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# Basics of git

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# What is git?

What is a VCS?

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# Benefits of VCS

1. Comparison with previous versions of work
2. Keeping a log of changes
3. Facilitate coordination with larger teams.
4. See who made what changes and when. Find who to ask questions to about certain logic (tracking ownership of constituent parts)
5. Allows rolling back (broken) deploys to previous (working) versions, or recovery of lost code.
6. Never be afraid of losing work.
7. Allows working on several different features (branches) at the same time.

# Git

vs.

# GitHub



Git is installed and maintained on your local system (rather than in the cloud)



First developed in 2005



One thing that really sets Git apart is its branching model

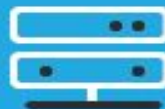
Git is a high quality version control system

GitHub is designed as a Git repository hosting service



You can share your code with others, giving them the power to make revisions or edits

GitHub is a cloud-based hosting service

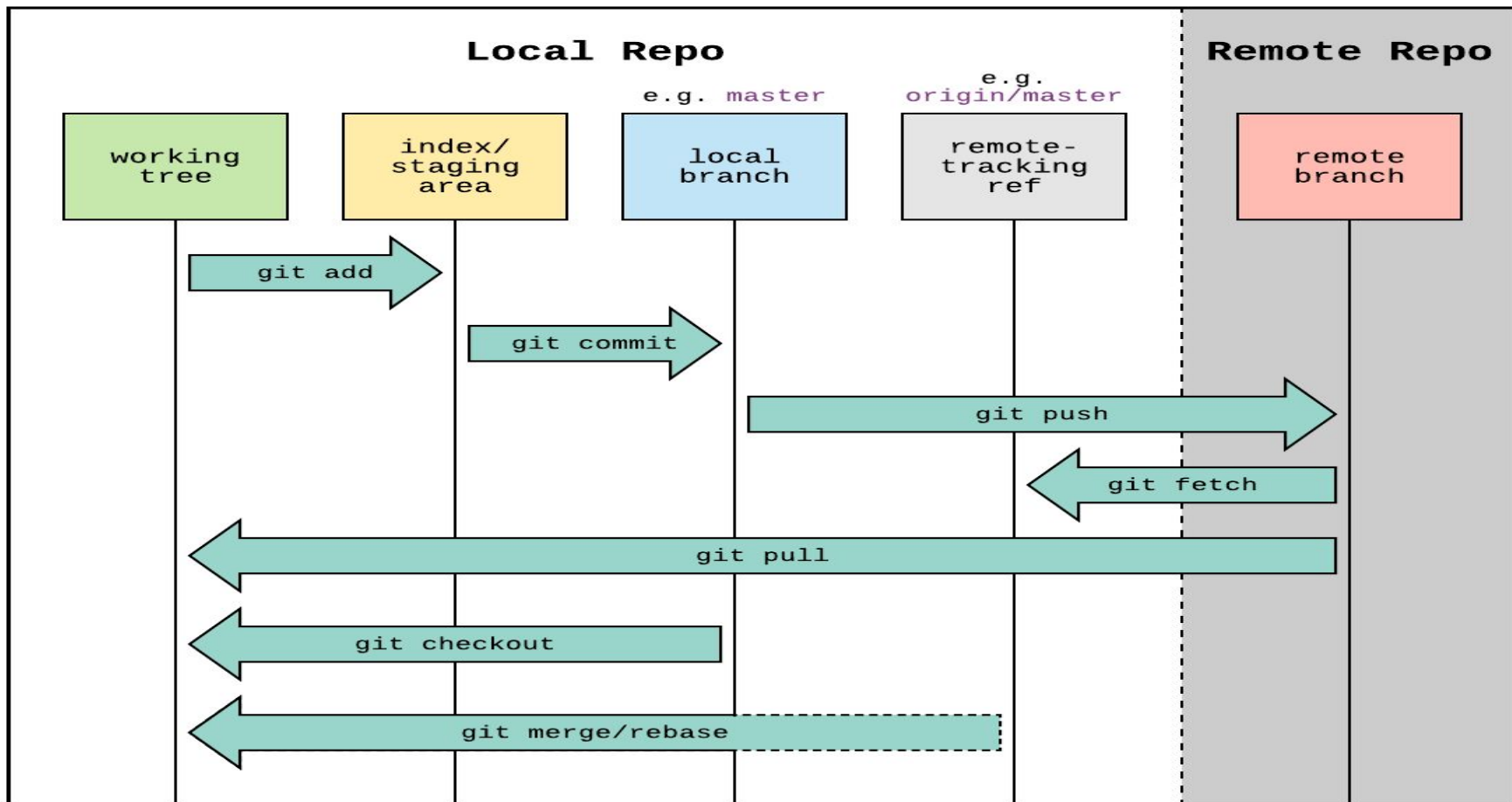


GitHub is exclusively cloud-based



# Git terminology

<https://linuxacademy.com/blog/linux/git-terms-explained/>



# Configure git

<https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>

**Create/clone/fork a repository**



**Add, commit and push to your repository**

# Create a pull request

# Merging?

<https://git-scm.com/docs/git-merge>

# Strategies to deal with local/remote code diff

# Cherry-picking commits

# Solving merge conflicts

**Thank you**