

KBTG x MeowCode

Say “hello”
Git & GitHub

Jetsukda Janthornthao
AI Engineer @ Ztrus





Introduction to Git and other version control

- What is version control?
- Local version control systems
- Centralized version control systems
- Distributed version control systems
- What is Git?
- Git installation
- Git visualization

What is version control?

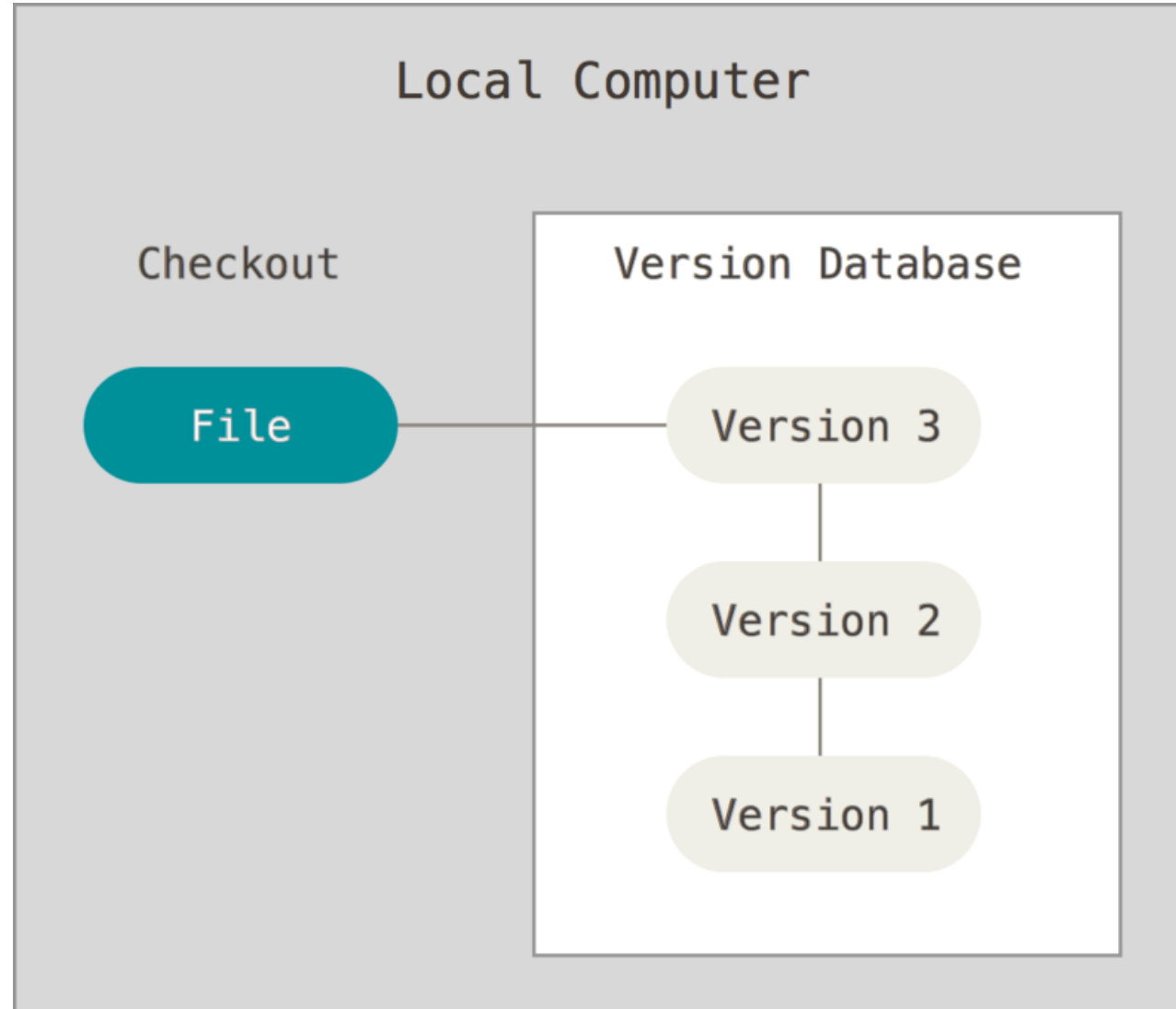


- Version Control Systems (VCS)
- keeps records changes to a file or set of files
- keeps records changes to a file or set of files
- Git, Subversion, Mercurial, CVS

