Lecture-02

version control

WHAT IS GIT?

- Git is a 'distributed version control system' - eh?

- That basically means...

    - It's a system that records changes to our files over time

    - We can recall specific versions of those files at any given time

    - Many people can easily collaborate on a project and have their own version of project files on their computer

WHY USE GIT?

📁 Project X for client

PROJECT X

| Link 1 | Link 2 | Link 3 | Link 4 | Link 5 | Li |

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.

click me

random footer

WHY USE GIT?

📁 Project X for client

PROJECT X

| Link 1 | Link 2 | Link 3 | Link 4 | Link 5 | Lir |

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| Link 1 | Link 2 | Link 3 | Link 4 | Link 5 | Lir |

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WHY USE GIT?

📁 Project X for client

PROJECT X

Link 1

Link 2

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Link 4

Link 5

Link 6

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random footer

WHY USE GIT?

📁 Project X for client

WHY USE GIT?

Project X for client - v1

Project X for client - v2

Project X for client - v3

Project X for client - v4
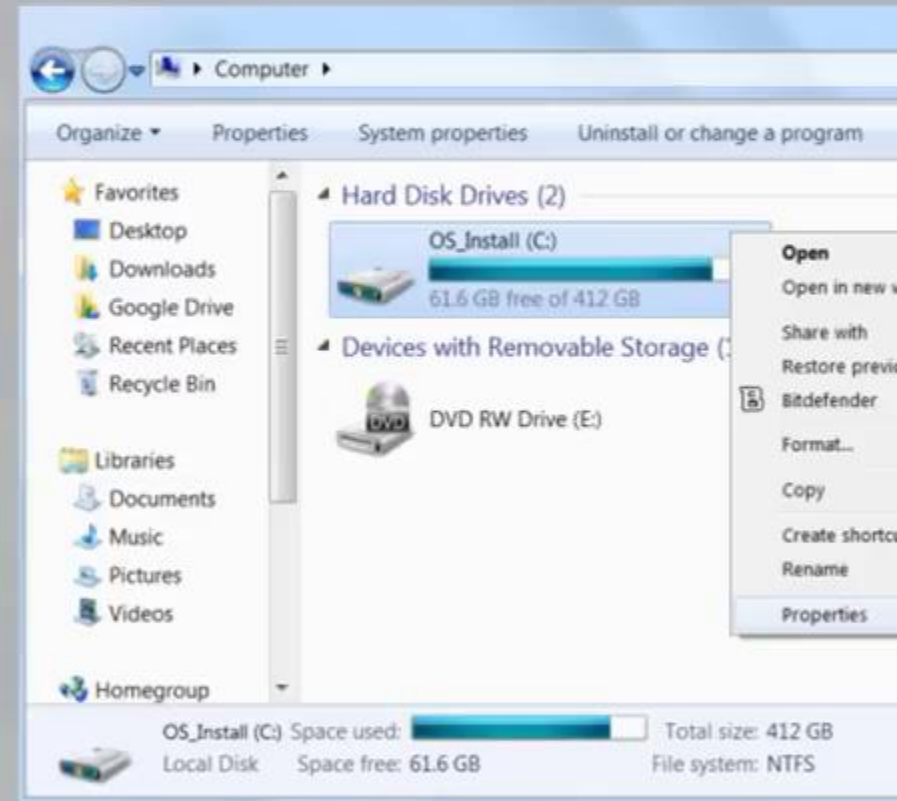
WHY USE GIT?

WHY USE GIT?

- Store revisions in a project history in just one directory

- Rewind to any revision in the project I wanted to

- Work on new features without messing up the main codebase

- Easily collaborate with other programmers

GITHUB

- Online service that hosts our projects

- Share our code with other developers

- Developers can download the projects and work on them

- They can re-upload their edits and merge them with the main codebase

Secure | https://atom.io

⚛ ATOM

A hackable text editor
for the 21st Century

▶

⬇ **Download Windows 64-bit Installer**

For Windows 7 64-bit or later. Other platforms - Beta
releases

	atom.coffee	✕ Settings

```
18
19   # Essential: Atom global for dealing with packages, themes, menus, and the wi
20   #
21   # An instance of this class is always available as the `atom` global.
22   module.exports =
23   class Atom extends Model
24     @version: 1  # Increment this when the serialization format changes
25
26     # Load or create the Atom environment in the given mode.
27     #
28     # Returns an Atom instance, fully initialized.
29     @loadOrCreate: (mode) ->
30       startTime = Date.now()
31       atom = @deserialize(@loadState(mode)) ? new this({mode, @version})
```

> 📁 build
> 📁 docs
> 📁 dot-atom
> 📁 exports
> 📁 keymaps
> 📁 menus
> 📁 node_modules
> 📁 resources
> 📁 script
> 📁 spec
> 📁 src
> 📁 static
> 📁 vendor

⊞   Type here to search

Secure | https://git-scm.com/downloads

git --distributed-even-if-your-workflow-isnt

🔍 Search entire site...

