What Open-Source has for you?

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October 10, 2021

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Agenda

- Version Control System (VCS)
- Git in detail
- GitHub
- Environment setup
- Demo

Version Control System (VCS)

↪ **Tracks** are left.

↪ **Automatic backup** available.

↪ Can be **shared** on multiple computers.

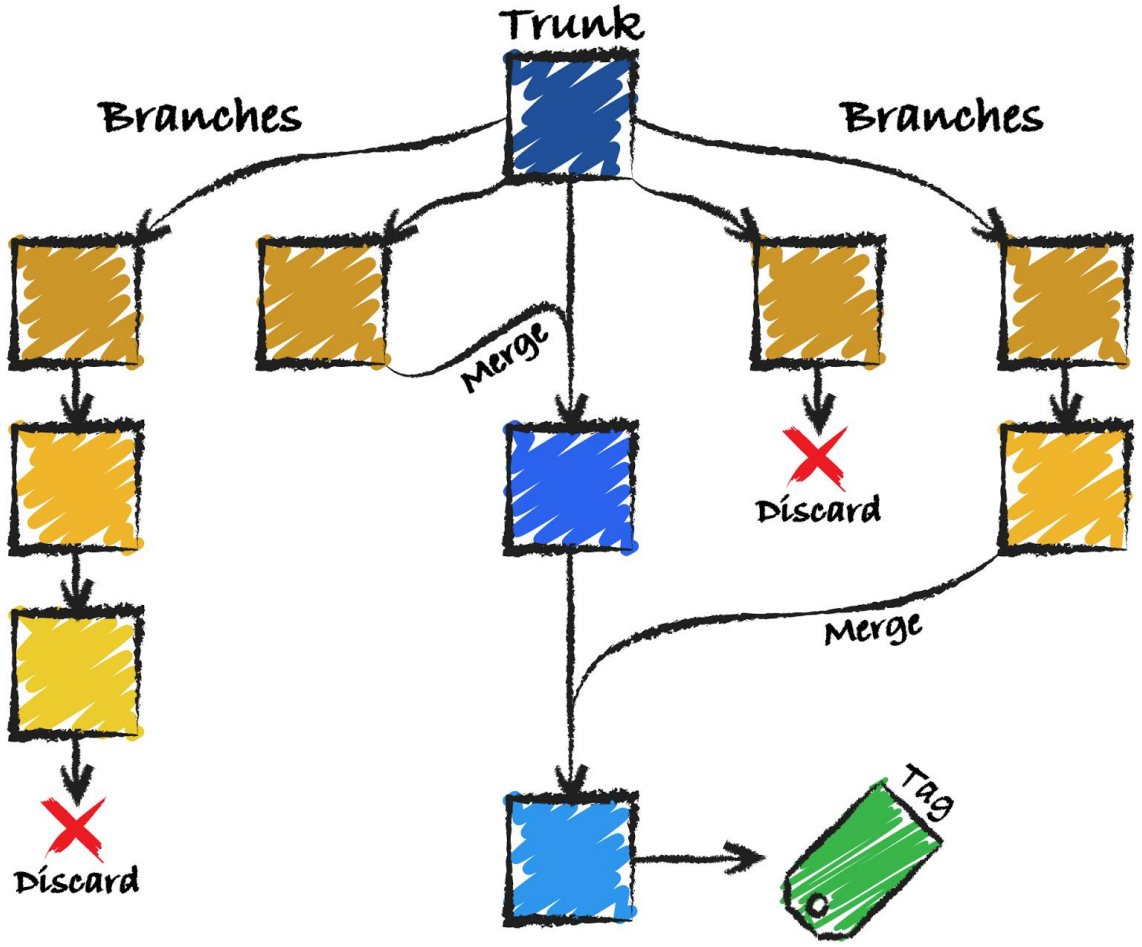
Developers can **work together** through branches.

↪ Changes can be **recorded, compared and reverted**.

↪ Example: Git, Subversion (SVN), Concurrent Version System (CVS) and many more.

(It means if you screw things up or lose files, you can easily recover them.)

Version Control System (VCS)



git Vocabulary

Repository

Collection of stored code.

Branch

Indicator of divergence from base.

Issue

Default task or request to complete.

Fork

Copy of repository on your system.

