Getting Started with Git

GET UP AND RUNNING WITH GIT

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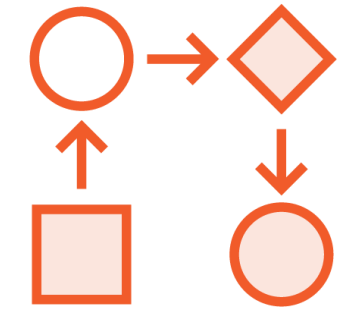
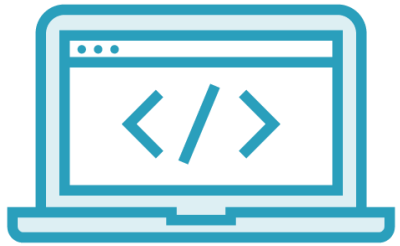
SERVICES PROGRAM ARCHITECT

www.github.com/a-a-ron





git

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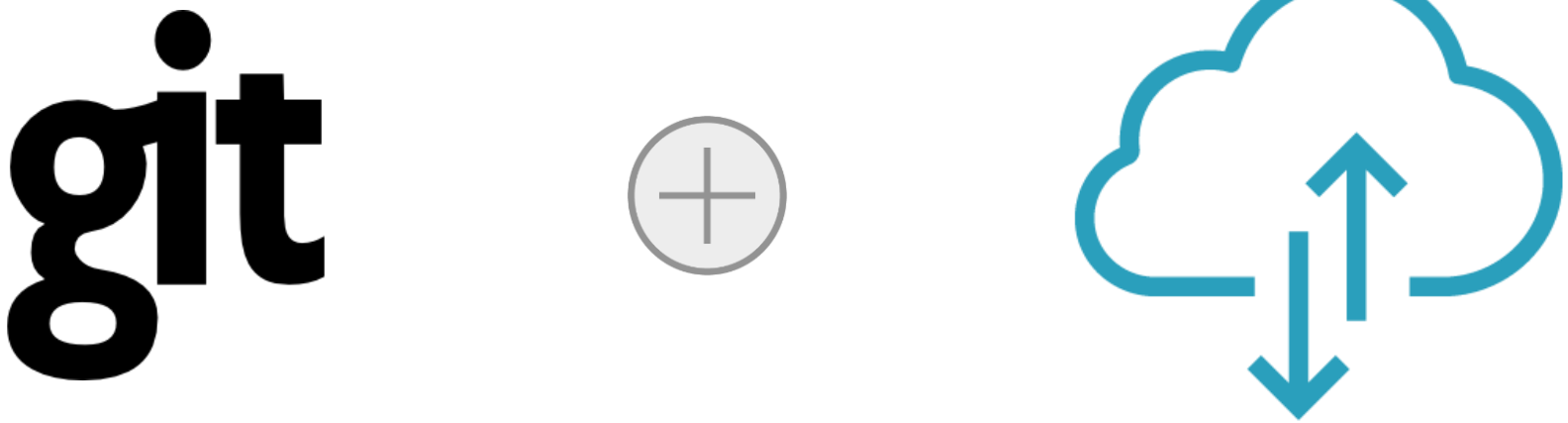
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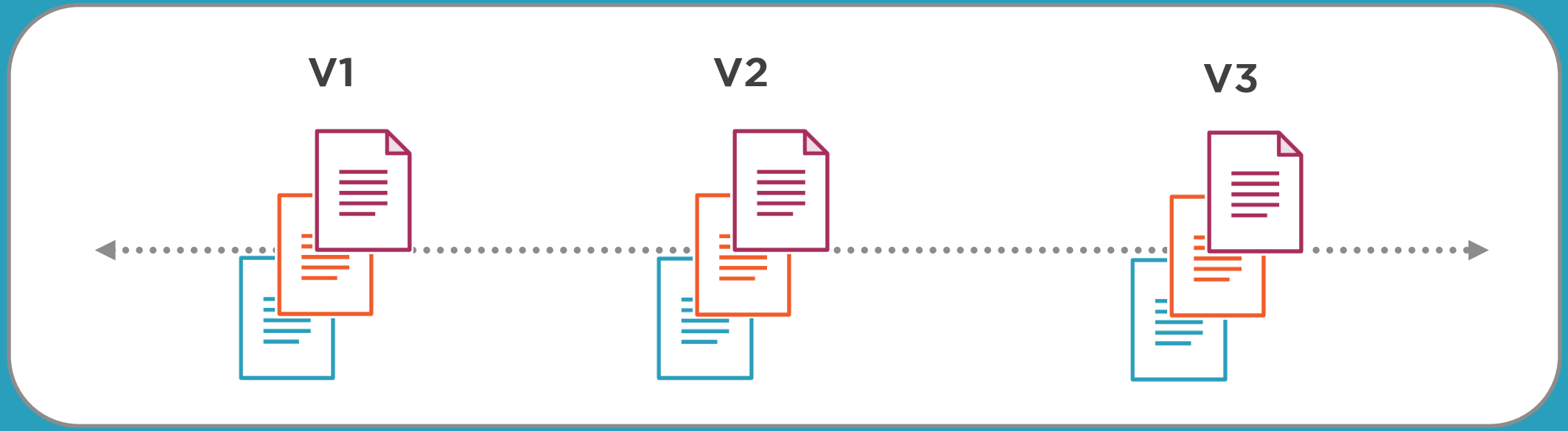
What is Git?

