

mu-enigma.org

Enigma
The Computer Science Club,
Mahindra University



Hacktoberfest '22

Open source,  **git** tutorial, goodies and more!

Overview

Tip: Join our Discord server now!

Why: We have a new Hacktoberfest22 forum post in #events for you guys where you can ask doubts, find help with challenges etc. You can also have fun with us on the other casual channels!

- Introduction to  HACK TOBER FEST
- What is Open source?
- Some Open source projects
- Linux
- What is  git ?
- What is  Github?

- Back to  HACK TOBER FEST
- How to complete the challenge?
- Goodies!
- Q&A





We'll get to this later!

Intro to HACK TOBER FEST

- Month long challenge to celebrate **open-source**, and make meaningful code contributions
- Hosted by DigitalOcean, appwrite and docker

hacktoberfest.com

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But what is Open source?

- First open source project was GNU, by Richard Stallman
- Software that allows others to read/modify its code
- Contributions from many people, not just big companies
- Leads to better code, as everyone can see and improve it
- Better user privacy, lower costs and less *sus* software

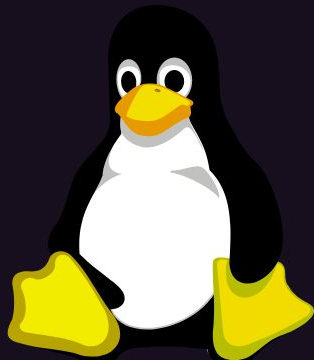
Examples



And many more including →

Linux

Open source Operating system kernel

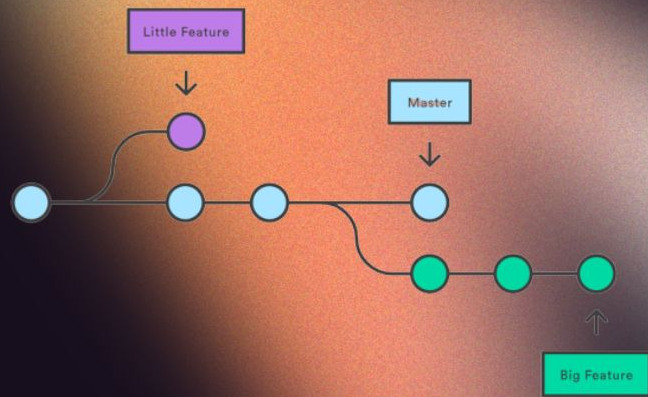


Highlights


- Made by Linus Torvalds
- Over 96% of servers run on Linux-based operating systems
- Over 20,000 contributors, making it the biggest open-source project

What is git?

- Originally founded by Linus Torvalds
- Version control system
- Allows people to collaborate on code/software



What is Github?

- Git repository hosting service
- Allows people to collaborate on code/software while its online
- Provides things like CI/CD, wikis etc. on top of  git

Nuff talk...



Let's get started our hands dirty!

Make an account on Github

- github.com

Download  **git** on your system

- git-scm.com/downloads

Configure  with name

- `git config --global user.name <username>`

Add mail to 

- `git config --global user.email <email>`

Fork the Github repo then clone

- `git clone <url>`

Commit!

Once you make changes, it's time to commit, or take a snapshot

Tip: You will need a Personal Access Token to make pushes to your Github. Here's the steps on how you can do that:

<https://docs.github.com/en/authentication/keeping-your-account-and-data-secure/creating-a-personal-access-token> [Link](#)



Check differences

- `git status`

Add all the files for committing

- `git add <file_name>`

Make the commit

- `git commit -m "Commit message"`

Push it to the world

- `git push origin master`

Check online repository

- Visit your Github repo to see the changes

Back to HACK TOBER FEST

- To complete the challenge, you have to contribute to an open-source repository that's not your own.
- 4 such contributions marks the completion of the challenge

How to complete the challenge?

- Head over to hacktoberfest.com and login with your Github account
- Once you're done linking, you're ready to start
- Clone a repo, make changes and open a Pull request
- Acceptance of 4 such pull requests marks the completion of the challenge

Steps to contribute

- We have set up a repository on Github to which you can contribute
- Choose your problem, head over to Issues and leave a comment saying which problem you wish to solve and in which language
- Solve and open a Pull request. Name your file as
yourname_type<num>_prob<num>.ext e.g. ravi_type2_prob69.py
- Wait for a moderator to accept your Pull request

Steps to contribute

Things to note:

- Every problem you solve must have one Issue prior to a Pull request.
- Every problem must have one Pull request. **Do not** club multiple solutions in a single Pull request, it will be rejected.
- If you have any doubt, reach out to us on Discord!



Goodies from Hacktoberfest 2020



Goodies

- Upon completion of the challenge, you will receive many goodies, like stickers from companies like JetBrains, DigitalOcean etc.
- Our favorite is the Hacktoberfest T-Shirt!

hacktoberfest.com

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Q&A

Ask us any of your doubts!



That's it from us!

Thank you for listening.



Technical difficulties

We'll be back shortly!