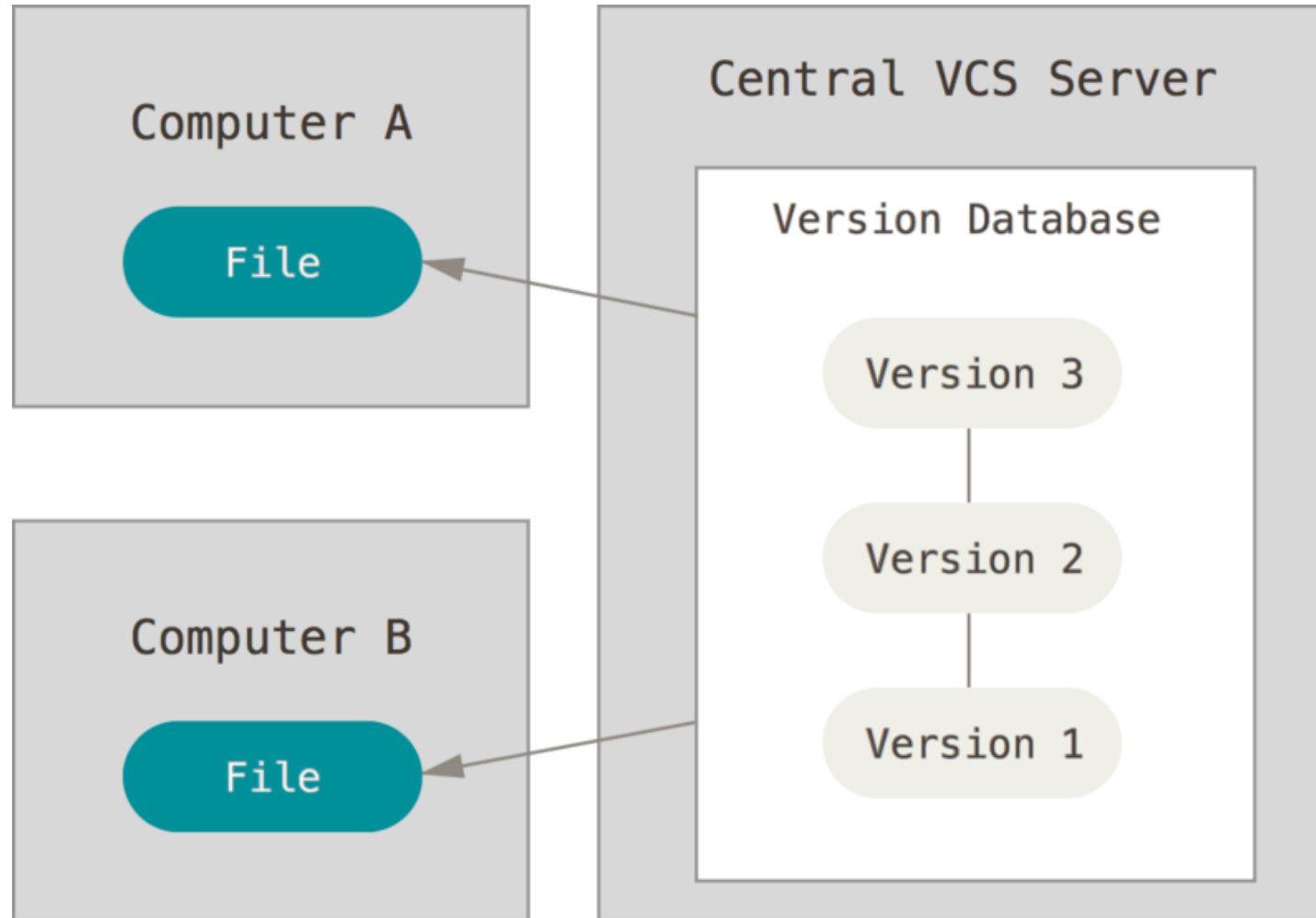


TOP VERSION CONTROL SYSTEMS

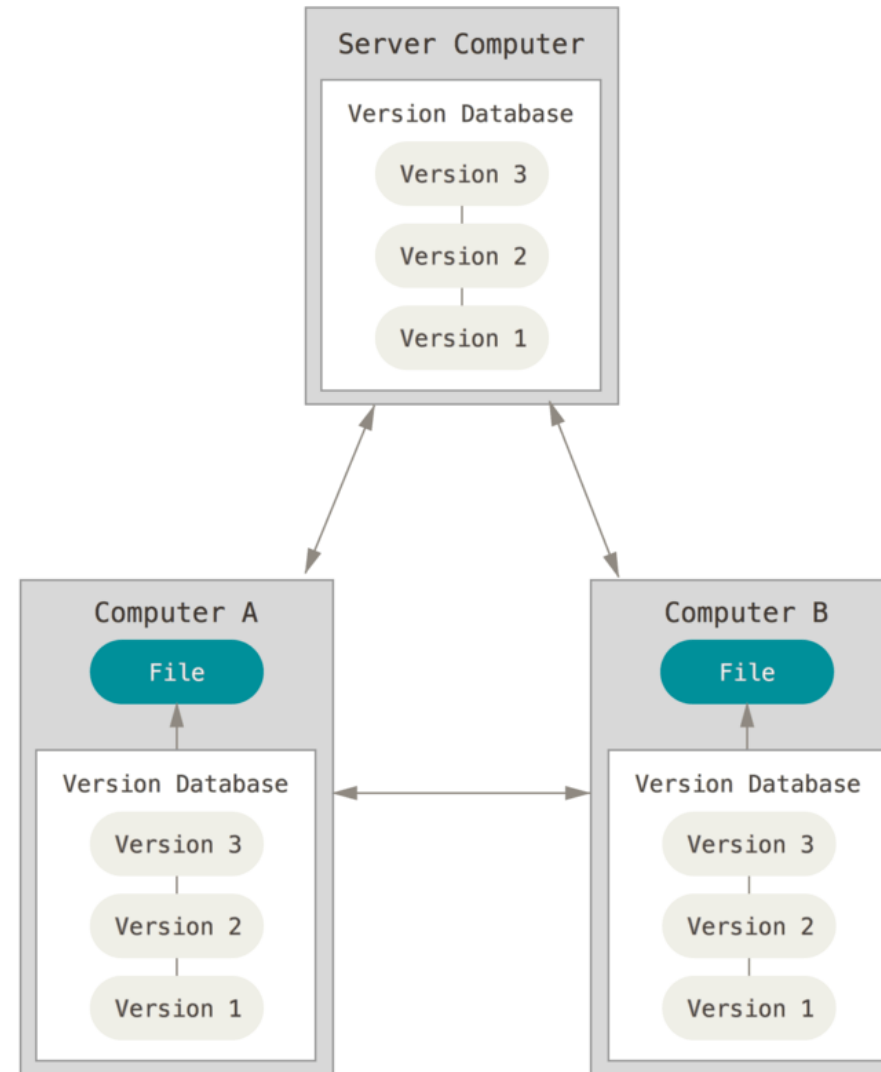
Local version control systems



Centralized version control systems



Distributed version control



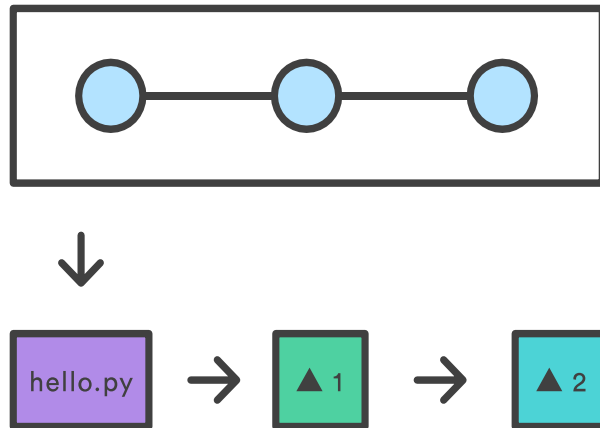
<https://git-scm.com/book/en/v2/Getting-Started-About-Version-Control>

Subversion(SVN) to Git

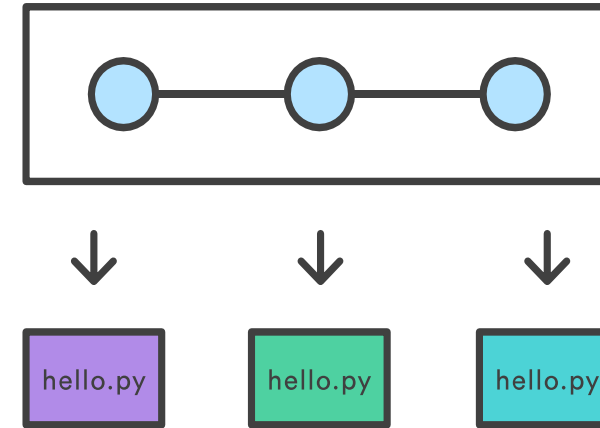


Snapshots, not differences

Recording File Diffs (SVN)



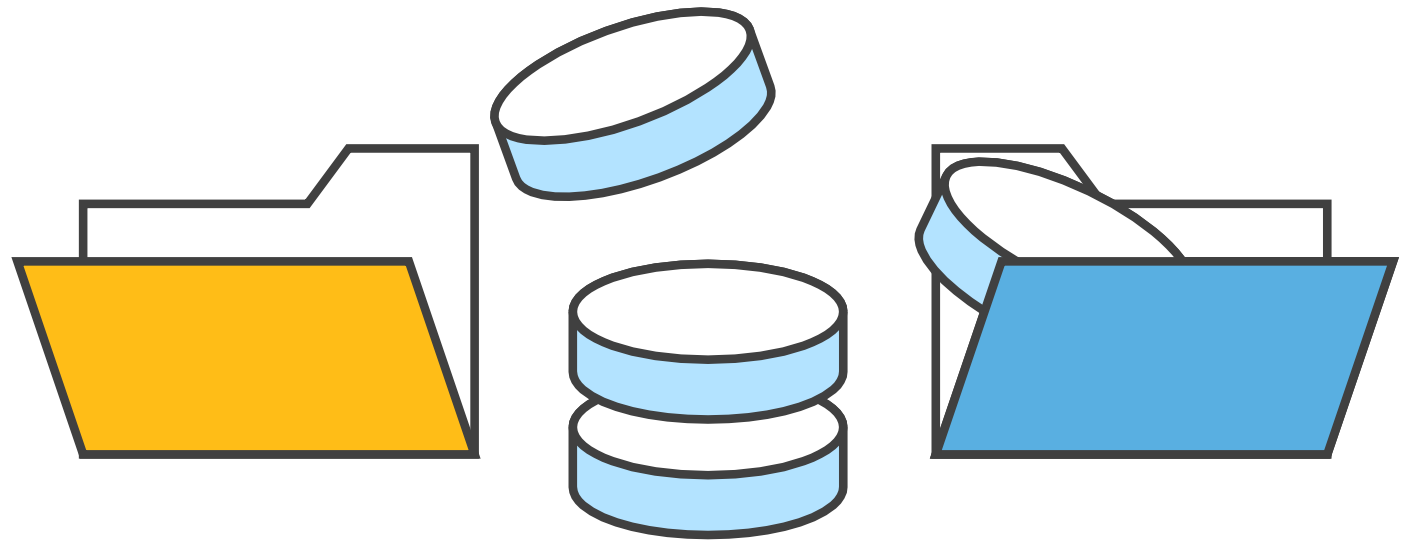
Recording Snapshots (Git)