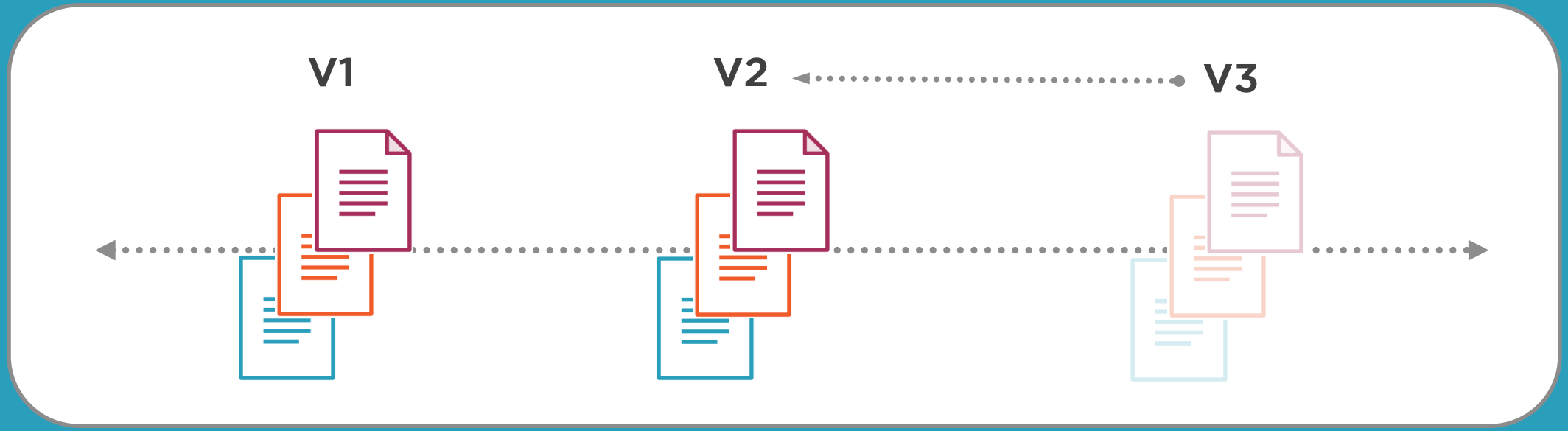
Version Control System



What is Git?

Version Control System

- Software designed to record changes made to files over time
- Ability to revert back to a previous file version or project version