About

Documentation

Blog

Downloads

GUI Clients

Logos

Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on Amazon.com.

Downloads

 Mac OS X   Windows

 Linux   Solaris

Older releases are available and the Git source repository is on GitHub.

Latest source Release
2.13.0
Release Notes (2017-05-09)

Downloads for Windows

GUI Clients

Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.
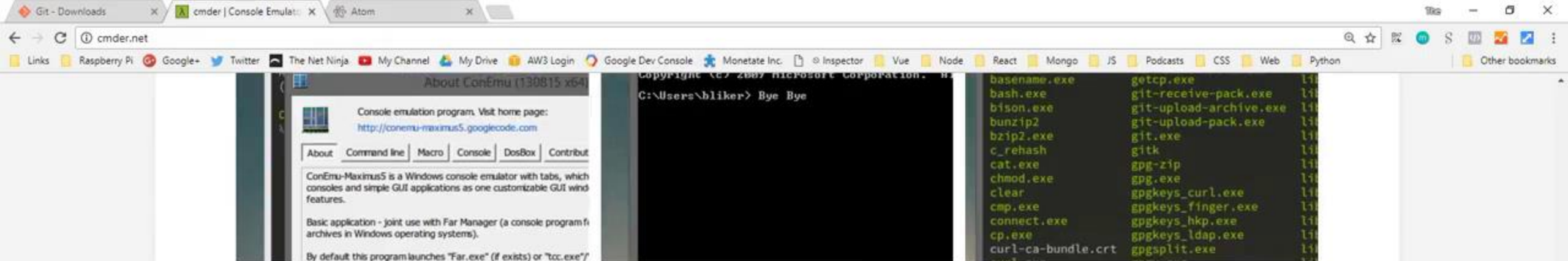
View GUI Clients →

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

View Logos →

Git via Git

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

Type here to search

ⓘ cmder.net

With help of the best

Think about cmder more as a software package than a separate app. All the magic is happening through Conemu. With enhancements from Clink.

Total portability

Carry it with you on a USB stick or in the Cloud, so your settings, aliases and history can go anywhere you go. You will not see that ugly Windows prompt ever again.

Git and others

Oooh yes! If you decide to use the *slightly* bigger git-for-windows version, you will have all Unix commands ready in PATH so that you can `git init` or `cat` instantly on every machine.

Download

GitHub Repo (for issues/requests/source)

Download mini	Download full
6MB	(With git-for-windows) 84MB 42MB 7z

Installation

1. Unzip (can take a while)
2. (optional) Place your own executable files into the `bin` folder to be injected into

REPOSITORIES (REPO'S)

A repo is a container for a project you want to track with Git (e.g. a website project)

Can have many different repo's for many different projects on your computer

Like a project folder which Git tracks the contents of for us

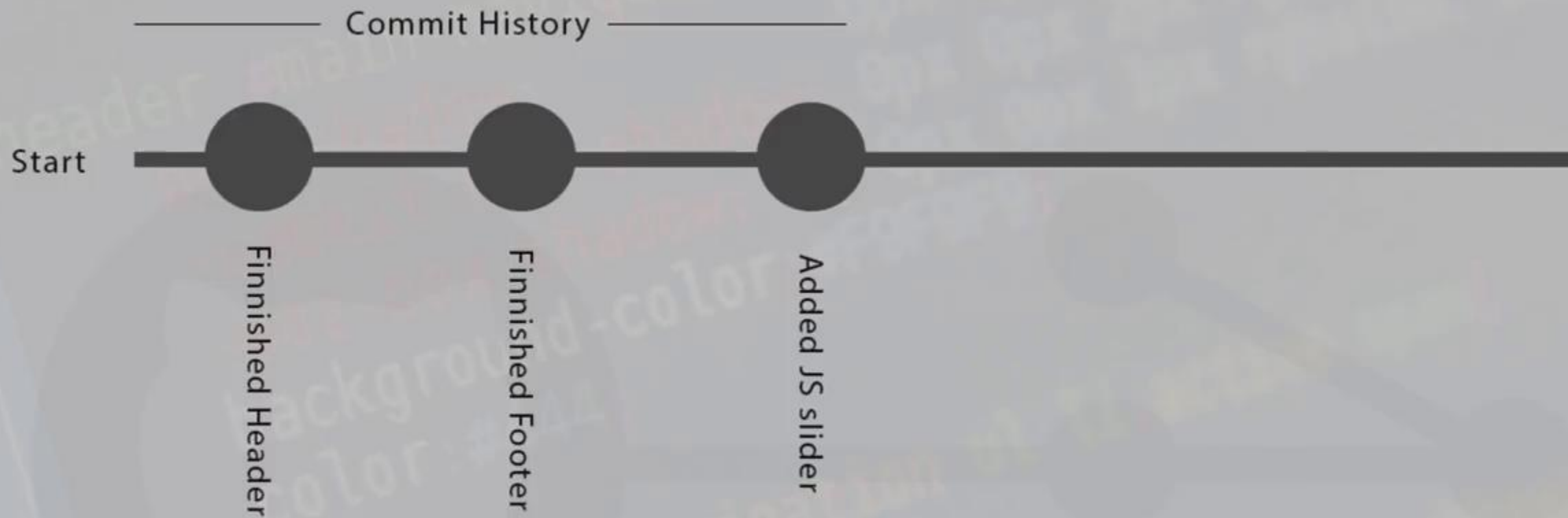# REPOSITORIES (REPO'S)