Why Git for your organization



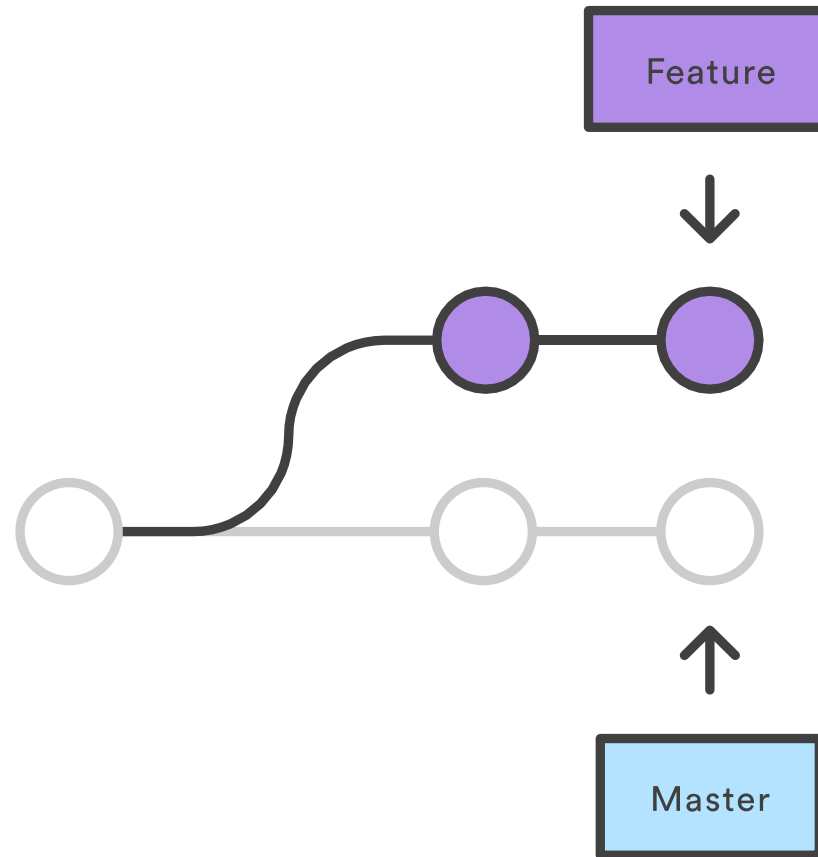
- Developers
- Marketing
- Product Management
- Designers
- Customer Support
- Human Resources
- Anyone managing a budget



Git for developers



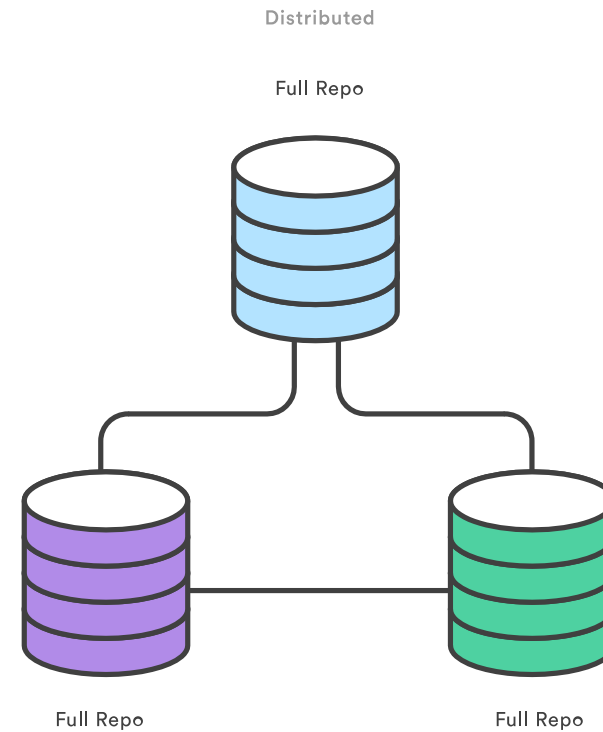
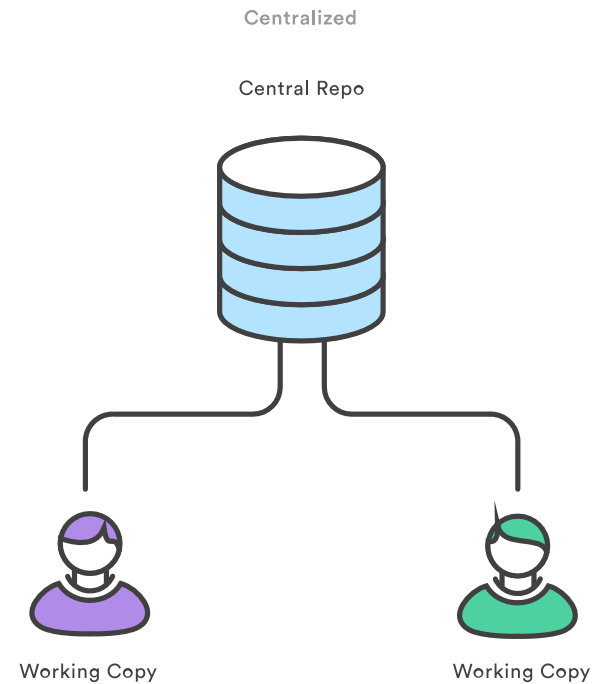
- Feature Branch Workflow



