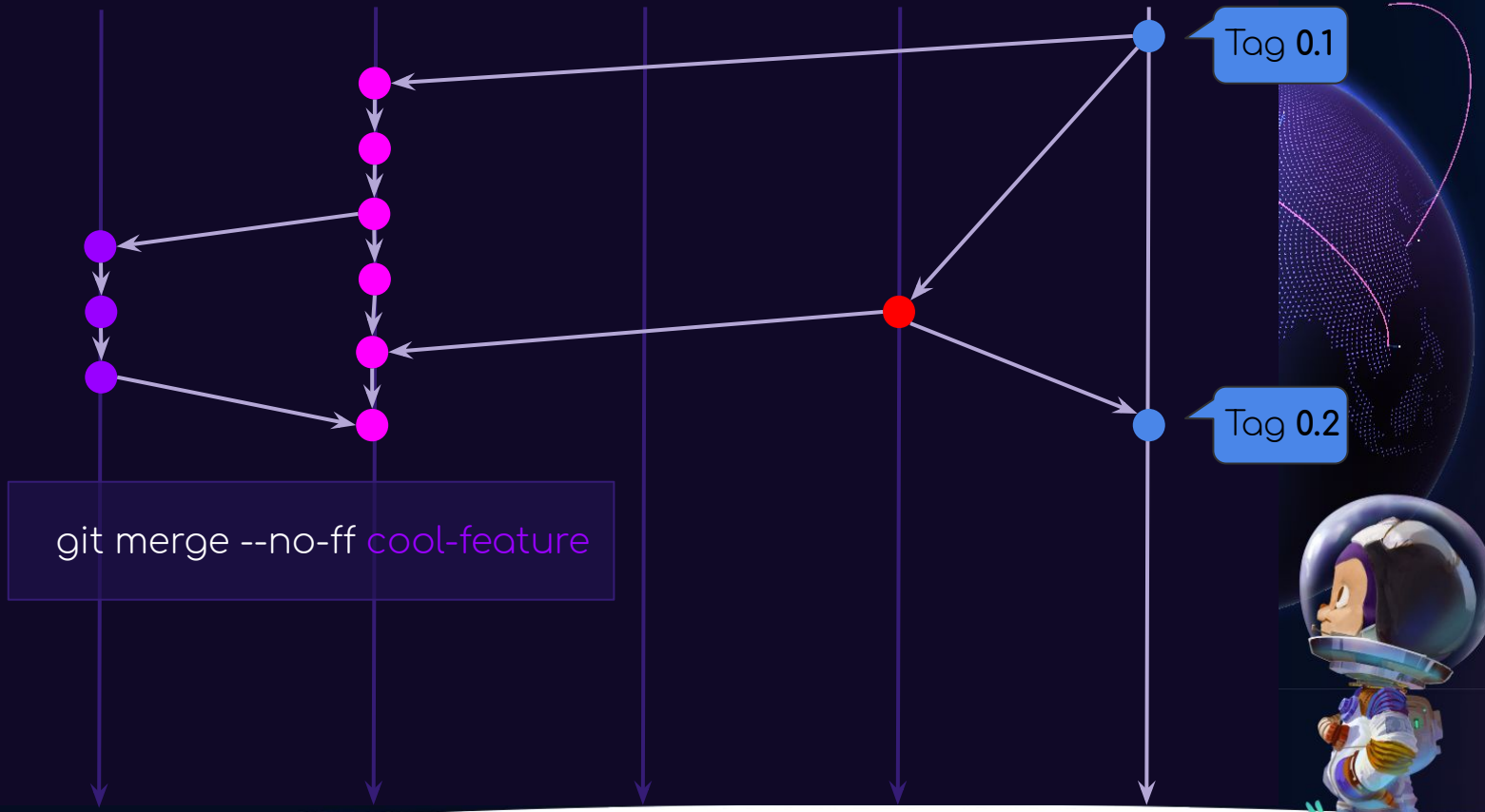
features **develop** releases hotfixes **main**

