




git

Hi, I'm **abstractxan**

Associate
Software Engineer at
 **Schoolology team,**
Powerschool

Let's talk about
git

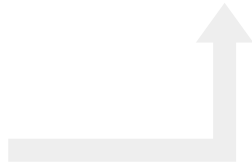
Agenda:

- **Version Control**
- **Basic Git CLI**
- **Github**
- **QnA**

Version Control

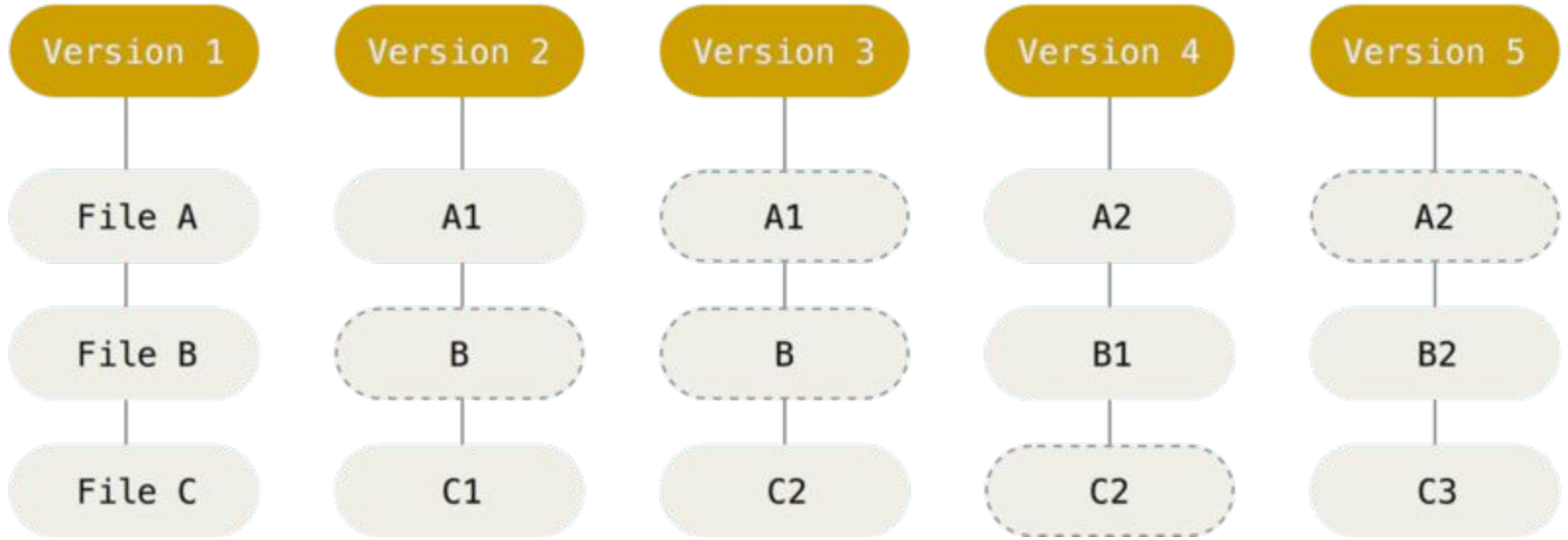
A system that **records changes** to a file or set of files over time so that you can recall specific versions later