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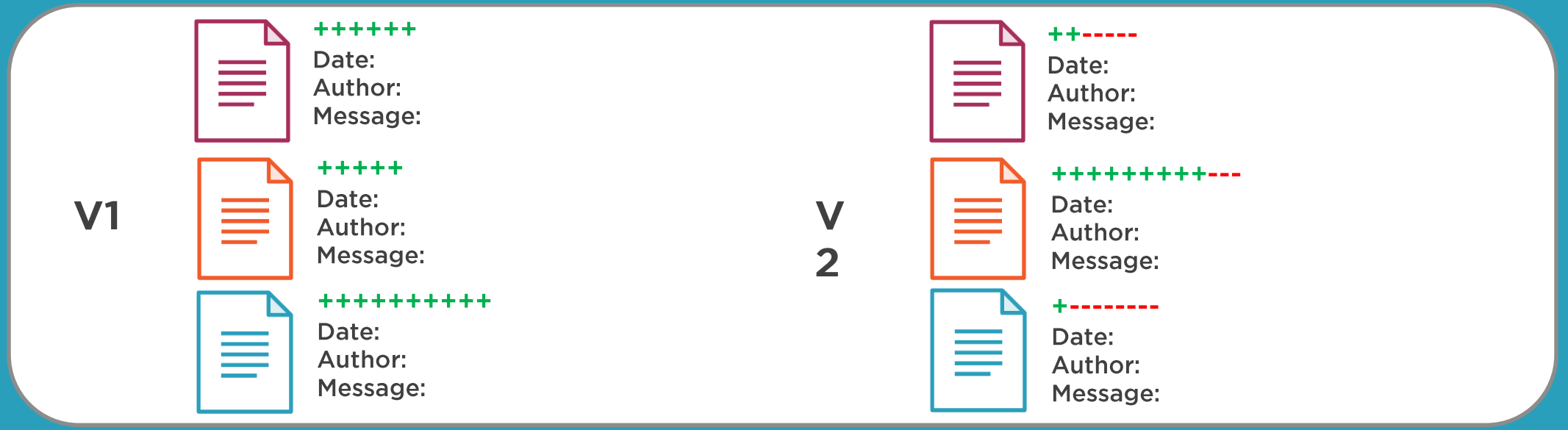
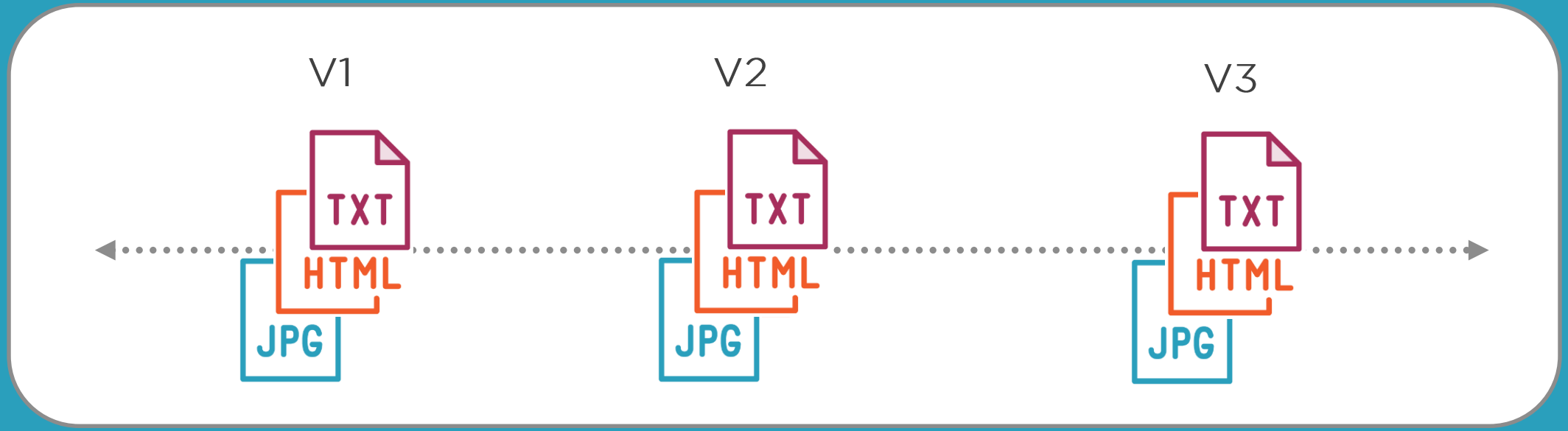


What is Git?