Tag **0.1**

Tag **0.2**

git merge --no-ff hotfix-0.2

features **develop** releases hotfixes **main**



git merge --no-ff cool-feature

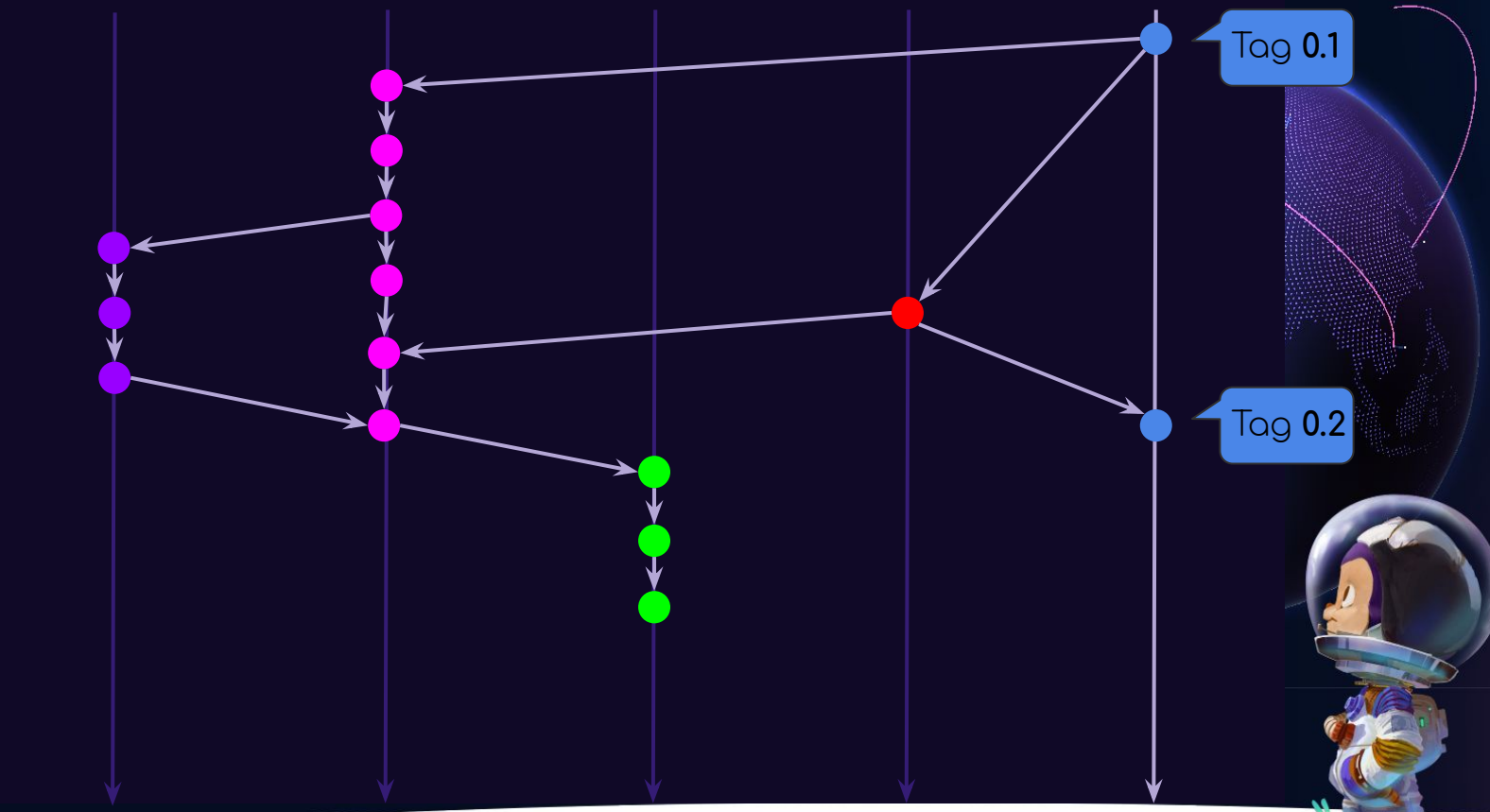
features **develop** releases hotfixes **main**

