

GitHub: Getting Started

AN OVERVIEW OF GIT AND GITHUB



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Overview



What's in this course for you?

Git and GitHub

Getting your machine ready

Foundations of Git



What's in This Course for You?



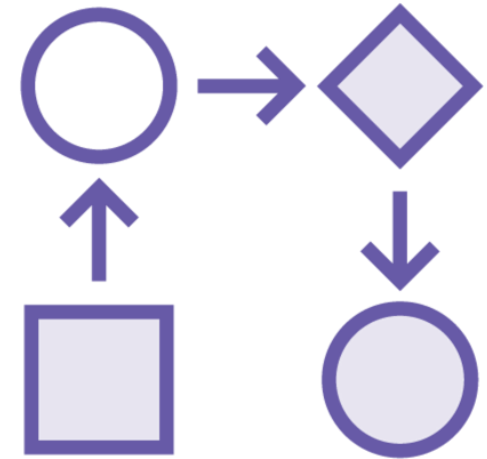
What's in This Course for You?



Concepts of Git



Understanding GitHub



Beyond the basics



Git and GitHub



What Is Git?



Popular source control system



Distributed system



Free and open-source



Why Use Git?

Fast

Disconnected

Powerful yet easy

Branching

Pull requests



But... Why Not Git?

Different

Learning curve

Tools

Binary files



What Is GitHub?



Hosting service based on Git



More than just source control for your code



Free and paid options





We'll start using
GitHub in the
next module!



Getting Your Machine Ready



Git Works Everywhere!

Windows

Mac

Linux





What you need

- Download Git from <https://git-scm.com/downloads>
- An editor
 - Visual Studio Code
- GitHub account