Git for developers



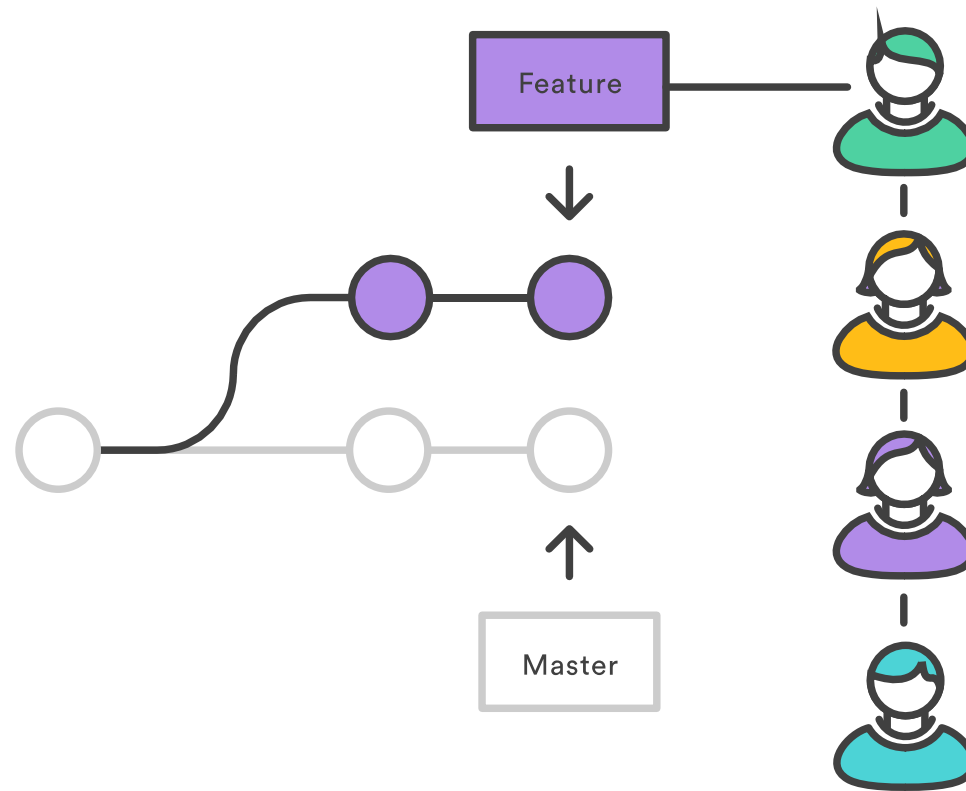
- Distributed Development



Git for developers



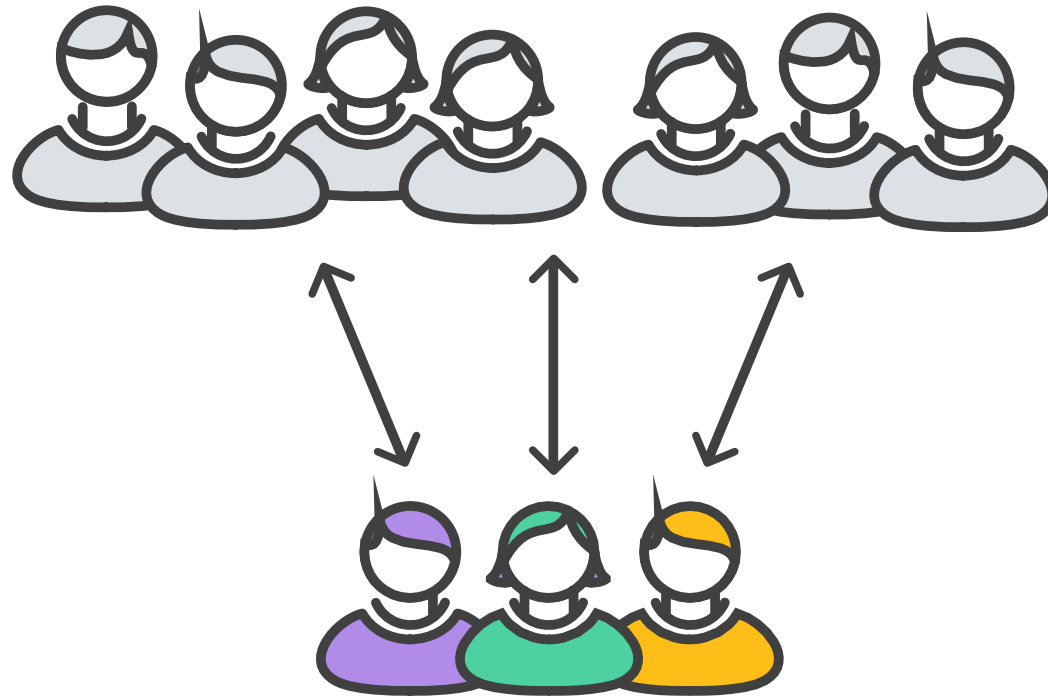
- Pull Requests



Git for developers



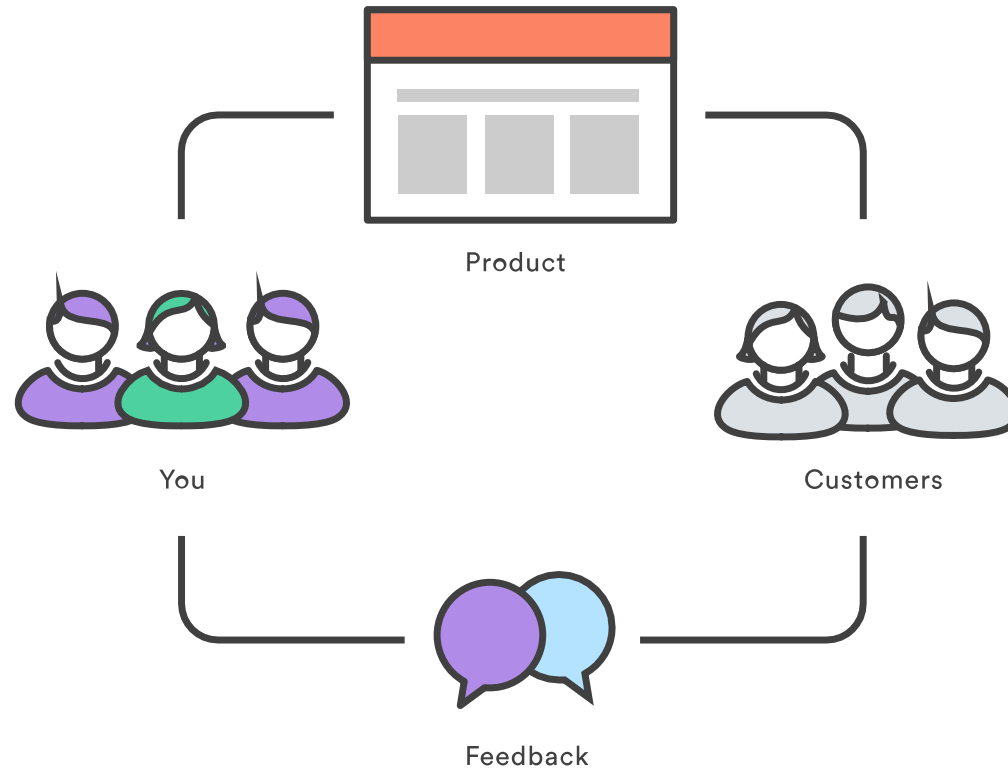
- Community



Git for developers



- Faster Release Cycle



Install Git



Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.



About

The advantages of Git compared to other source control systems.



Documentation

Command reference pages, Pro Git book content, videos and other material.



Downloads

GUI clients and binary releases for all major platforms.



Community

Get involved! Bug reporting, mailing list, chat, development and more.



Pro Git by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).



Windows GUIs



Tarballs



Mac Build



Source Code

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

Git Visualization



<https://www.gitkraken.com/git-client>



GitHub
Desktop

<https://desktop.github.com/>



Sourcetree

<https://www.sourcetreeapp.com/>

GitHub Desktop



Sourcetree

The screenshot displays the Sourcetree application window. The top menu bar includes File, Edit, View, Repository, Actions, Tools, and Help. Below the menu is a toolbar with icons for Commit, Pull, Push, Fetch, Branch, Merge, Stash, Discard, and Tag. The left sidebar shows the Workspace panel with options for File Status, History, and Search. The main area displays a commit history table with columns for Description, Date, Author, and Commit. The table lists several commits, including a recent one from Daniel Bourke dated 27 Jun 2020 15:36. The bottom status bar shows 'Conflicted files, sorted by file status'.

Description	Date	Author	Commit
Uncommitted changes	27 Jun 2020 15:36	*	*
Merge pull request #19 from pavanskipo/typo-in-matplotlib-solutions	15 Jun 2020 11:20	Daniel Bourke <d	ba87739
Merge pull request #18 from ImadSai/patch-1	15 Jun 2020 11:19	Daniel Bourke <da	3e4d342
add sklearn pipeline image	15 Jun 2020 11:18	Daniel Bourke <da	1697547
Fixed the typo - xlabel and ylabel were interchanged for the bar plot in matplotlib exercise solution	12 Jun 2020 19:06	Pavanskipo <pavar	6908cf1
Update car-sales-data-manufacture.ipynb	12 Jun 2020 1:59	Imad Salki <Imad.s	326b633
fix section 4. error, make instruction clearer	3 Jun 2020 8:32	Daniel Bourke <da	d6c04f3
update numpy exercises and solutions comments	29 May 2020 7:00	Daniel Bourke <da	b9e7141
fix colab notebook link	6 May 2020 7:49	Daniel Bourke <da	3f4fde7
Merge branch 'wip' fix notebooks not working in master	6 May 2020 7:35	Daniel Bourke <da	676e686
update colab links and typos	6 May 2020 7:35	Daniel Bourke <da	1c1c626
update colab links and typos	6 May 2020 7:28	Daniel Bourke <da	3aea68c
update colab links	6 May 2020 7:23	Daniel Bourke <da	c237de5
Update README.md	5 May 2020 10:12	Daniel Bourke <da	d684a8a
Merge pull request #16 from binarymatter/master	28 Apr 2020 6:56	Daniel Bourke <da	a0020cc
Updated a small spelling mistake	27 Apr 2020 13:08	S Sidharth <43806	84438db
Merge pull request #15 from rodrez/patch-1	27 Apr 2020 13:00	Daniel Bourke <da	50f1aae