Tag **0.1**

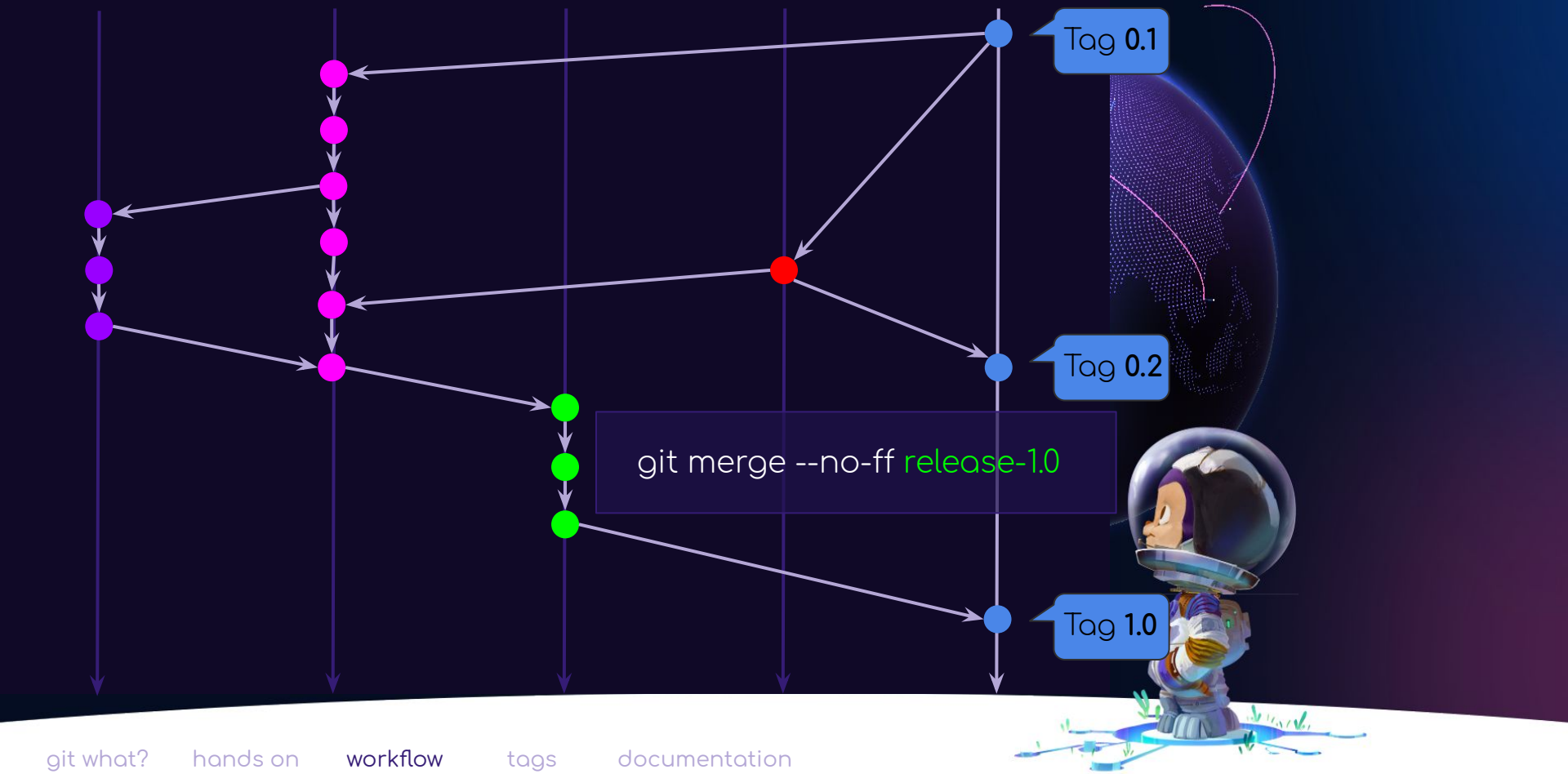
Tag **0.2**

git checkout -b release-1.0 develop

features **develop** releases hotfixes **main**



features **develop** releases hotfixes **main**



TAG HEAD

```
git tag -a v1.0 -m
      “new feature“
```

VIEW TAGS

```
git tag
```

PUSH TAGS

```
git push origin v1.0
git push origin --tags
```

How to make a README	https://www.makeareadme.com/
How to use Markdown	https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet
How to choose a LICENCE	https://choosealicense.com/
How to use tags	https://git-scm.com/book/en/v2/Git-Basics-Tagging
How to use command line	https://www.git-tower.com/blog/command-line-cheat-sheet/