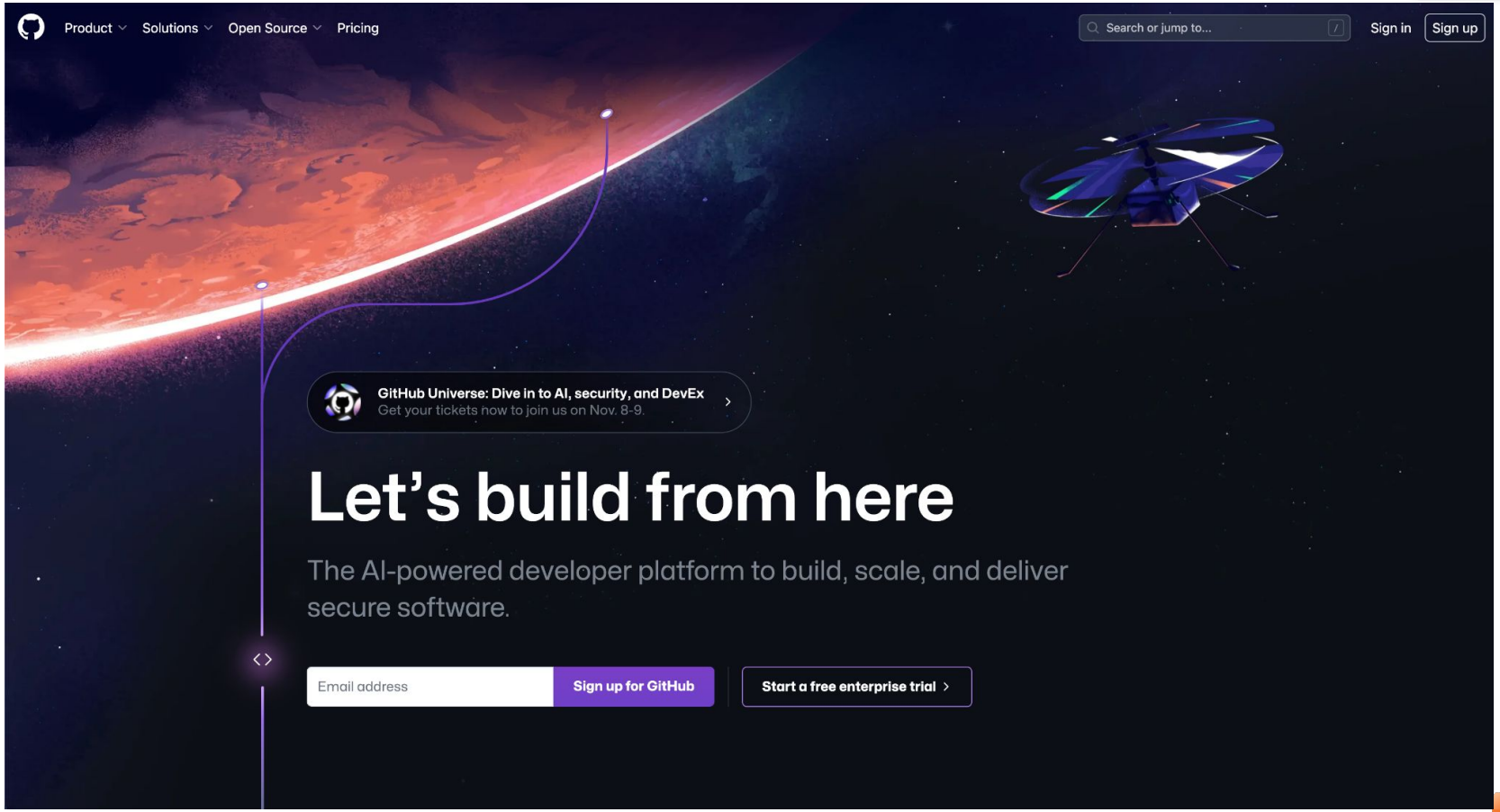
DevOps basics: Introduction to GitHub

What is ?

