GIT & GITHUB

FOR BEGINNERS AND BEYOND!

federico.moreira@globant.com

WHAT YOU WILL LEARN

WE WILL COVER THE BASIC FUNCTIONALITY OF BOTH TOOLS SO YOU CAN START CODING AND SHARING YOUR IDEAS IN NO-TIME!

UNDERSTAND HOW GIT AND GITHUB WORK

CREATE YOUR FIRST COMMIT

SHARE YOUR CODE WITH OTHERS!

WHAT IS GIT?

- Distributed version control system
- Started in 2005 by Linus Torvalds
- Allows for collaborative development
- Used worldwide by several companies and software development projects.
- One of the few tools you will never complain about!

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HOW DO I INSTALL GIT?

~$ sudo apt-get install git

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WHAT IS GITHUB?

- Web-based hosting service for version control using git
- Helps you to organize and centralize your work
- Provides social networking-like functions such as feeds, followers and wikis
- Free for public repositories

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LET'S DO SOME WORK

We are going to create an account
on GitHub!

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HOW DO I USE GIT SUCCESSFULLY?

https://xkcd.com/1597/

LET'S ADDRESS A FEW TOPICS FIRST

IF YOU WANT TO USE GIT EFFECTIVELY FIRST YOU NEED TO UNDERSTAND A FEW CONCEPTS ON HOW IT WORKS.

WHAT'S A REPOSITORY?

SNAPSHOTS AND COMMITS?

HOW DO BRANCHES WORK?

GIT REPOSITORIES

- Repositories are used to organize a project or a set of files
- They contain commits and references to those commits
- Stores information about itself on a .git folder, which is located on the root of the repository
- A repository is stored within the project files and is not centralized on a server

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GIT COMMITS

- A commit contains a set of files referring to a point in time
- They also store a reference to the previous state of said files
- Git repositories are represented by multiple commits, each containing a pointer to it's parent
- Each project has a commit with no parent which is known as the initial commit

GIT BRANCHES

- Branches are a reference to a commit and it's history
- At the start of your project, a master branch is created by default which contains a reference to the last commit
- Every time you do a commit, the branch reference moves it's pointer to the new snapshot

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USEFUL GIT COMMANDS

USE YOUR CHEAT SHEET AND DO THE FOLLOWING:

- Configure your username, password and email information for all repositories
- Clone the cba_tae_training repository
- Create a new branch with your username
- Snapshot a new file <firstname>.<lastname>.txt
- Create a new commit & push your changes!

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Q & A
TIME!