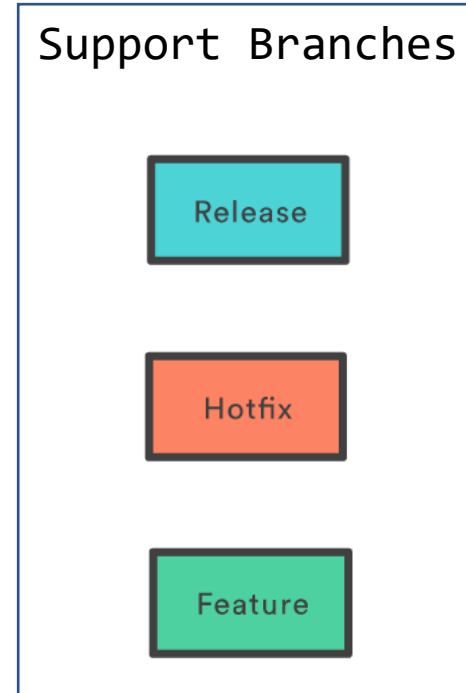
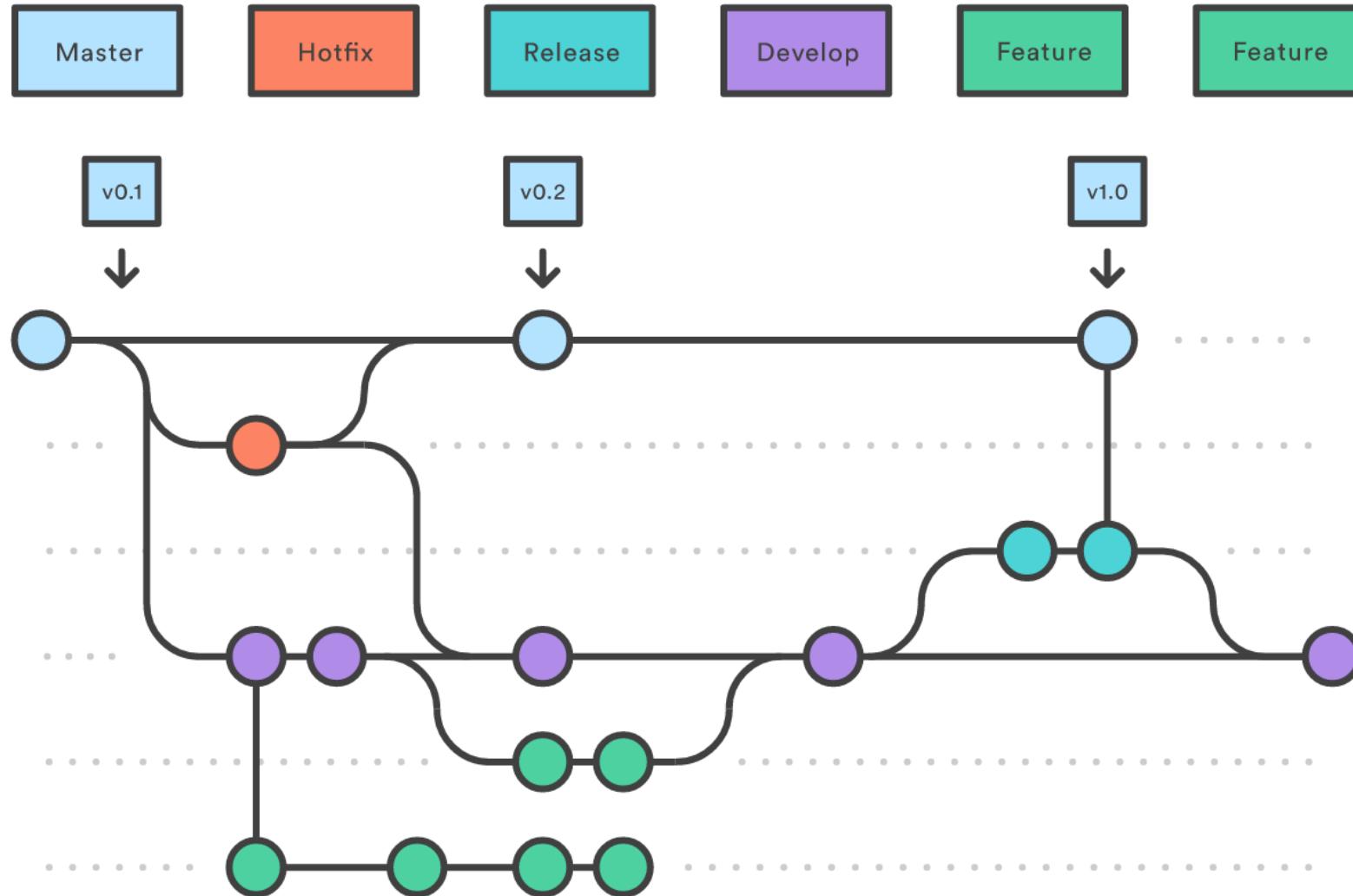
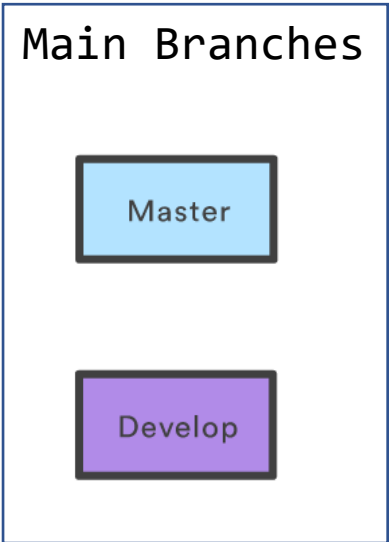
<https://www.sourcetreeapp.com/>



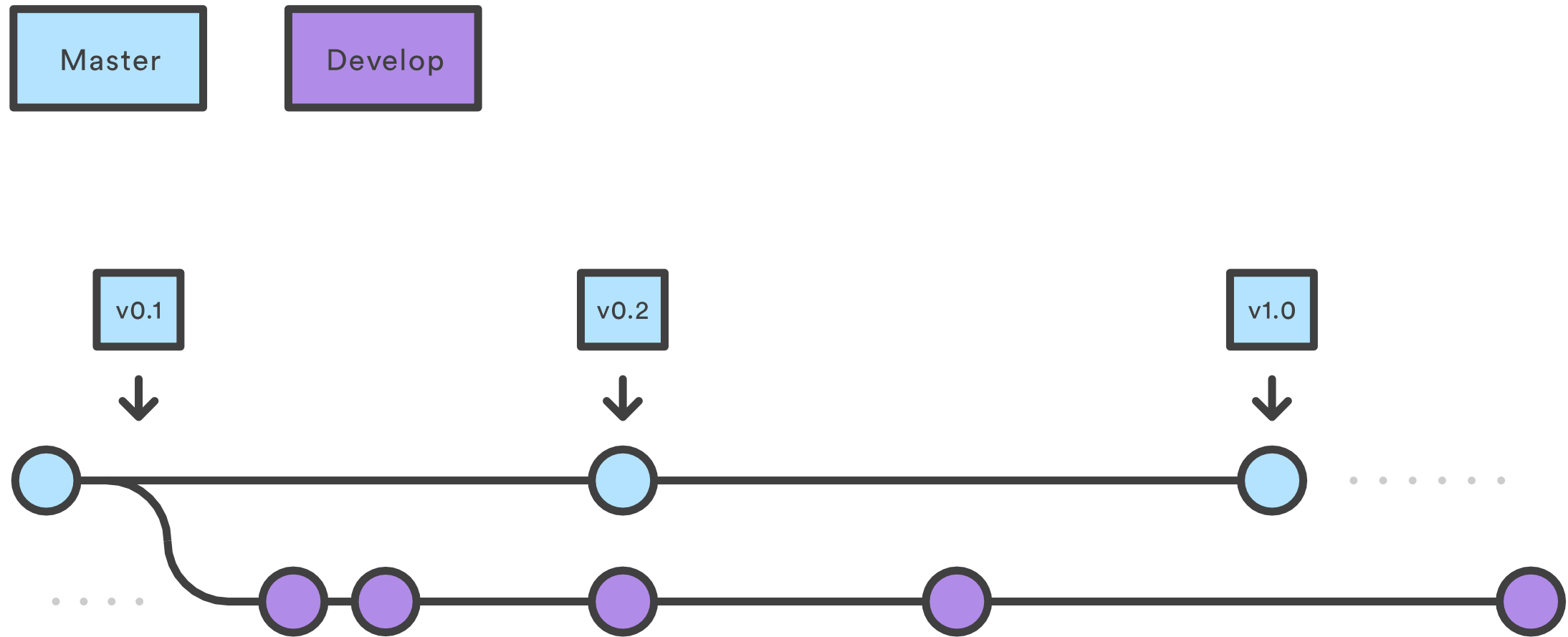
Git Basics 101

- Git Workflow
- Git Terminology
- The Staging Area
- Git Environment Setup
- Git command line