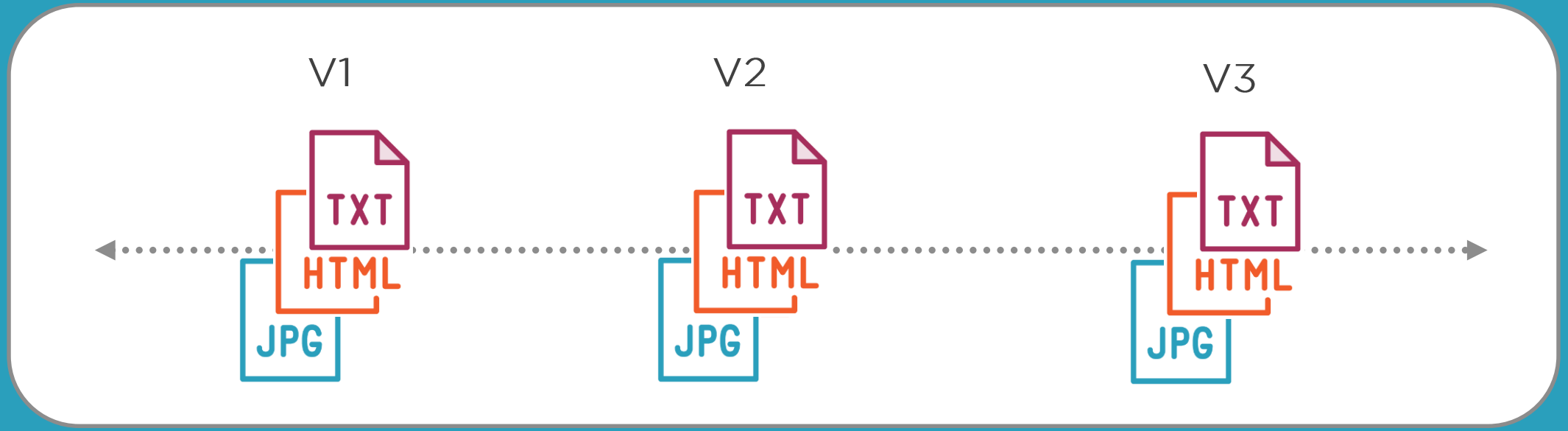
Version Control System

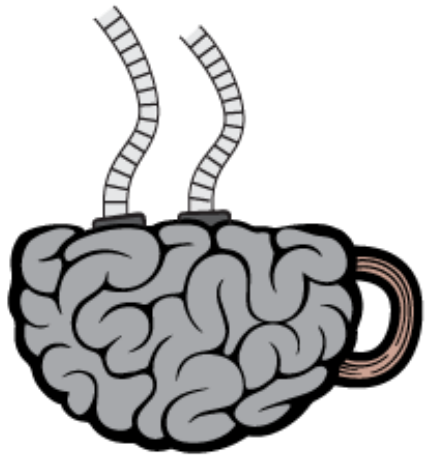
- Software designed to record changes made to files over time
- Ability to revert back to a previous file version or project version
- Compare changes made to files from one version to another
- Version control any plain text file, not just source code.



What is Git?

