

A large, semi-transparent Git logo watermark is centered in the background. It features a diamond shape with a vertical line and two circles, and a horizontal line with two circles, intersecting at the center.

Introduction to Git

Contributing to Open Source

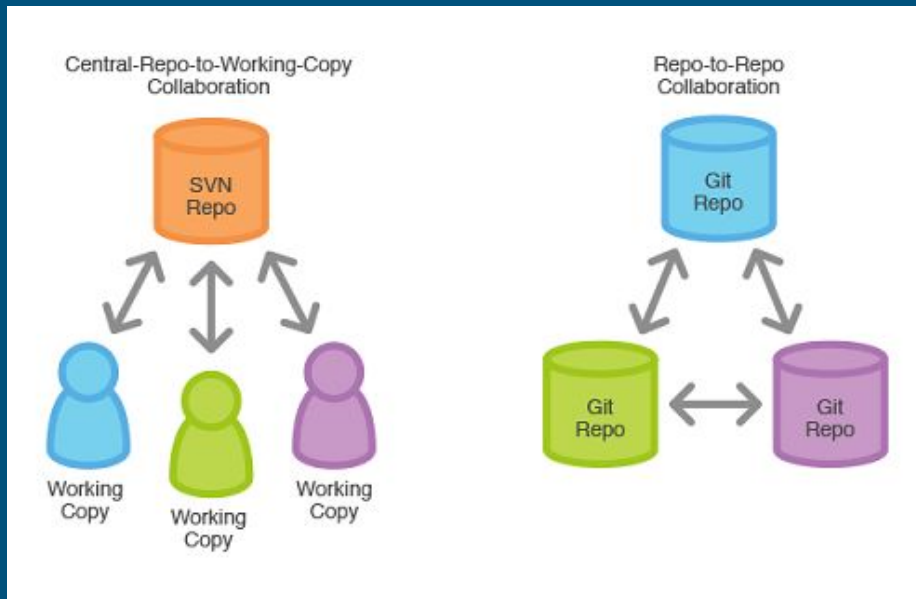
Contributing to Open-Source Projects

- Open-source software is software that is freely available to use, redistribute, and modify. Projects that are open source encourage a transparent process that is advanced through distributed peer review.
- Git makes team-based and open-source software projects easy to contribute to and to maintain. Free to download and use, Git is an example of an open-source project itself.
- Finally, if you're just starting out with contributing to open-source software, start with something small!!

What is Version Control?

Version control is a system that records changes to a file or set of files over time so that you can recall specific **versions** later.

Centralized
Version Control



Distributed
Version Control

Git

- Git was created in 2005 by Linus Torvalds, the creator of the Linux kernel.
- Originally utilized for the development of the Linux kernel, Junio Hamano is the current maintainer of the project.
- Many projects maintain their files in a Git repository, and sites like GitHub, GitLab, and Bitbucket have made sharing and contributing to code simple, valuable, and effective.

Installing Git on Linux

You can use the apt package management tools to update your local package index. Afterwards, you can download and install the program:

```
$ sudo apt-get update
```

```
$ sudo apt-get install git
```

Setting up Git

Now that you have Git installed, you need to do a few things so that the commit messages that will be generated for you will contain your correct information.

```
$ git config --global user.name "Your Name"
```

```
$ git config --global user.email "youremail@domain.com"
```

Demo Time!