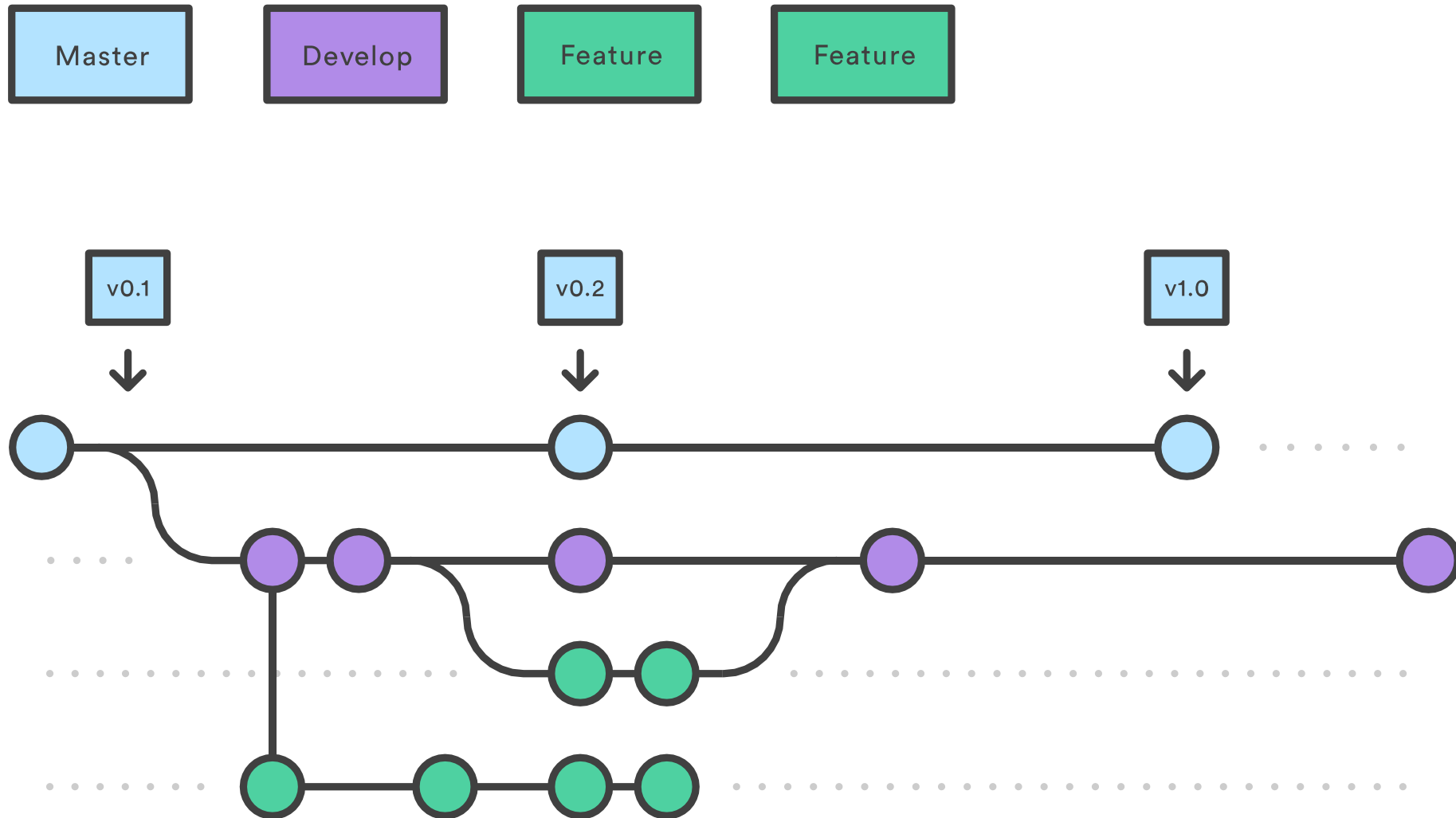
Git Branches: overview



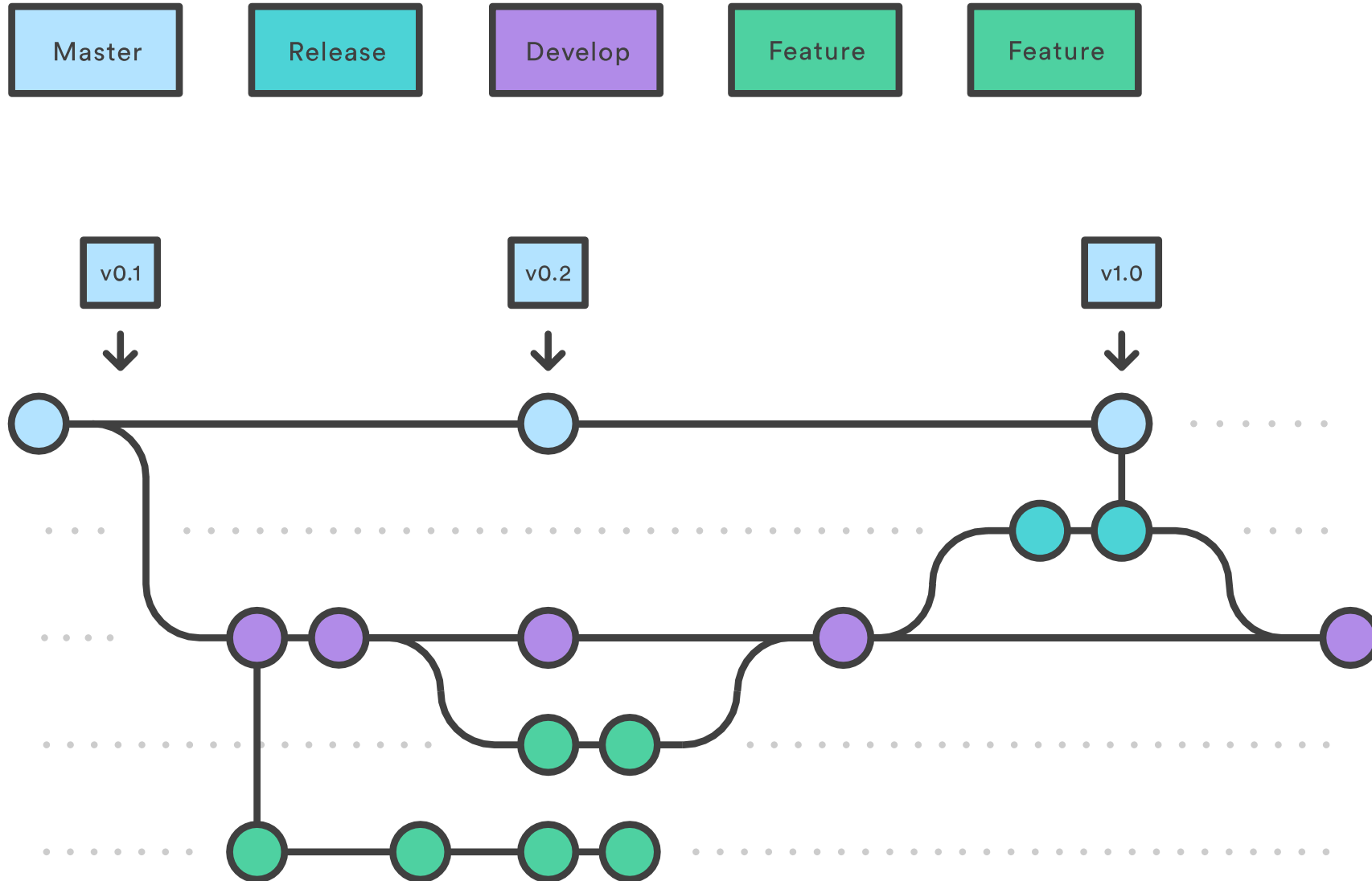
Git Branches: Develop and Master Branches