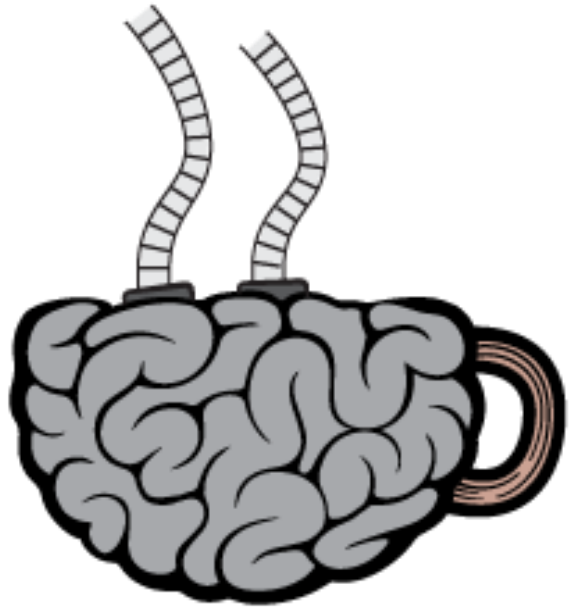
Version **C**ontrol **S**ystem =  + 





WIRED BRAIN

COFFEE



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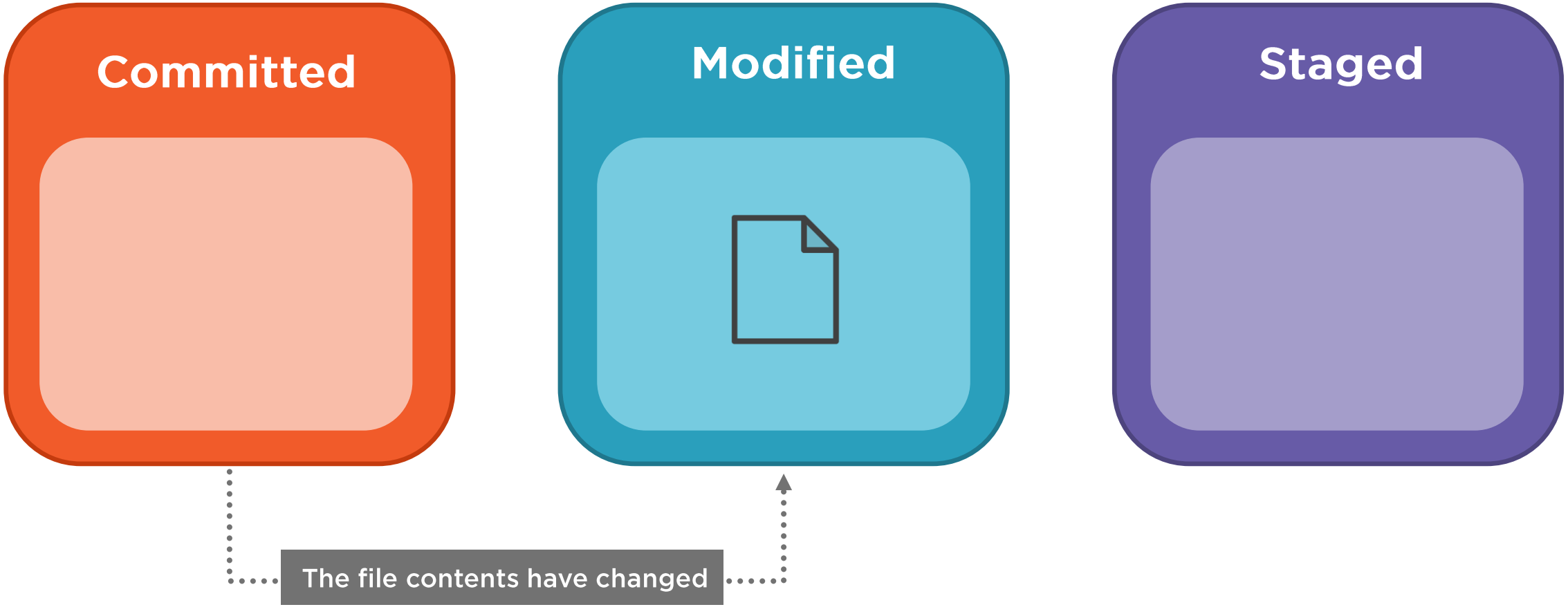
The Three Stages of a File



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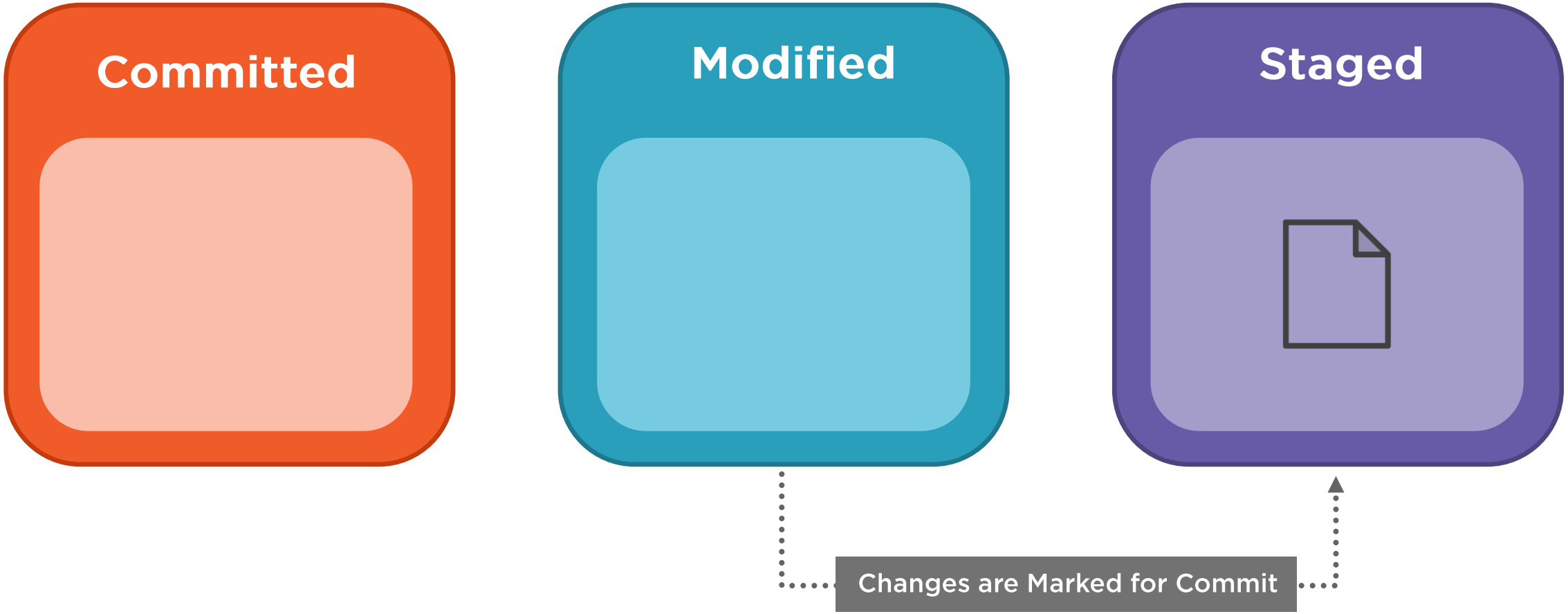