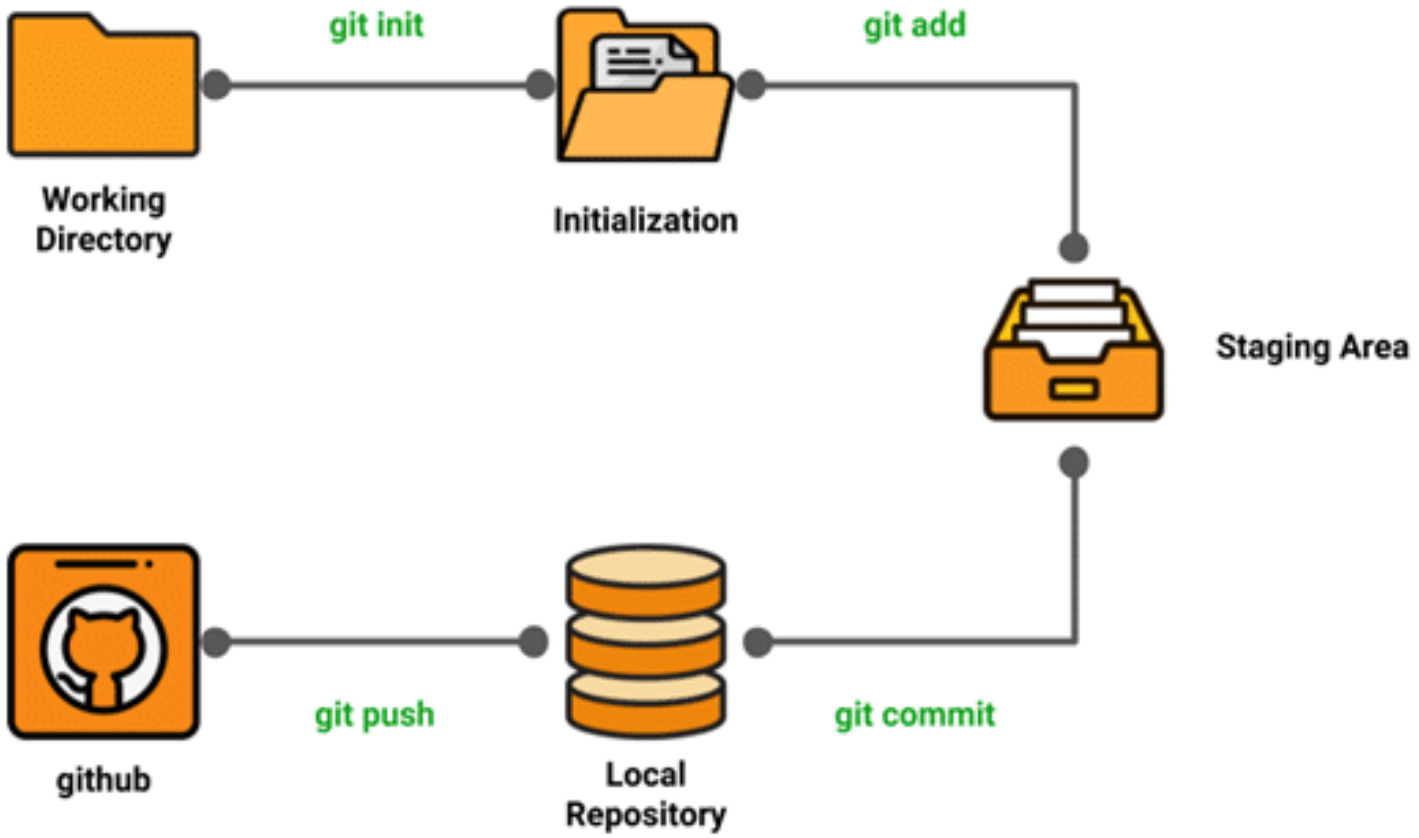
Organization

Collection on repositories.