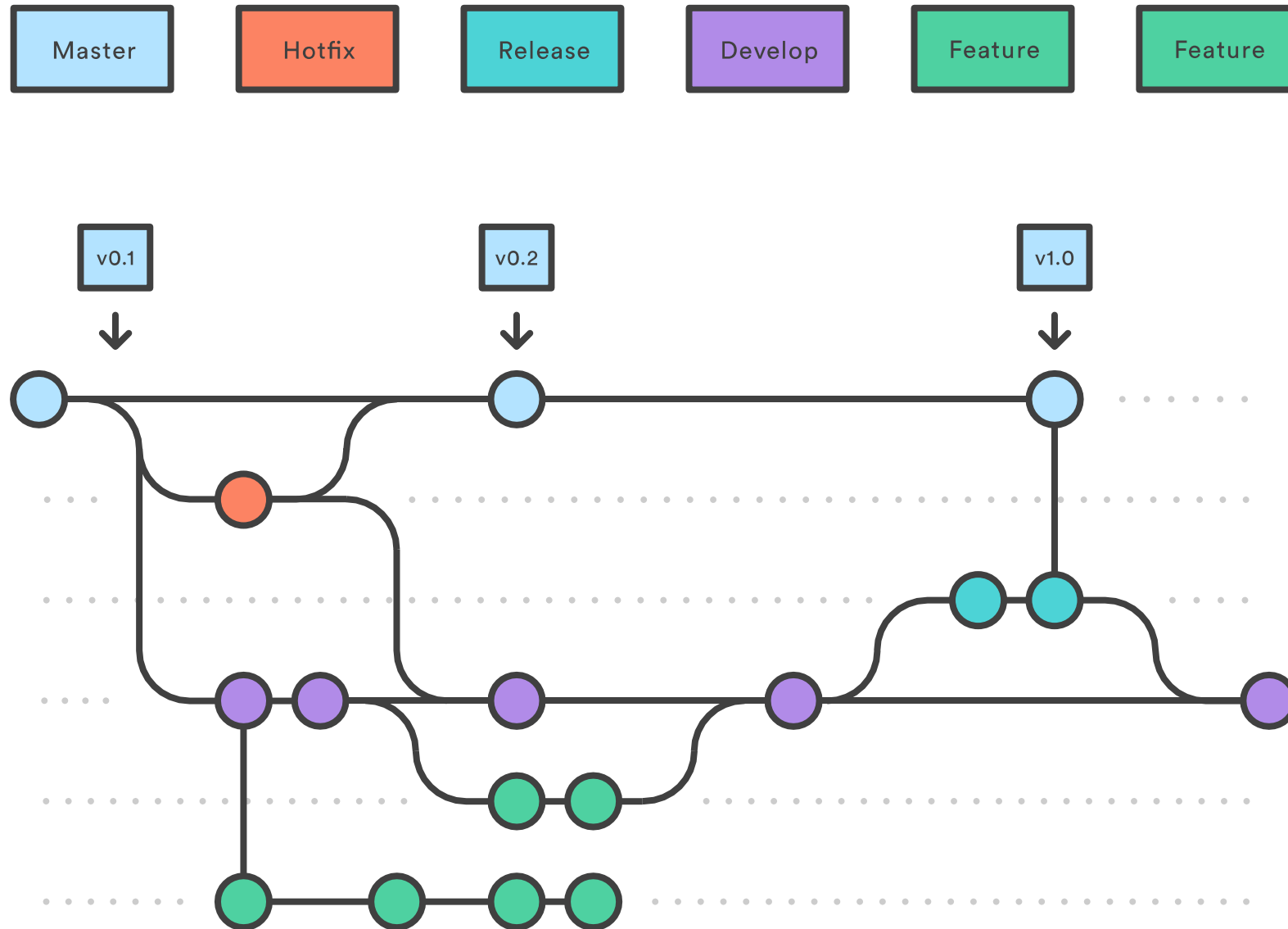
Git Branches: Feature Branches



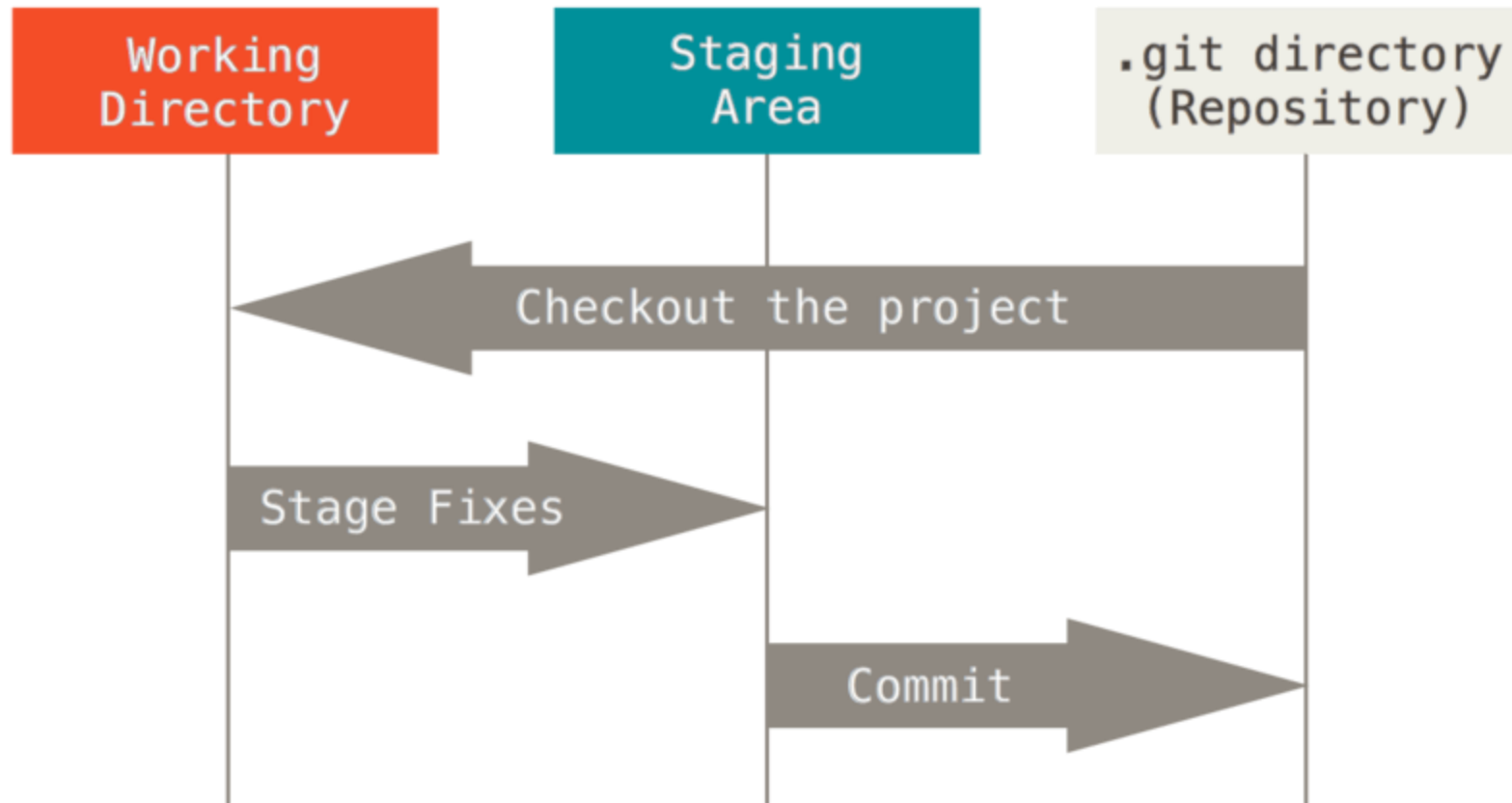
Git Branches: Release Branches



Git Branches: Hotfix Branches



The Staging Area

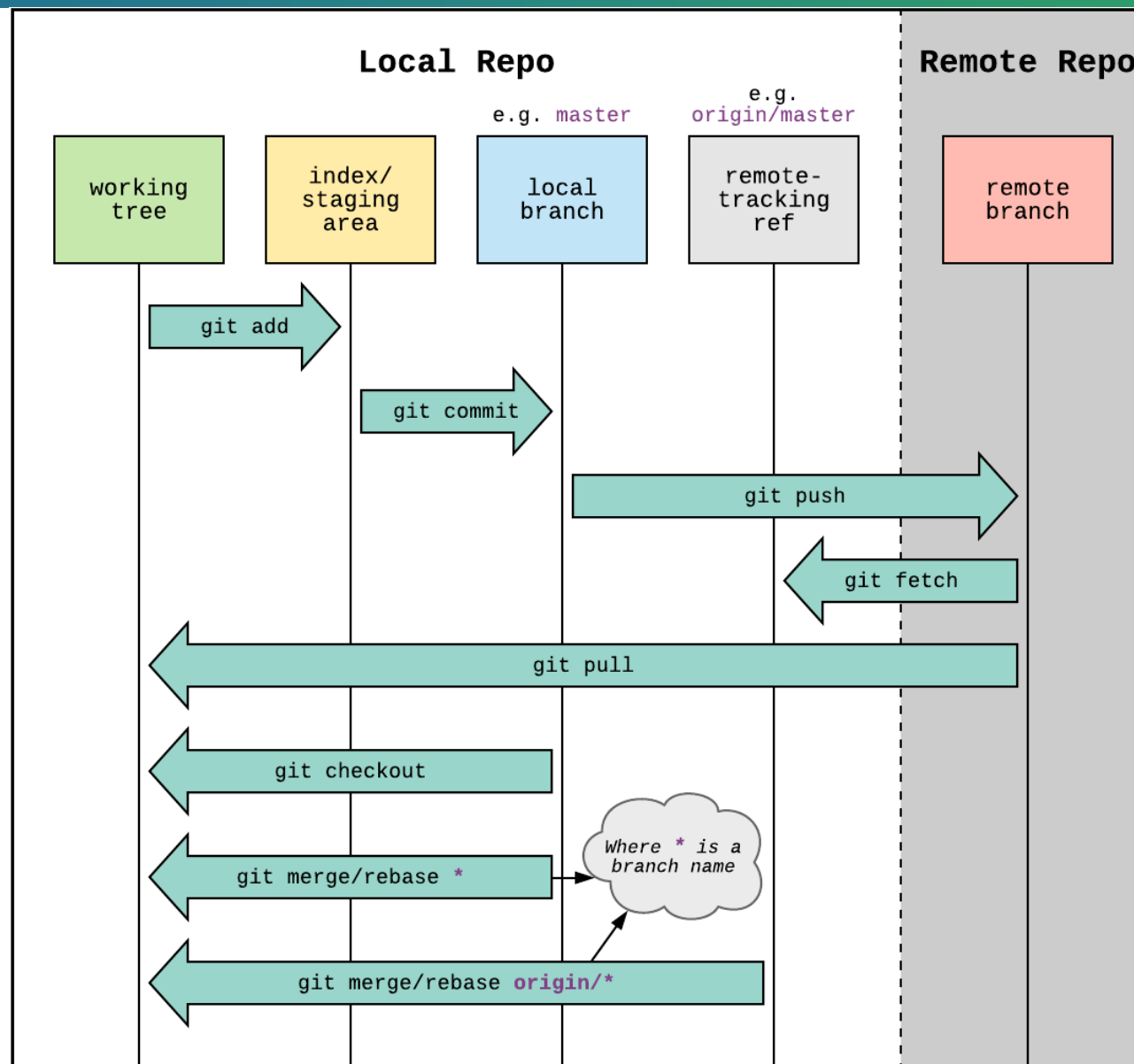


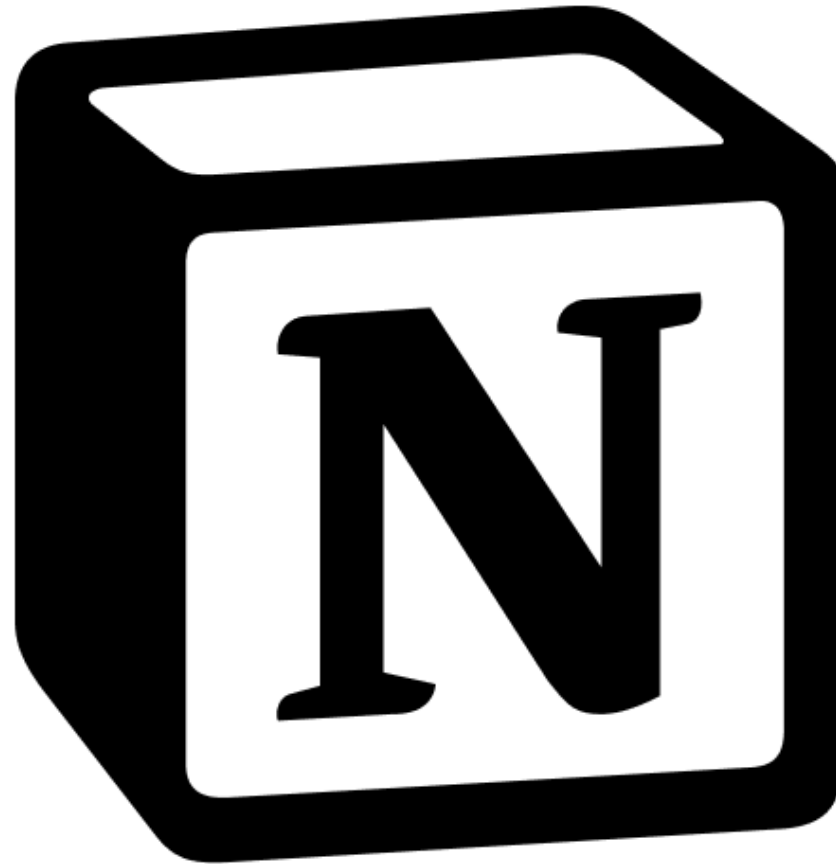
Git Terminology: the repo



- **Project:** the thing you are working on
- **Repository or repo:** folder/database containing all files/versions
- **Remote:** server hosting a repo of the same project
- **Cloning:** creating a local copy of a remote repository
- **Forking:** creating a remote copy of a remote repository

Git Terminology: overview



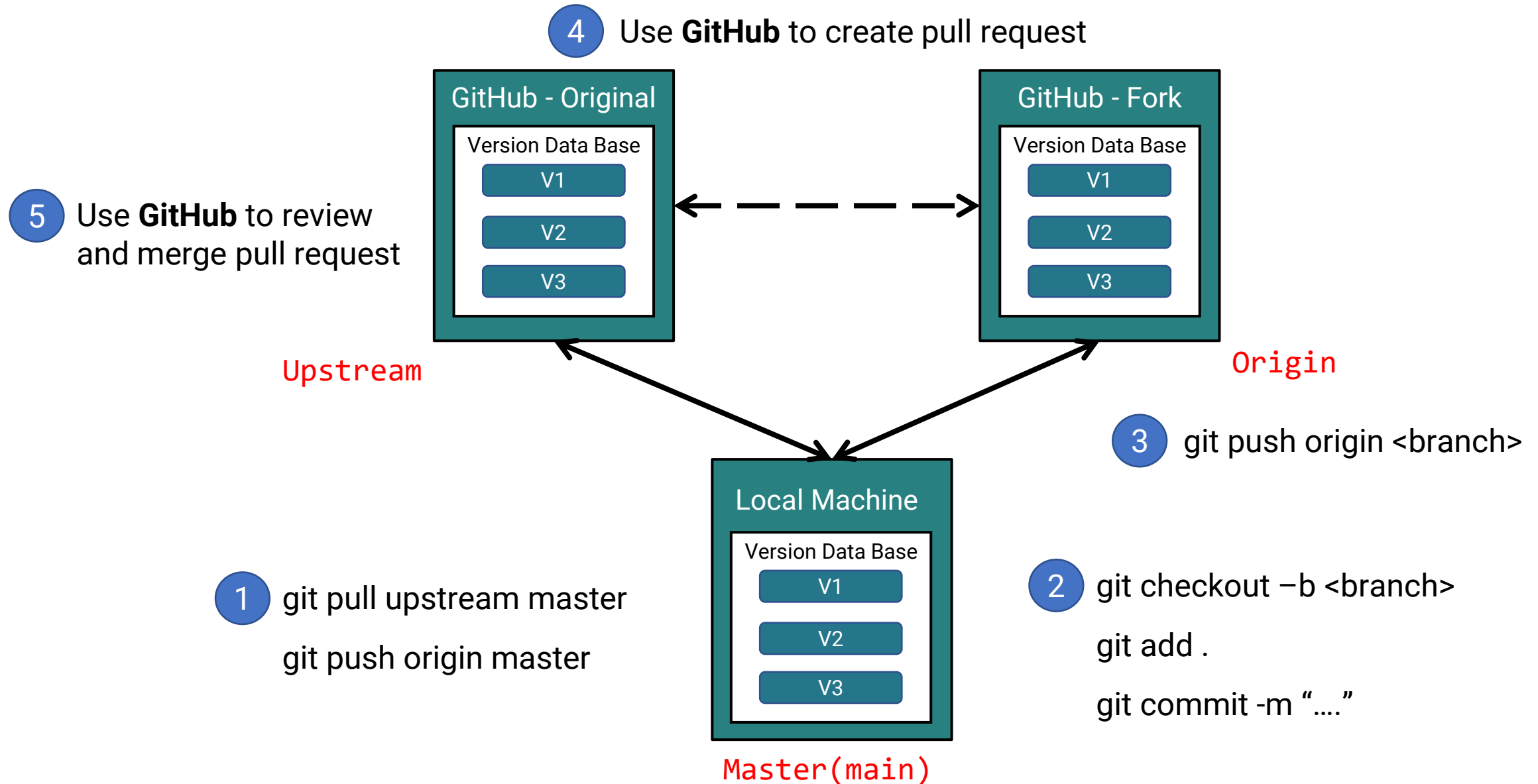




Introduction to GitHub

- Git workflow for team collaboration

Git workflow for team collaboration



Git Workshop



KBTGxMeowCode

Git-KBTGxMeowCode



Jetsukda Janthornthao

Jetsukda

AI Engineer - Read & Learn -> Practice

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Accomate Co., Ltd (Ztrus)

Bangkok, Thailand

Overview

Repositories

Projects

Packages

Pinned

Customize your pins

KBTGxMeowCode

Learn Machine Learning and Git & GitHub

Git-KBTGxMeowCode

Say "Hello" Git & GitHub by KBTGxMeowCode

DataCamp-2-for-Data-Scientist

Repository for Homework

Jupyter Notebook

zero-to-mastery-ml

Forked from mrdbourne/zero-to-mastery-ml

[WORK IN PROGRESS] All course materials for ZTM ML on Udemy

Jupyter Notebook

100-Days-Of-ML-Code

Forked from Avik-Jain/100-Days-Of-ML-Code

100 Days of ML Coding

Python

basics

Forked from madewithml/basics

Learn ML with clean code, simplified math and illustrative visuals. As you learn, work on interesting projects and share them on <https://madewithml.com> for the community to discover and learn from!

Jupyter Notebook

151 contributions in the last year

Contribution settings