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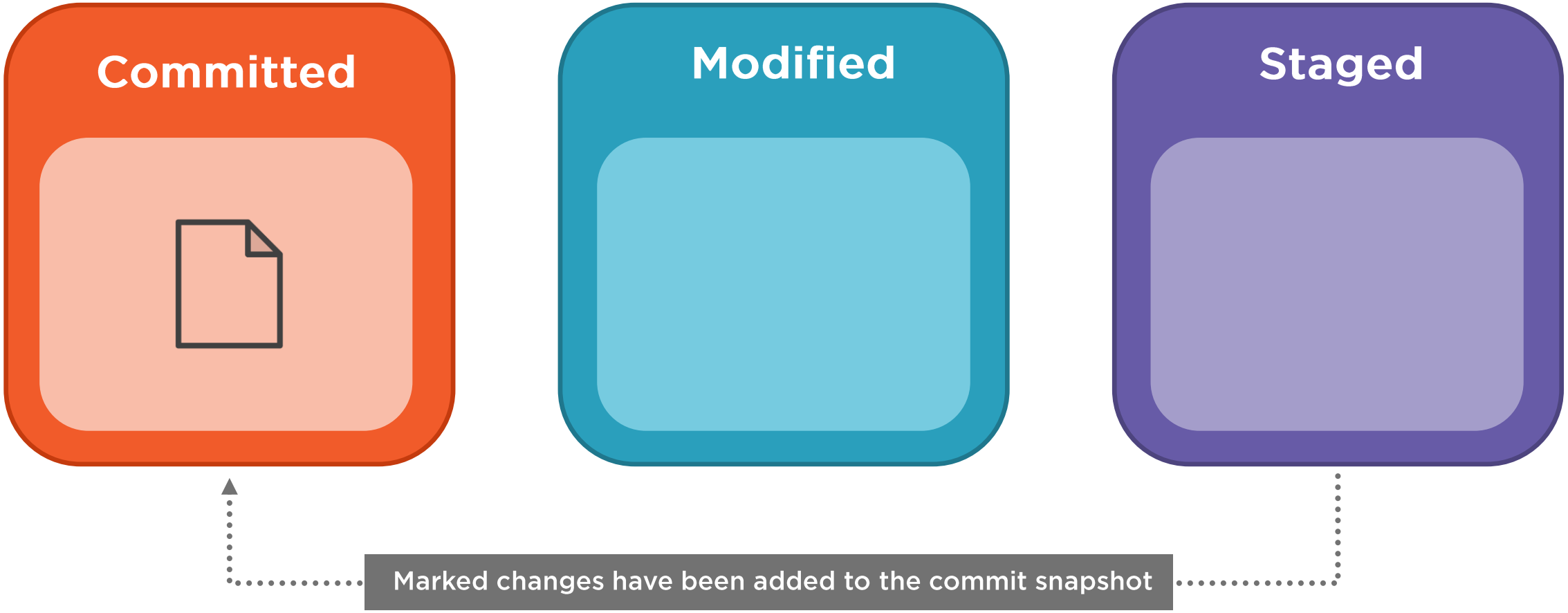
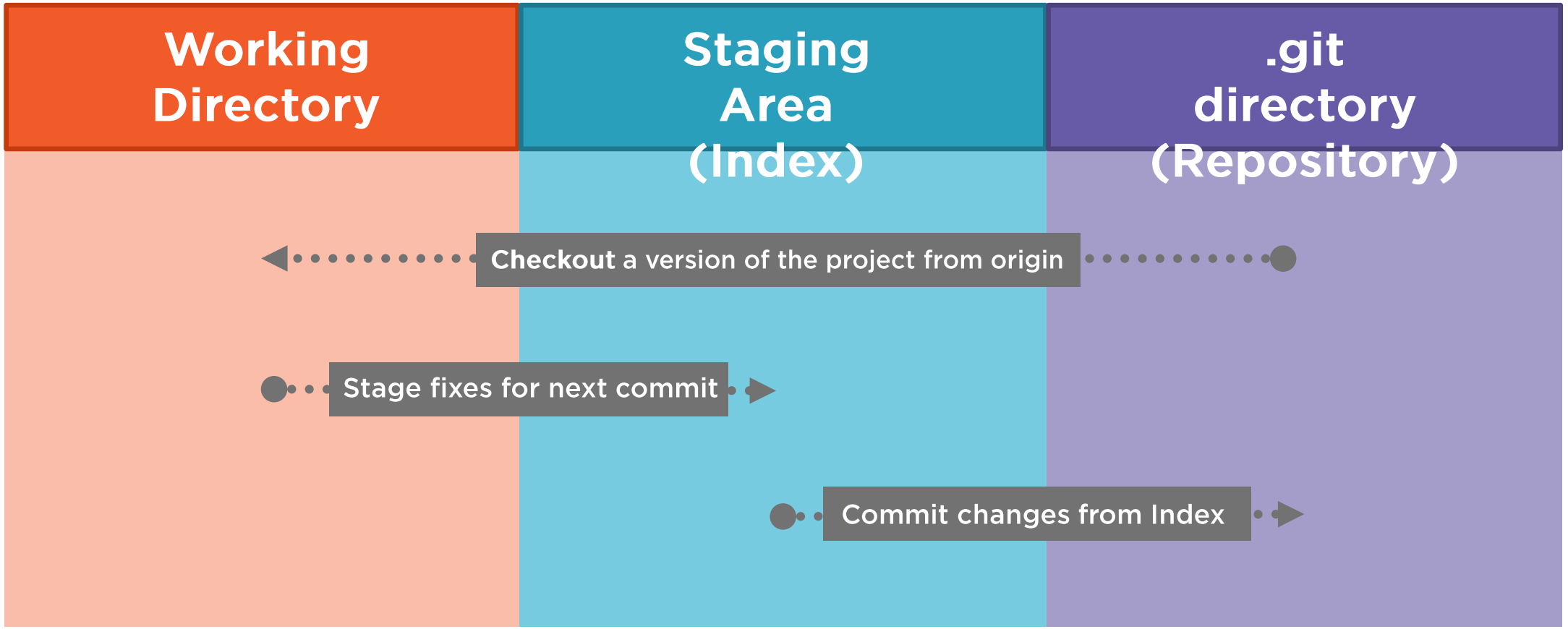
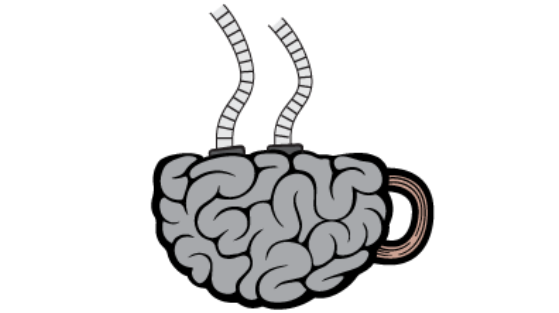