damage control™



VERSION CONTROL

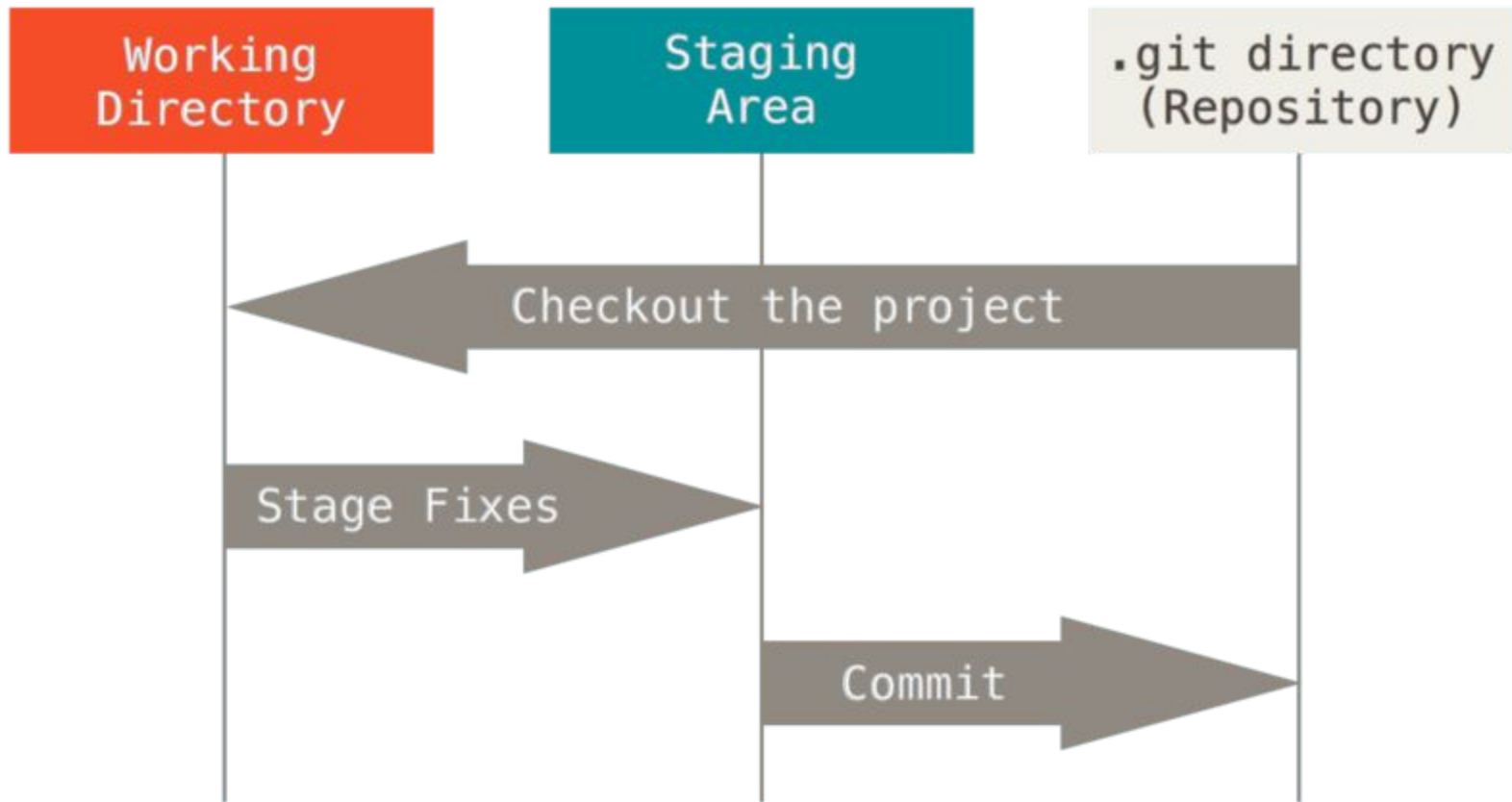
Checkins Over Time



Stream of snapshots - source: git-scm.com

VERSION CONTROL

The Three **States**



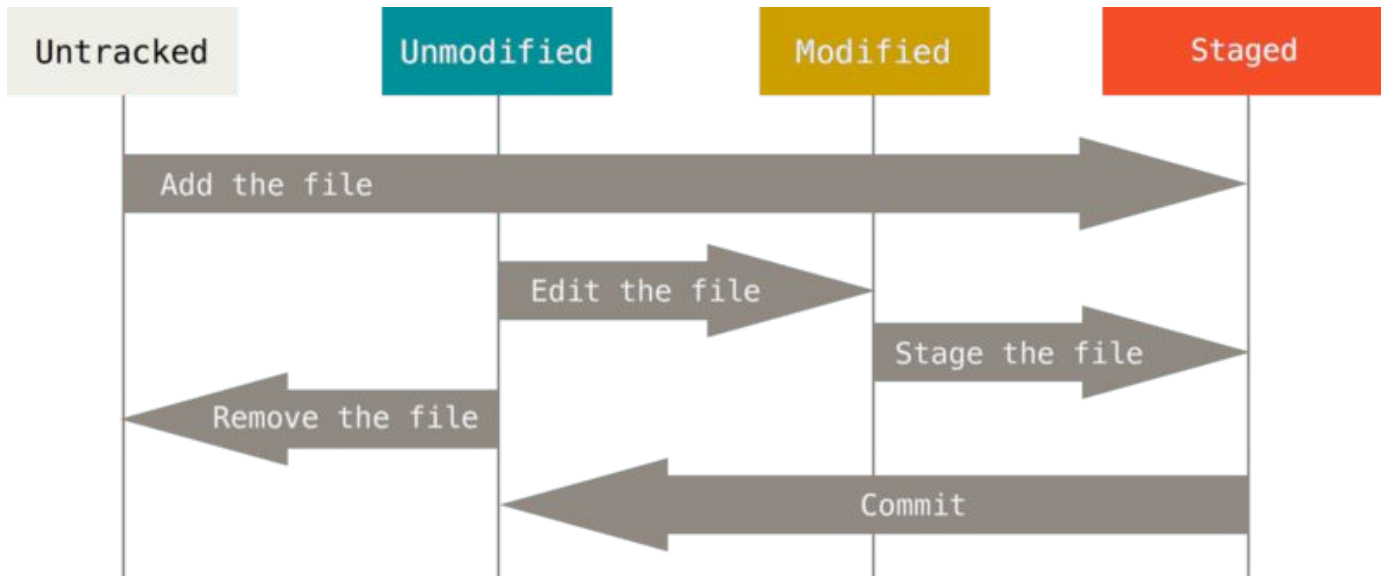
VERSION CONTROL

The basic Git workflow goes something like this:

1. You modify files in your working tree.
2. You selectively stage just those changes you want to be part of your next commit, which adds **only** those changes to the staging area.
3. You do a commit, which takes the files as they are in the staging area and stores that snapshot permanently to your Git directory.