GitHub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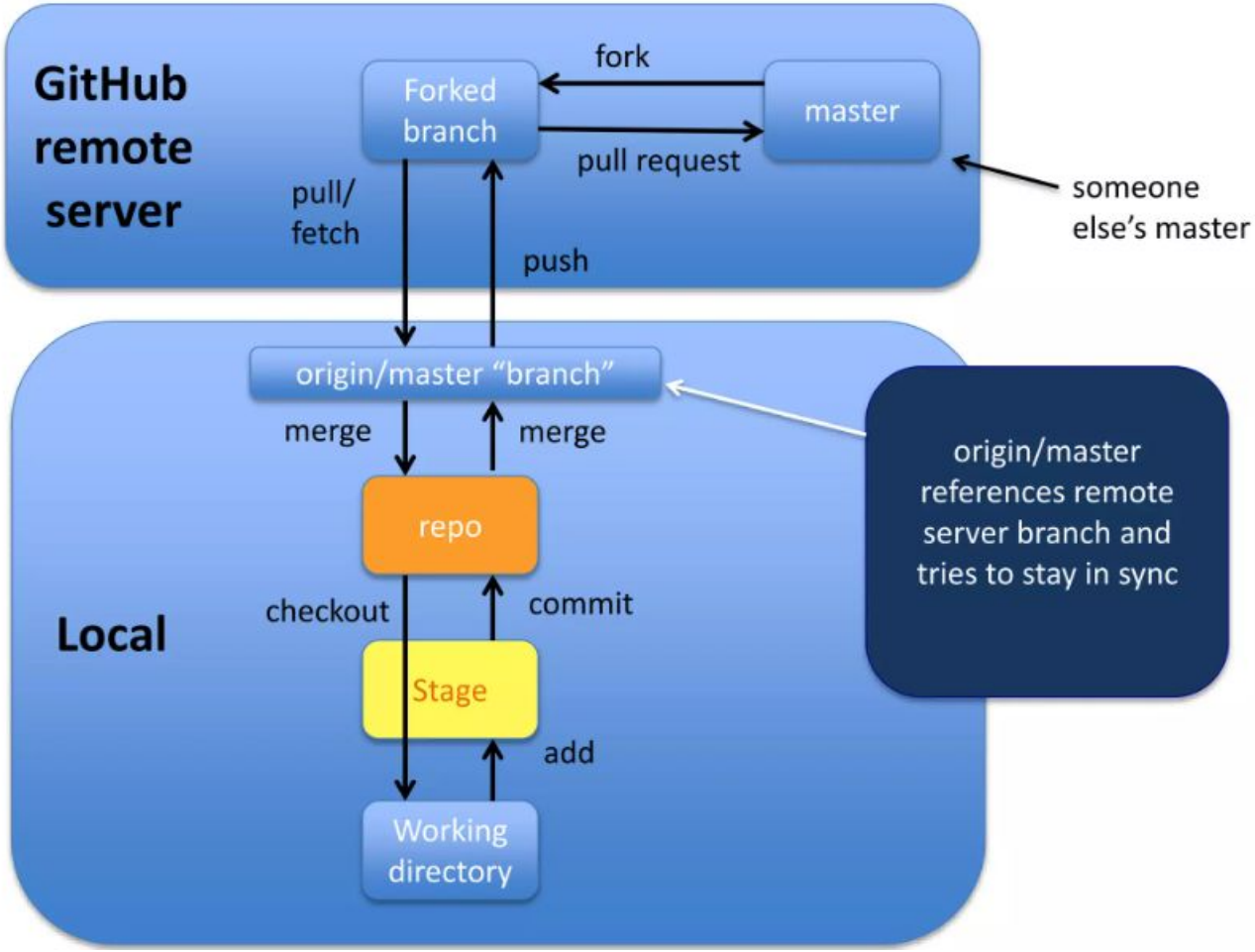
GitHub

- A platform to host git code repositories
- https://github.com/
- Launched in 2008
- Most popular Git host
- Allows users to collaborate on projects from anywhere
- GitHub makes git social!
- Free to start


GitHub remote server
Forked branch
fork
master
pull request
pull/ fetch
push
someone else's master
origin/master "branch"
merge
merge
repo
checkout
commit
Local
Stage
add
Working directory
origin/master references remote server branch and tries to stay in sync

Important to remember

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Sometimes developers choose to place repo on GitHub as a centralized place where everyone commits changes, but it **doesn't have to be on GitHub.**

