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!

Globant

HOW DO I INSTALL GIT?

~$ sudo apt-get install git

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

Globant

LET'S DO SOME WORK

We are going to create an account
on GitHub!

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.

Globant

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.

Globant

USEFUL GIT COMMANDS

USE YOUR CHEAT SHEET AND DO THE FOLLOWING:

- Configure your username, password and email information for all repositories.
- Clone the automation_bootcamp repository.
- Snapshot a new file <firstname>.<lastname>.txt
- Create a new commit.
- Push your changes and pull everyone else's!

Globant

Q & A
TIME!