

# Build your own Git

Learn about git objects, plumbing commands and more



Start Building



Git is a version control system used to track changes in source code. In this challenge, you'll build your own Git implementation that is capable of cloning a public repository from GitHub.

Along the way, you'll learn about the .git directory, Git objects, plumbing commands and more.

## Stages

- |   |           |
|---|-----------|
|  Initialize the .git directory | VERY EASY |
|  Read a blob object            | MEDIUM    |
|  Create a blob object          | MEDIUM    |
|  Read a tree object            | MEDIUM    |
|  Write a tree object           | MEDIUM    |
|  Create a commit               | MEDIUM    |
|  Clone a repository            | HARD      |

“ Found out about CodeCrafters from a colleague. It's a tutorial site that has you build your own version of things like Git and Docker from scratch. A cool way to build a stronger mental model of how those tools work.



**Beyang Liu**

CTO, Sourcegraph



Never in my life have I needed something so much and not known until I received it.

**Lacronicus**

Reddit user



Programming challenges for seasoned developers.



## CHALLENGES

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