📁 My Project

| -- .git

| -- index.html

| -- style.css

| -- 📁 img

    | -- logo.png

    | -- crazy_cat.jpg

COMMITS
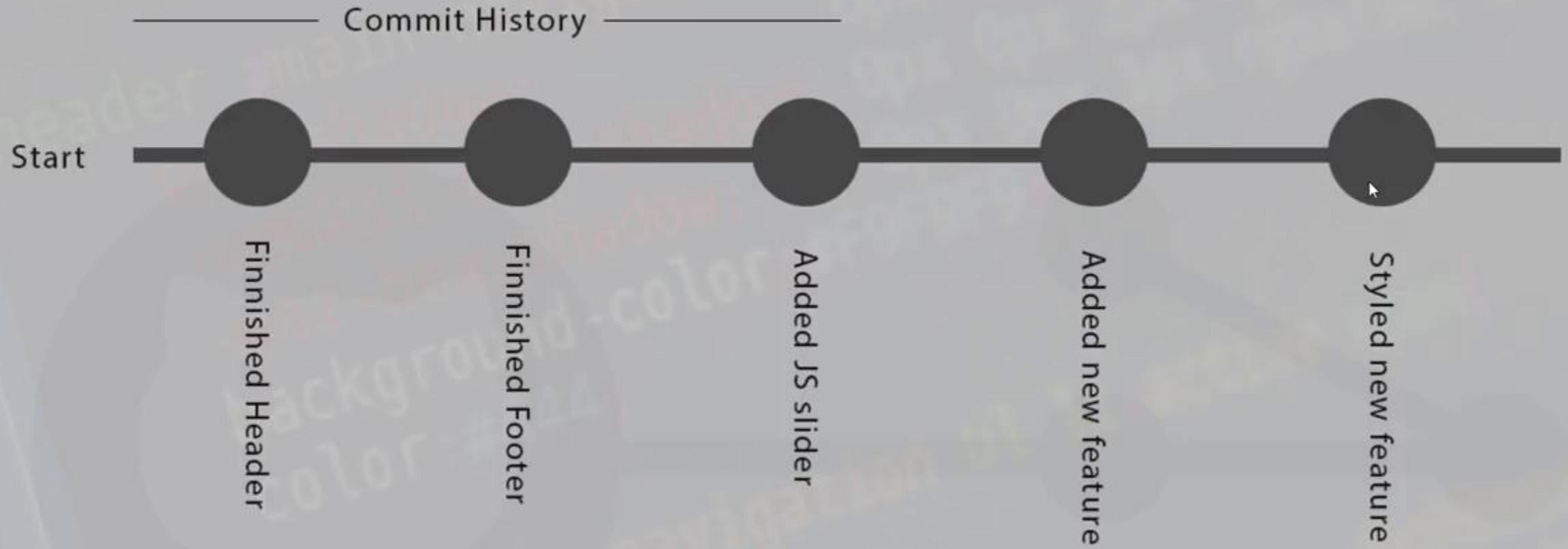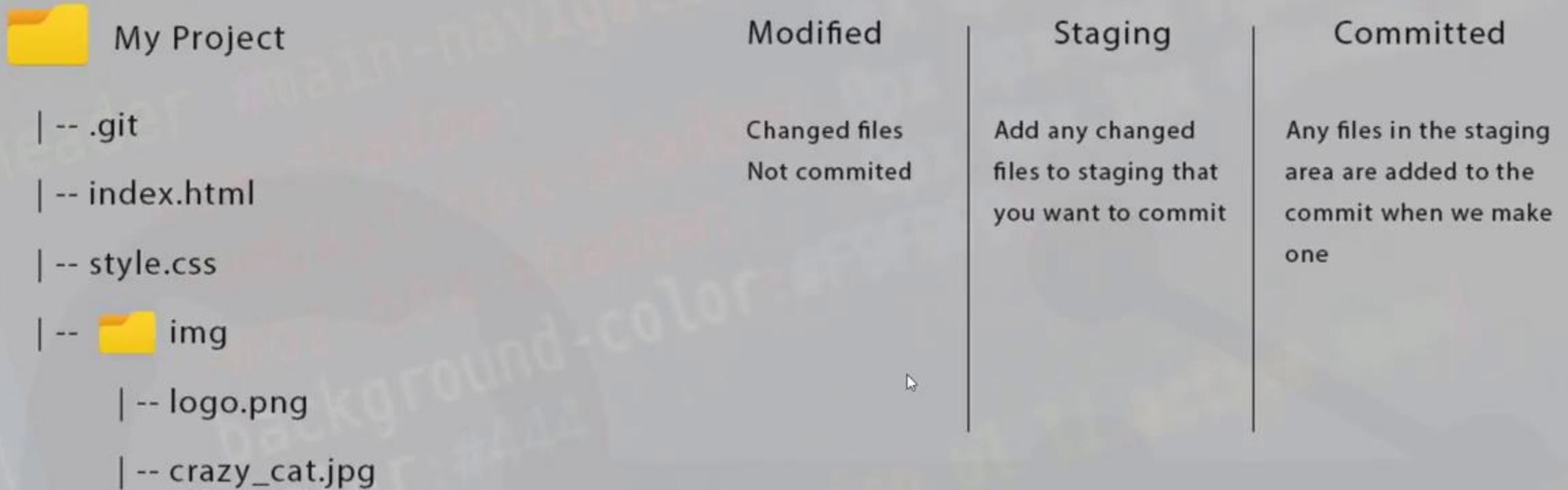
📁 **My Project**