Demo



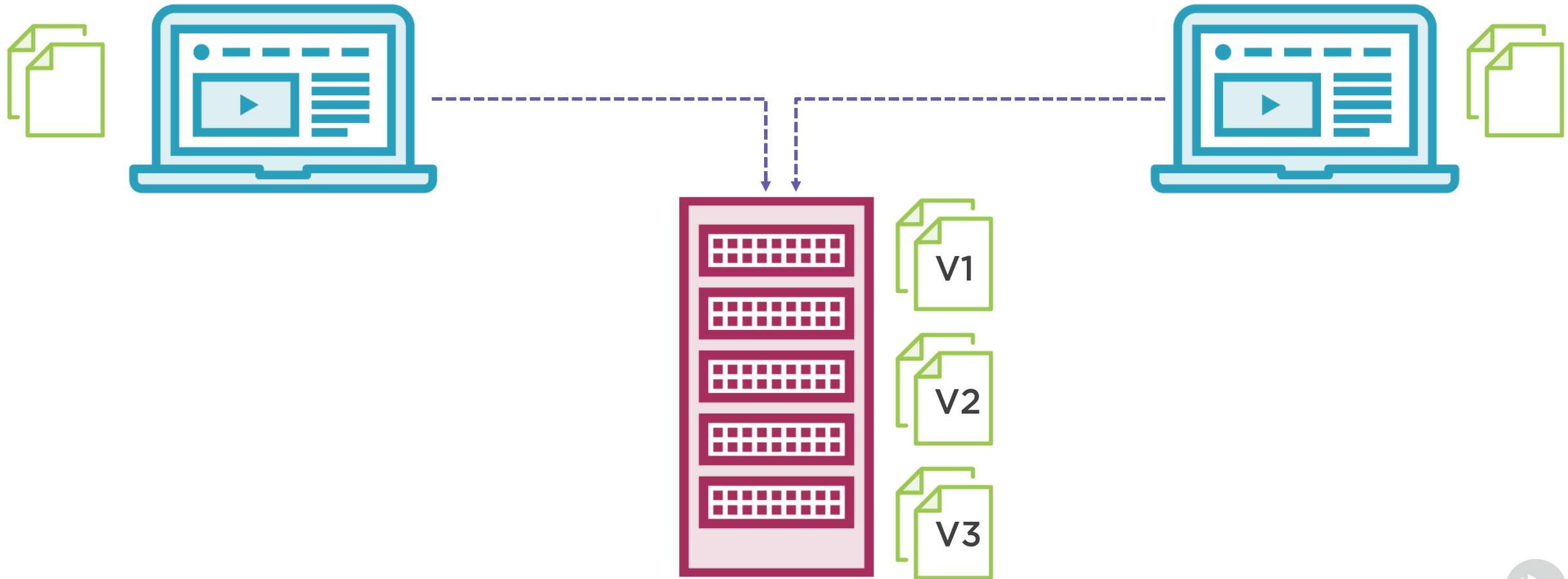
Setting up your environment



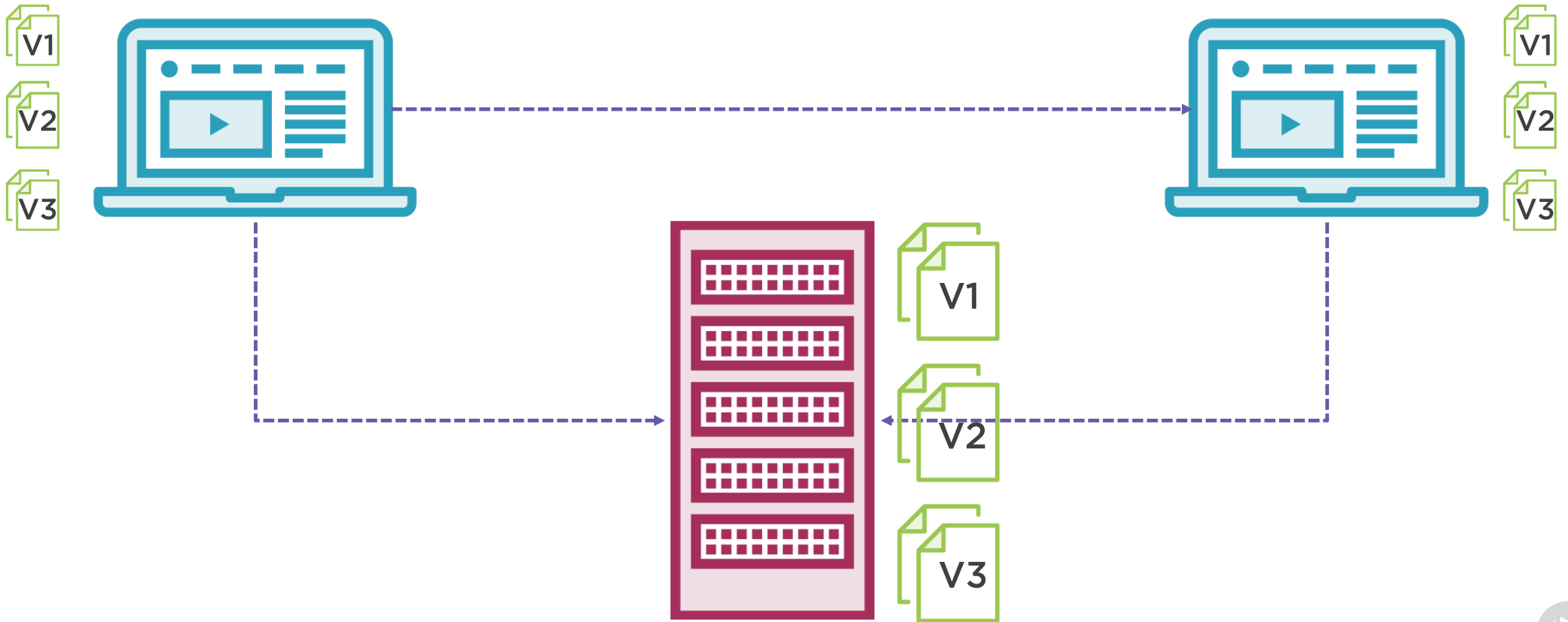
Foundations of Git



Centralized Source Code Management



Distributed Version Control



The 3 States of Git



Committed



Modified



Staged



The 3 Areas of Git



The diagram illustrates the three areas of Git. It consists of three rounded rectangular boxes arranged horizontally. The first box on the left is light purple with a dashed purple border and contains the text 'Working directory' in purple. The middle box is light green with a dashed green border and contains the text 'Staging area' in green. The third box on the right is light blue with a dashed purple border and contains the text '.git repo' in teal. The boxes are separated by white space.

Working
directory

Staging area

.git repo



Adding a Remote

Working
directory

Staging area

.git repo

Remote repo
GitHub



Working with Git



Console

We'll use the console in this course



GUI

GitHub Desktop
SourceTree



```
$ git
```

```
$ git config
```

```
$ git init
```

```
$ git clone
```

```
$ git add
```

```
$ git commit
```

◀ It all starts with “git”...

◀ Configure the tooling

◀ Initialize a git local repo

◀ Download a project from remote

◀ Prepare a file (to staging)

◀ Commit a file to the repo



Demo



Create a local repository

Add a file

Commit our changes



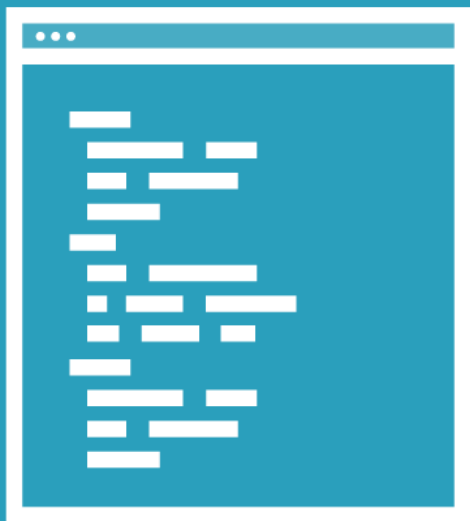
Summary



Git is a popular version control system

Command-line driven





Up next:
Getting started with GitHub

