

# Git Going With Git

Git overview presentation for Data  
Fridays

<https://gitgoingwithgit.com/>

- Data Friday
- October 15, 2021

# What is Git?

“ Git is software for tracking changes in any set of files, usually used for coordinating work among programmers collaboratively...  
-- Wikipedia ”

- A file structure for logging the history of a software project
- A set of tools for maintaining said file structure

Clone the repository for this presentation:

```
git clone https://github.com/Git-Going-With-Git/Data-Fridays-Presentation
```

# Terminology

- repository
- commit
- diff
- branch
- remote
- conflict
- merge

# Git Remotes

- GitHub
- GitLab
- BitBucket

**Note:** Using *markdown* together with git is common and encouraged.

# Markdown

```
# Git Going With Git
```

```
## Overview
```

- \* point 1
- \* point 2
- \* point 3

```
## Resources
```

- \* resource 1
- \* resource 2
- \* resource 3

# Installation

## Installing git

Installation of git may vary depending on the operating system.

Download `git` from [git-scm.com](https://git-scm.com)

# Configuration

On first use, git should be configured.

Your local git installation should also be configured to authenticate to a remote such as GitHub. This requires the creation of a GitHub *personal access token*.

# Local Configuration

After installing git, we must set our name and email:

```
git config --global user.name "SpongeBob Squarepants"  
git config --global user.email "spongebob@squarepants.com"
```

Verify this was saved by listing the global configuration:

```
git config -l
```



# GitHub Configuring

To `clone` a repository or `pull` changes from GitHub, you must authenticate first. In GitHub, go to *settings* and

1. choose *Developer settings*
2. choose *Personal access tokens*
3. *Generate new token* and choose name (ie *Laptop*)
4. choose an *expiration*
5. copy the generated token. It will **not** be available again.

## Connect git to GitHub

The first time `clone`ing a project from GitHub, you will be prompted for a *username* and a *password*. This is misleading as GitHub now requires the personal access token to be used as the password.

Clone this presentation's repository with

```
git clone https://github.com/Git-Going-With-Git/Data-Fridays-Presentation
```

and enter your *personal access token* when prompted for password.

# GUI Clients

Git GUI clients are graphical applications to make working with git easier.

Some popular ones can be found in [Git SCM's GUIs](#)

# Resources

## Interactive Learning

- [Learn Git Branching](#)
- [Git Kata](#)
- [GitHub Learning](#)

## Books

- [Pro Git](#)

## Cheat Sheets

- [Interactive Cheat Sheet](#)
- [GitHub Markdown Cheatsheet.](#)
- [GitHub Git Cheat Sheet](#)

## General

- [GitLab Training](#)
- [Official Documentation](#)
- [Command list](#)