| -- .git

| -- index.html

| -- style.css

| -- 📁 img

   | -- logo.png

   | -- crazy_cat.jpg

Modified

Changed files
Not commited

Staging

Add any changed
files to staging that
you want to commit

Committed

Any files in the staging
area are added to the
commit when we make
one

STAGING FILES

📁 My Project   Modified | Staging | Committed

| -- .git   index.html ────────→

| -- **index.html**

| -- style.css

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STAGING FILES

📁 My Project

| -- .git

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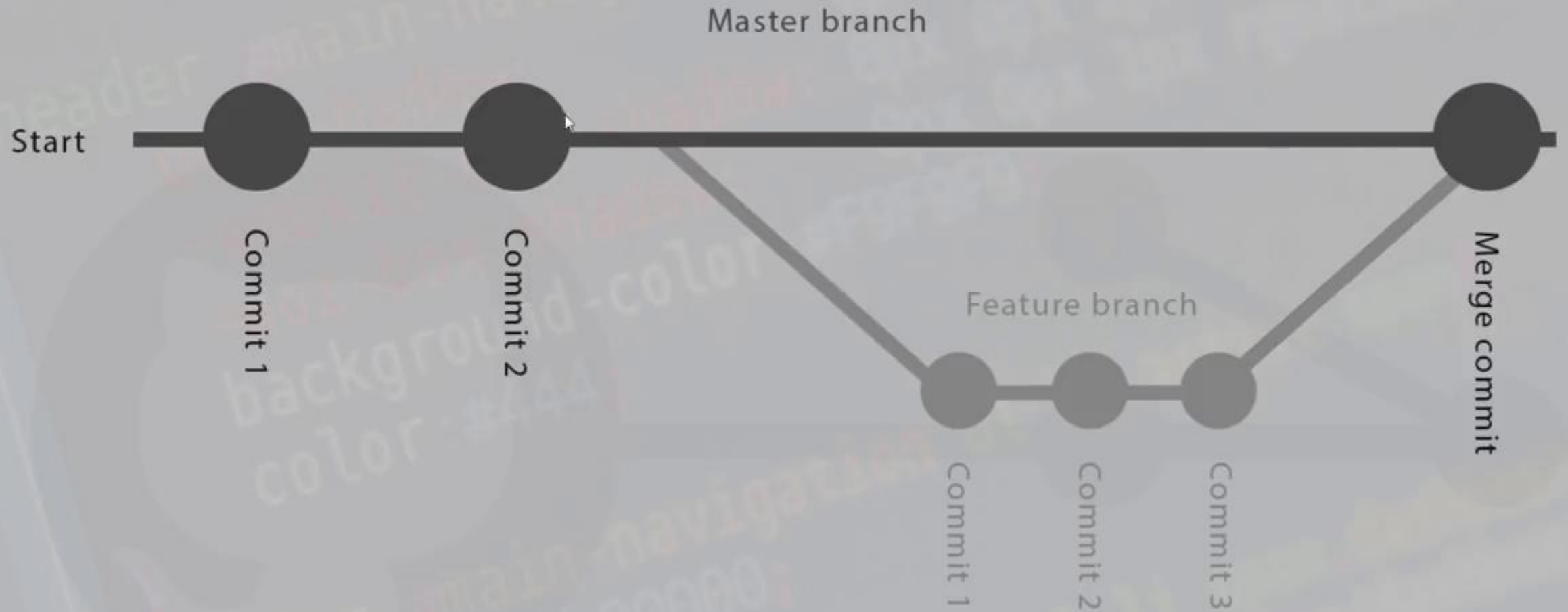| Modified	Staging	Committed
index.html ⟶	index.html ⟶	
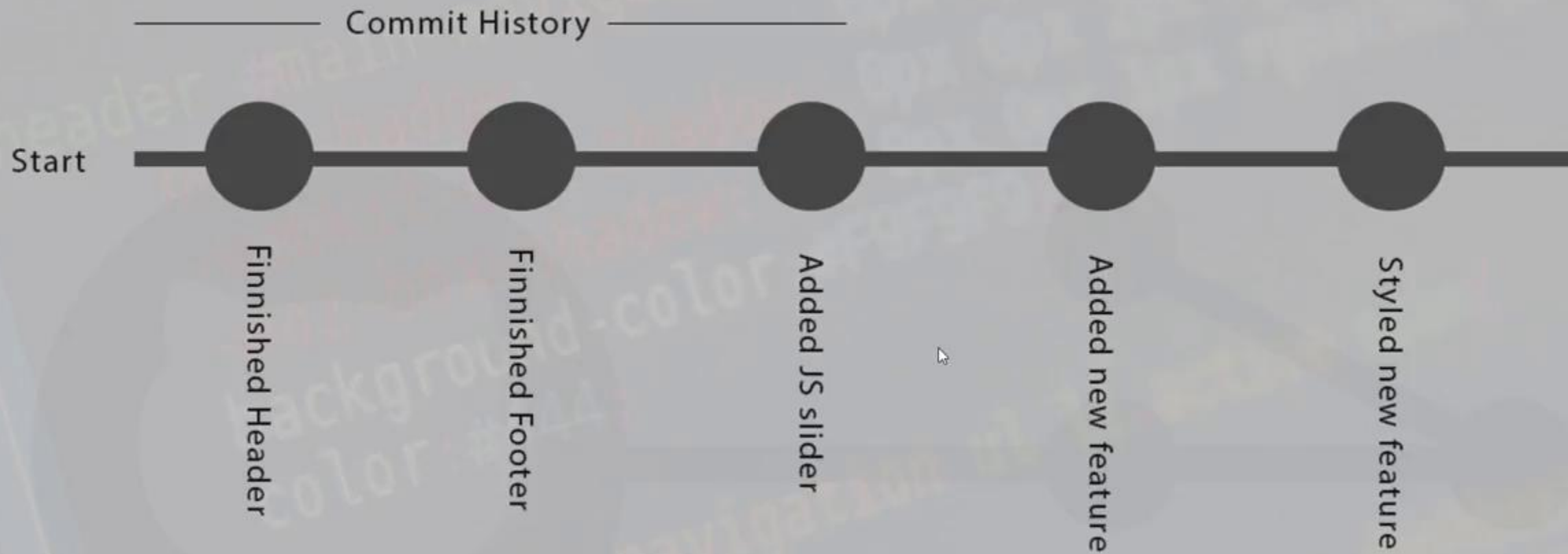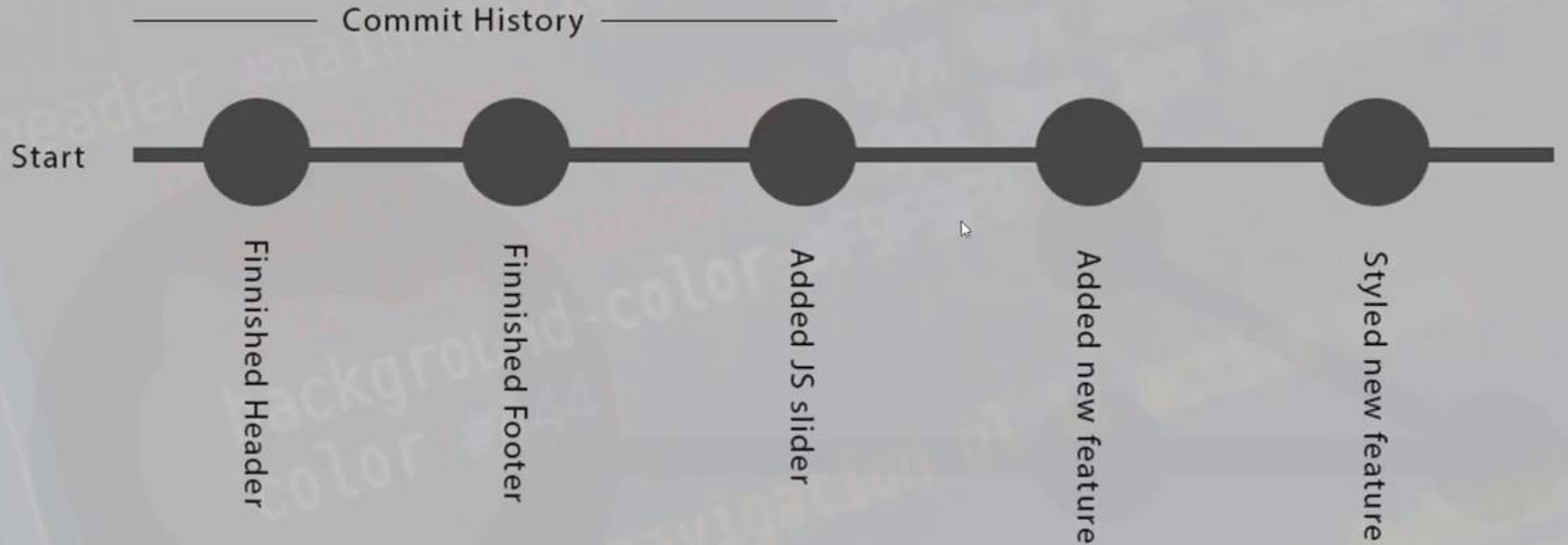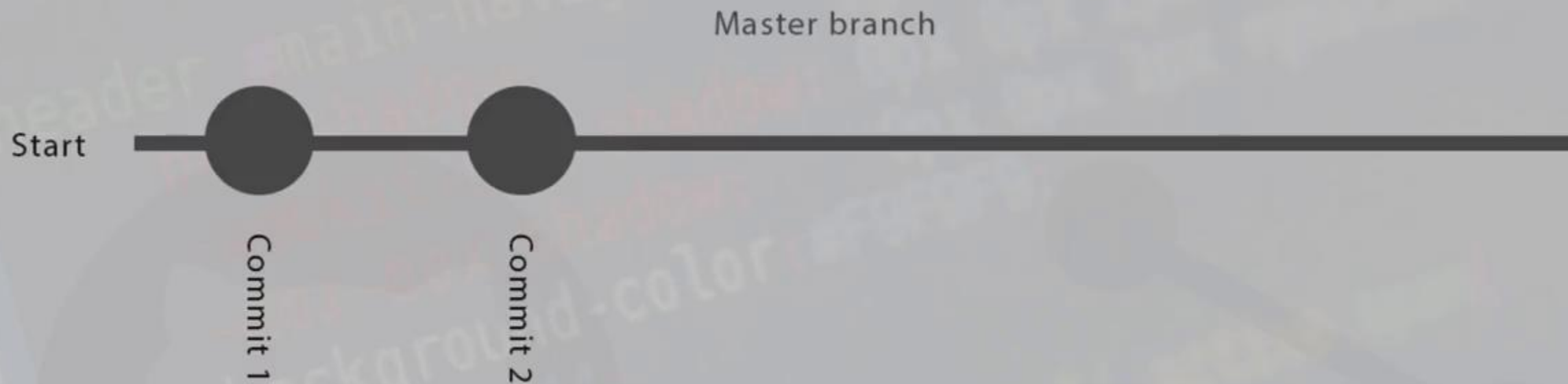
BRANCHES