The Three States of a Git Project



The Three States of a Git Project

Working Directory	Staging Area (Index)	.git directory (Repository)
Changes to files since the last checkout have not yet been added to the staging area for commit	Files in this state have been modified and added to be staged in the next commit snapshot	Files in this state are committed and recorded to the project as version snapshots



- Install Git on Linux, Windows and Mac systems
- Configure Git
- Initialize a new Git project
- Code hosting providers
- Create an account
- Push our Git project to a code hosting provider

Using the Command Line

Run Commands

Type a specific command and then hit ENTER to execute

Windows

Command prompt or Powershell

Mac and Linux

Terminal

Using the Command Line

pwd	**Print working directory**
cd	**Change working directory (cd .. or cd ~)**
ls	**List files in a directory (dir for windows users)**
mkdir	**Create a new empty folder**

Using the Command Line

pwd	**Print working directory**
cd	**Change working directory (cd .. or cd ~)**
ls	**List files in a directory (dir for windows users)**
touch	**Create a new empty file (copy con for windows users)**

Install Git on Linux

Debian

sudo apt-get install git

Fedora

sudo yum install git

Install Git on Windows

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

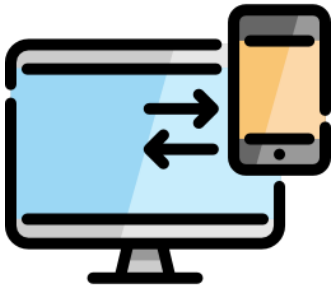
Install Git on Mac

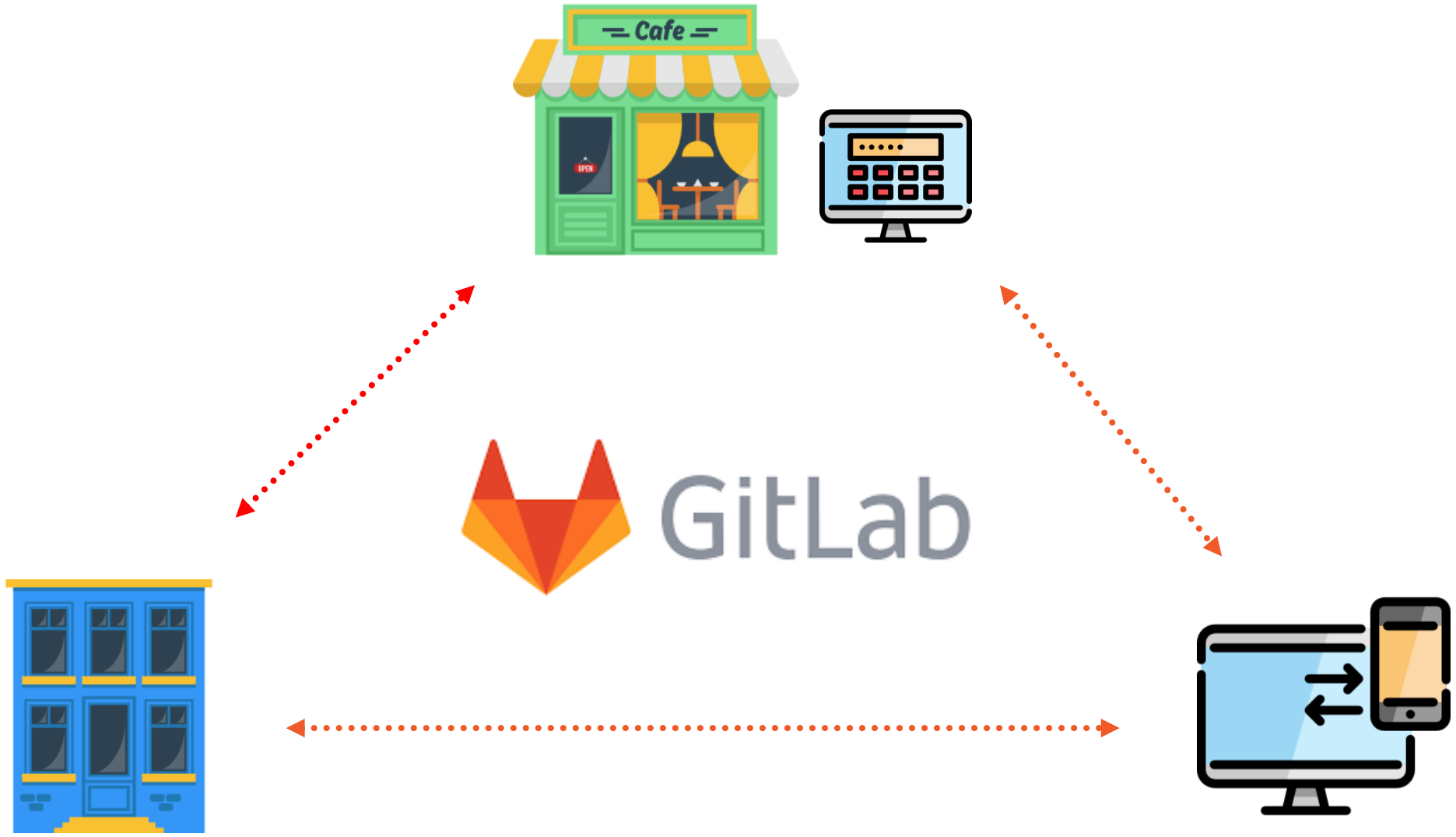
https://git-scm.com/download/mac

Homebrew

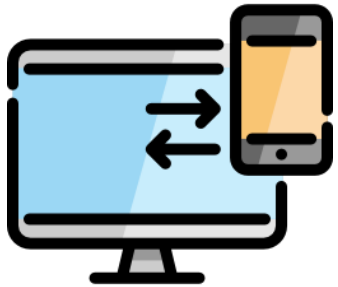
brew install git

GitHub




Cafe
GitLab

Bitbucket



Summary

- Install Git on Linux, Windows, and Mac
- Configure Git
- Initialize a Git repository
- Git helper guides
- Introduction to code hosting providers (GitHub, GitLab, Bitbucket, etc.)
- Push our local repository to a code hosting provider