# Introduction

* What is Git?
* Why should we use it?
* What can we use it for?
* What does Git have to do with DevOps?
* What does Git have to do with EMC?

# Using Git

## Clone a Repository

1. Download and Install Git

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

1. Confirm Git is installed and working

git --version

1. Clone the Git repository that contains the schedule and lab guides

git clone <https://github.com/MattR69/edot.git>

*Note: This will create a folder in the current working directory.*

1. Open the class schedule

## Initialize a Repository

1. Create an empty repository on Github (https://github.com/) but do not initialize it

*For example: https://github.com/MattR69/helloworld.git*

1. Initialize the repository on your local device

c:

mkdir \helloworld

cd \helloworld

git init

1. Review the hidden .git folder but do not make any changes
2. Remember to execute all Git commands from the Git folder created in this step

## Add a remote repository

1. Add a remote repository

git remote add origin <https://github.com/MattR69/helloworld.git>

## Add to a Repository

1. Create some content and add the file to the Git repository

echo "Matt Rains" >> contributors.txt

git add contributors.txt

1. Check the status of the repository

git status

## Create an Ignore List

1. Create an ignore list and add a file to it

echo dummy.txt >> .gitignore

git add .gitignore

1. Check if the ignore list is working

echo > dummy.txt

git status

## Commit and Push to a Repository

1. Commit the changes we’ve made and push the repository

git commit -m “Initial commit”

git push -u origin master

1. Check the status of the repository

git status

## Fetch and Pull Changes to a Repository

1. Manually add a file to the repository using the GitHub web site
2. Check the status of the repository and fetch updates

git status

git fetch

1. Check the status of the repository and pull updates

git status

git pull

1. Check the status of the repository

git status

## Clean Up Repository

1. Remove the test file from the repository

del test

git commit –a –m “Delete test file”

git push -u origin master

## Further Reading

Interactive Git Tutorial

<https://try.github.io/>

GitHub Desktop GUI

https://desktop.github.com/