Basic git workflow - source: git-scm.com

Git CLI



Download

<https://git-scm.com/downloads>

Basic Commands

<https://training.github.com/downloads/github-git-cheat-sheet/>

Terminal Time

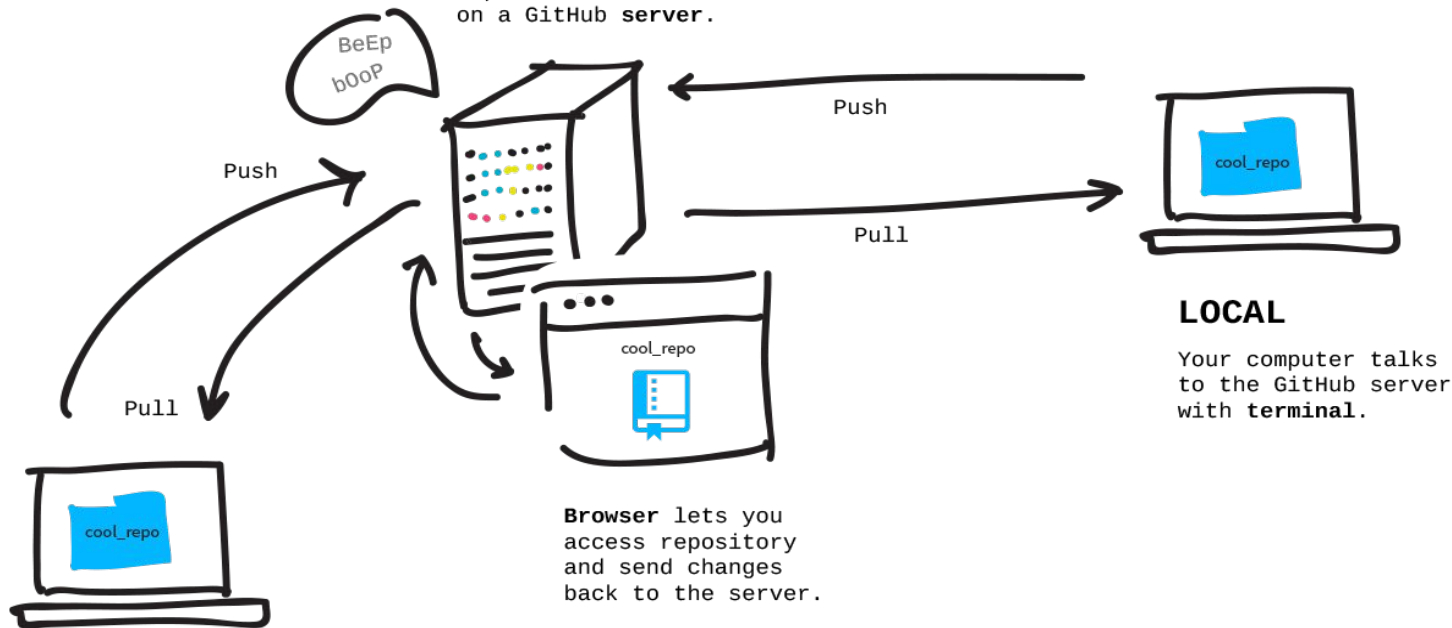


GitHub



REMOTE

Repositories live on a GitHub server.



LOCAL

Your computer talks to the GitHub server with **terminal**.

LOCAL

Someone else's computer talks to the GitHub server.

Agenda

- **Create/Fork repo**
- **Clone to local**
- **Push changes**
- **Issues**



100

@hundredrabbits



Replying to [@hundredrabbits](#)

Github truly is the facebook of programming.

9:07 PM · Oct 1, 2020 · Twitter Web App

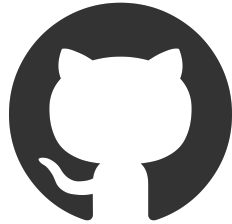
12 Retweets

62 Likes

Alternatives to Github

- **Gitlab**
- **Bitbucket**
- **Sourcehut**

Questions?



Sources:

[Git-scm.com](https://git-scm.com)

<https://training.github.com/downloads/github-git-cheat-sheet/>