BRANCHES
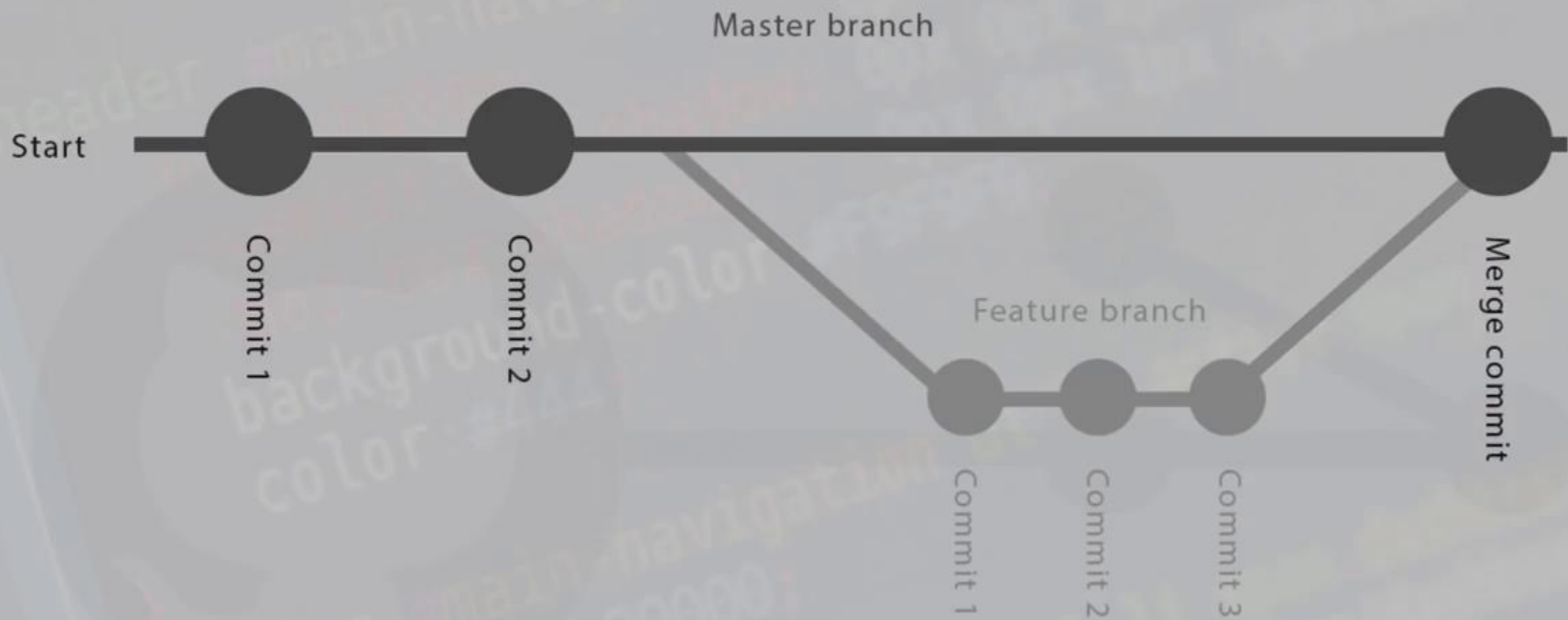
GITHUB

- GitHub is a service that lets us set up hosted repositories

- Central online repository which multiple team-members could access

Hosted Repo

GitHub

Features   Business   Explore   Marketplace   Pricing

Search GitHub   Sign in or Sign up

Built for developers

GitHub is a development platform inspired by the way you work. From **open source** to **business**, you can host and review code, manage projects, and build software alongside millions of other developers.

Username

Pick a username

Email

Your email address

Password

Create a password

Use at least one letter, one numeral, and seven characters.

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our terms of service and privacy policy. We'll occasionally send you account related emails.

Type here to search   16:32   24/05/2017

The world's leading soft   ✕   Your Repositories   ✕

🔍 GitHub, Inc. [US] | https://github.com/iamshaunjp?tab=repositories

Links   Raspberry Pi   Google+   Twitter   The Net Ninja   My Channel   My Drive   AW3 Login   Google Dev Console   Monetate Inc.   Inspector   Vue   Node   React   Mongo   JS   Podcasts   CSS   Web   Other bookmarks

Search GitHub   Pull requests   Issues   Marketplace   Gist

Overview   Repositories 25   Stars 0   Followers 709   Following 0

Search repositories...   Type: All ▾   Language: All ▾   📖 New

Shaun
iamshaunjp

Island-hopping, banjo-playing, website-coding ninja :)

📍 United Kingdom
🔗 http://www.thenetninja.co.uk

rest-api-playlist

Course files for the REST API tutorial series on The Net Ninja Youtube channel

⭐ 18   ⑂ 12   Updated 4 days ago

The-Net-Ninja-Website-2.0   Private

Code base for the Net Ninja website 2.0

🟡 JavaScript   Updated 6 days ago

websockets-playlist

All the course files for the WebSockets playlist on The Net Ninja YouTube channel.