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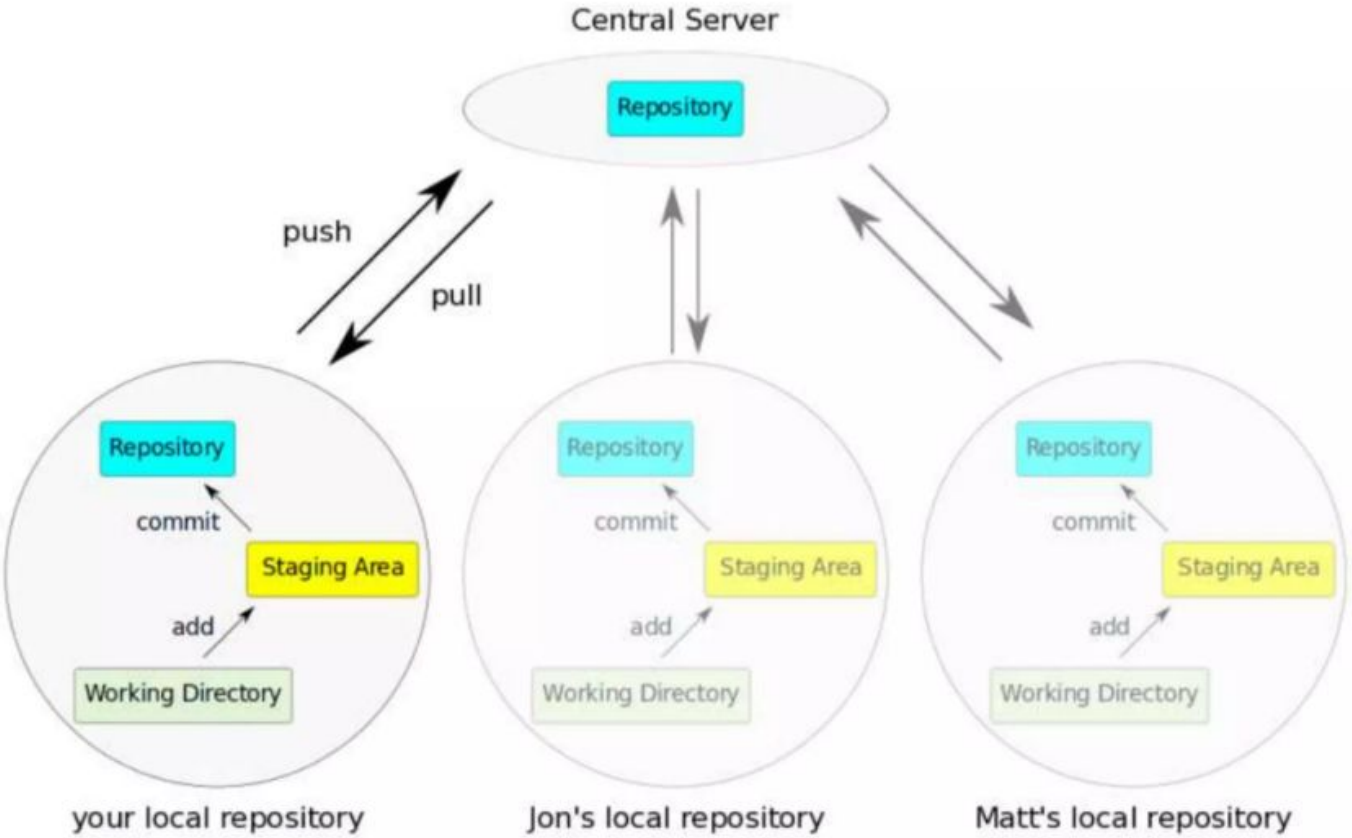

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Copying (cloning) files from remote repo to local machine

```
git clone URL
```