Commit

Point in time snapshot with changes.

git and GitHub



Environment Setup

- Install Git
- Create a GitHub account
- Configure Git
- Create a local repository

git Installation

- Linux (Debian)

  Command: **sudo apt-get install git!**

- Linux (Fedora)

  Command: **sudo yum install git!**

- Mac

  http://git-scm.com/download/mac

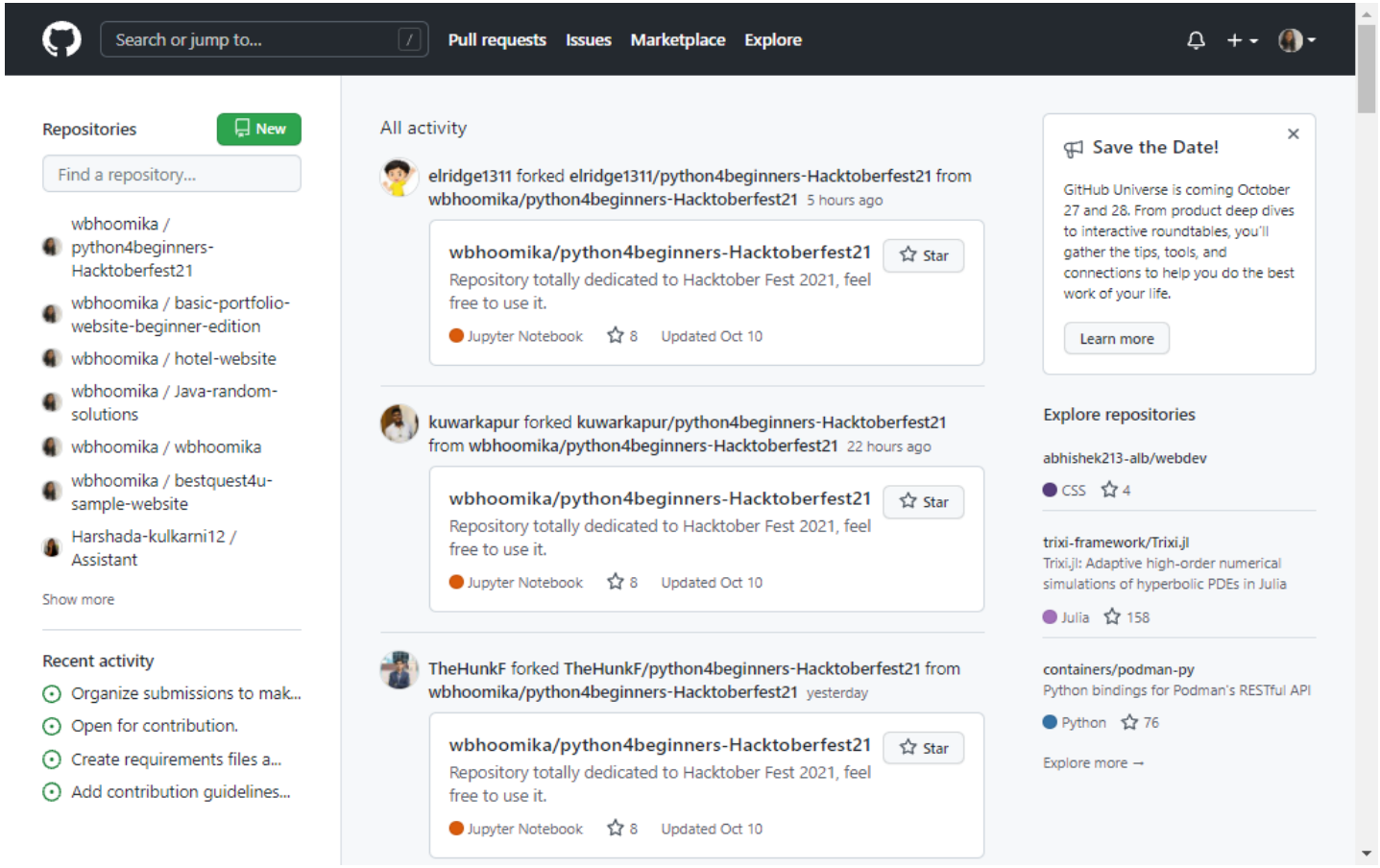
- Windows

  http://git-scm.com/download/win

Creating a  GitHub account

- Go to https://Github.com
- Create a GitHub account
- Login

Creating a GitHub account



Configure git

↪ Generate key

```
ssh-keygen -t rsa -C "user@email"
```

↪ Import public key into Github

```
ssh -T git@github.com
```

↪ Configure name and email

```
git config –global user.name "user1"
git config –global user.email "user1@email”
```

Let’s go to demo

P.S. I will upload complete presentation after the session.