Updated 21 days ago

the-net-ninja-vue   Private

The official repository for The Net Ninja 3.0 code base, built with Vue.js

⚫ Vue   Updated 23 days ago

Type here to search

Search GitHub   Pull requests   Issues   Marketplace   Gist

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner   Repository name

iamshaunjp ▾   /

Great repository names are short and memorable. Need inspiration? How about **vigilant-lamp**.

Description (optional)

○ **Public**
Anyone can see this repository. You choose who can commit.

○ **Private**
You choose who can see and commit to this repository.

☐ **Initialize this repository with a README**
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▾   Add a license: **None** ▾   ⓘ

Create repository

GitHub, Inc. [US] https://github.com/new

Search GitHub

Pull requests   Issues   Marketplace   Gist

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iamshaunjp ▾ / git-one ✓

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.gitignore ✕

node

Node

Type here to search

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[iamshaunjp ▾] / [git-one   ✓]

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[Create repository]

GitHub, Inc. [US] | https://github.com/iamshaunjp/git-one

This repository | Search

Pull requests   Issues   Marketplace   Gist

iamshaunjp / git-one

Unwatch ▾   1   ★ Star   0   Fork   0

◇ Code   ⓘ Issues 0   ⊓ Pull requests 0   ▤ Projects 0   ▦ Wiki   ⚙ Settings   Insights ▾

Quick setup — if you've done this kind of thing before

⤓ Set up in Desktop   or   HTTPS   SSH   https://github.com/iamshaunjp/git-one.git

We recommend every repository include a **README**, **LICENSE**, and **.gitignore**.

...or create a new repository on the command line

```
echo "# git-one" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/iamshaunjp/git-one.git
git push -u origin master
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/iamshaunjp/git-one.git
git push -u origin master
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

This repository   Search   Pull requests   Issues   Marketplace   Gist

🗗 **iamshaunjp** / **git-one**

👁 Unwatch ▾   1   ⭐ Star   0   🍴 Fork   0

`<>` Code   ⓘ Issues 0   🔀 Pull requests 0   ▥ Projects 0   Wiki   ⚙ Settings   Insights ▾

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Type here to search   ENG   16:37   24/05/2017

iamshaunjp / **git-one**

👁 Unwatch ▾ 1   ★ Star 0   ⑂ Fork 0

‹› Code   ⓘ Issues 0   Pull requests 0   Projects 0   Wiki   ⚙ Settings   Insights ▾

Branch: **master** ▾

○ Commits on May 24, 2017

Merge branch 'feature-c'
iamshaunjp committed 6 hours ago   f028219   ‹›

added padding
iamshaunjp committed 6 hours ago   19bc3bc   ‹›

added margin to body selector
iamshaunjp committed 6 hours ago   89e1a69   ‹›

Merge branch 'feature-b'
iamshaunjp committed 6 hours ago   83dbceb   ‹›

○ Commits on May 23, 2017

added feature b file
iamshaunjp committed a day ago   15fa9f8   ‹›

added feature a file
iamshaunjp committed a day ago   e301c48   ‹›

added index title
iamshaunjp committed a day ago   8caa62a   ‹›

○ Commits on May 22, 2017

added index and styles files
iamshaunjp committed 2 days ago   4a8a0c0   ‹›

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GitHub, Inc. [US] https://github.com/iamshaunjp/git-one

Links   Raspberry Pi   Google+   Twitter   The Net Ninja   My Channel   My Drive   AW3 Login   Google Dev Console   Monetate Inc.   Inspector   Vue   Node   React   Mongo   JS   Podcasts   CSS   Web   Other bookmarks

This repository   Search   Pull requests   Issues   Marketplace   Gist

iamshaunjp / git-one

Unwatch ▾   1   ★ Star   0   ⑂ Fork   0

‹› Code   ⓘ Issues 0   ⑂ Pull requests 0   ▦ Projects 0   ▱ Wiki   ⚙ Settings   Insights ▾

No description, website, or topics provided.   Edit

Add topics

⊙ 8 commits   ⑂ 1 branch   ⬙ 0 releases   ⚇ 1 contributor

Branch: master ▾   New pull request   Create new file   Upload files   Find file   Clone or download ▾

iamshaunjp Merge branch 'feature-c'   Latest commit f028219 6 hours ago

feature-a.js	added feature a file	a day ago
feature-b.js	added feature b file	a day ago
index.html	added index title	a day ago
styles.css	Merge branch 'feature-c'	6 hours ago

Help people interested in this repository understand your project by adding a README.   Add a README

Type here to search

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