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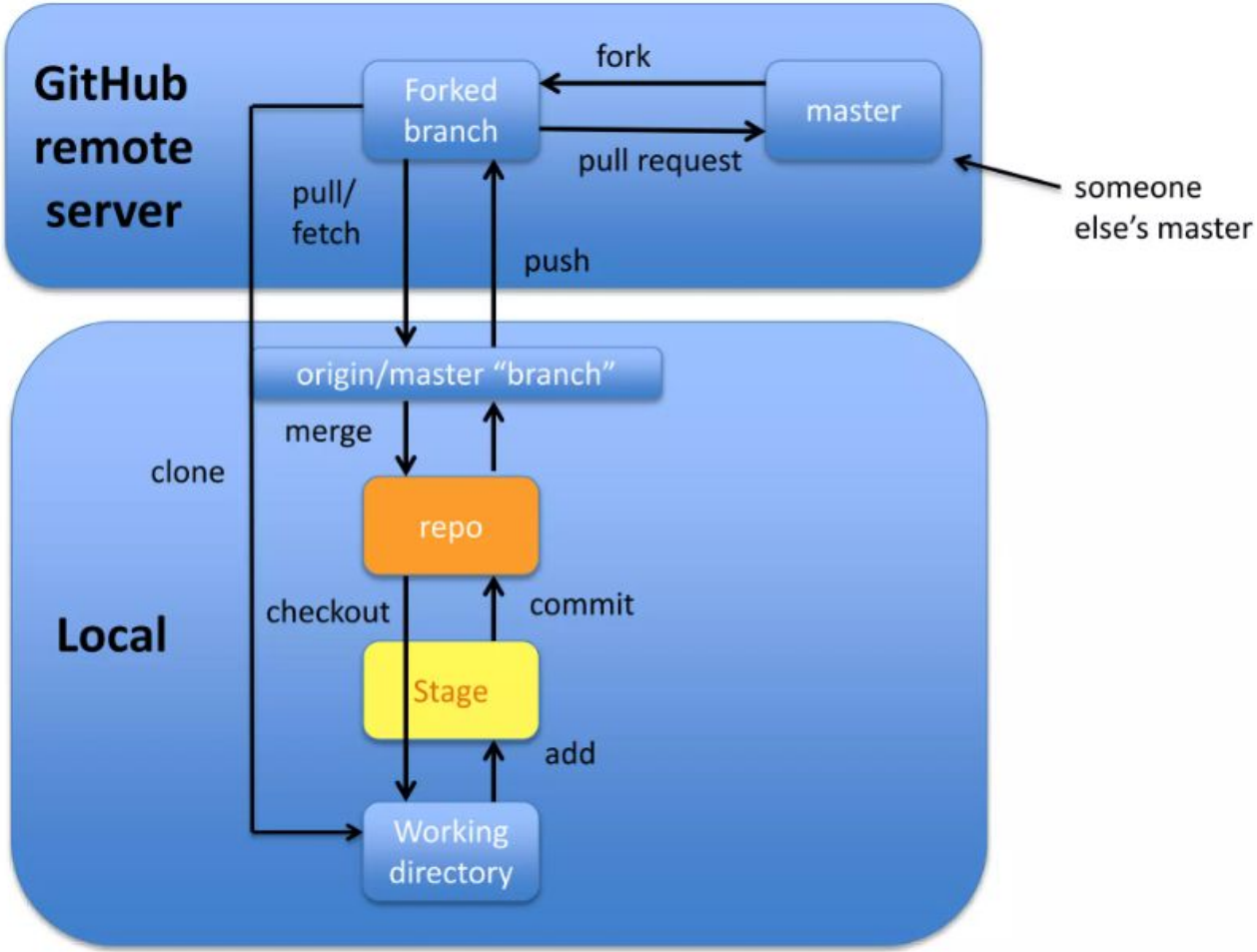
GitHub
remote
server
Forked
branch
fork
master
pull request
someone
else's master
pull/
fetch
push
origin/master "branch"
merge
clone
repo
checkout
commit
Local
Stage
add
Working
directory

How do I link my local repo to a remote repo?

```
git remote add <alias><URL>
```

Note: this just establishes a connection … no files are copied /moved

Note: Yes! You may have more than one remote linked to your local directory!

Which remotes am i linked to ?

```
git remote
```

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Pushing to a remote repo

```
git push local_branch_alias   branch_name
```

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Fetching from a remote repo

```
git fetch remote_repo_name
```

Fetch in no way changes a your working dir or any commits that you have made.

- Fetch before you work
- Fetch before you push
- Fetch often

Git merge must be done to merge fetched change into local branch

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Git commit

```
git commit -a
```

Allows one to add to staging index and commit at the same time

Grab everything in working directory

Files not tracked or being deleted are not included

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Renaming and deleting branches

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```
git branch -m/--move old_name new_name
```

```
git branch -d branch_name
```

Note:Must not be in branch_name

Note:Must not have commits in branch_name unmerged in branch from which you are deleting

```
git branch -D branch_name
```

Note: If you are really sure that you want to delete branch with commits

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Break 10 minutes

Questions?

Thank you for your attention!