

# Your attention Please

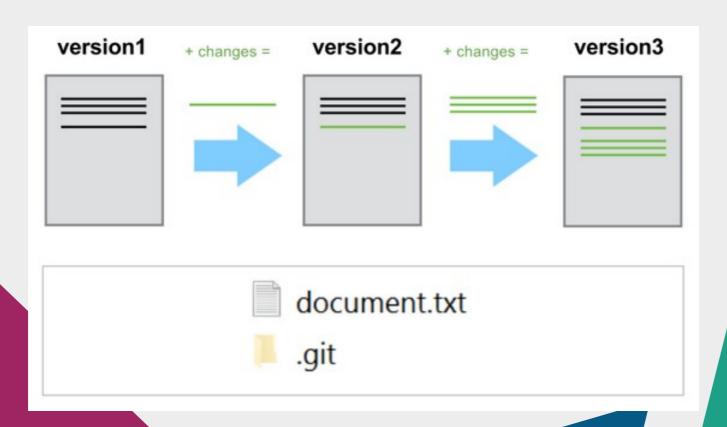


### GIT

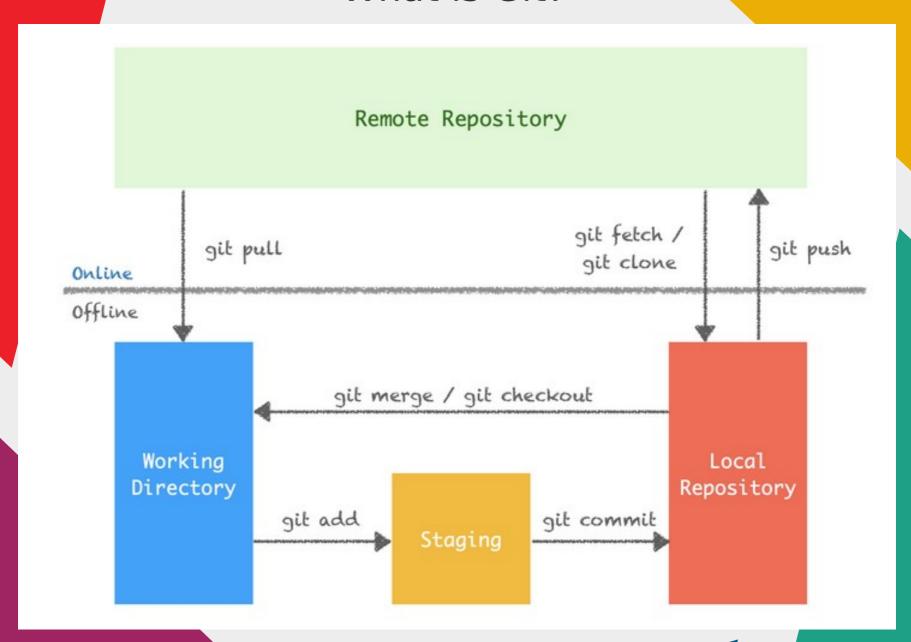
- What is Git?
- Why Git?
- How ?

#### What is Git?

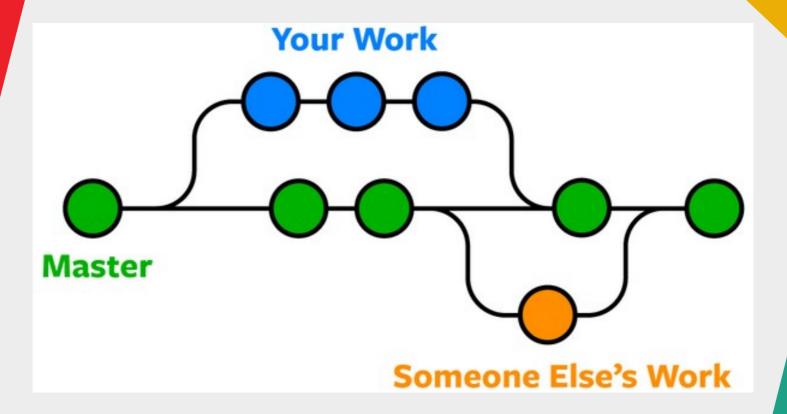
Git is a version-control system for tracking changes in source code during development. It is designed for coordinating work among programmers, but it can be used to track changes in any set of files.



#### What is Git?



### What is Git?



#### EXTRA CRANKY SLIDE

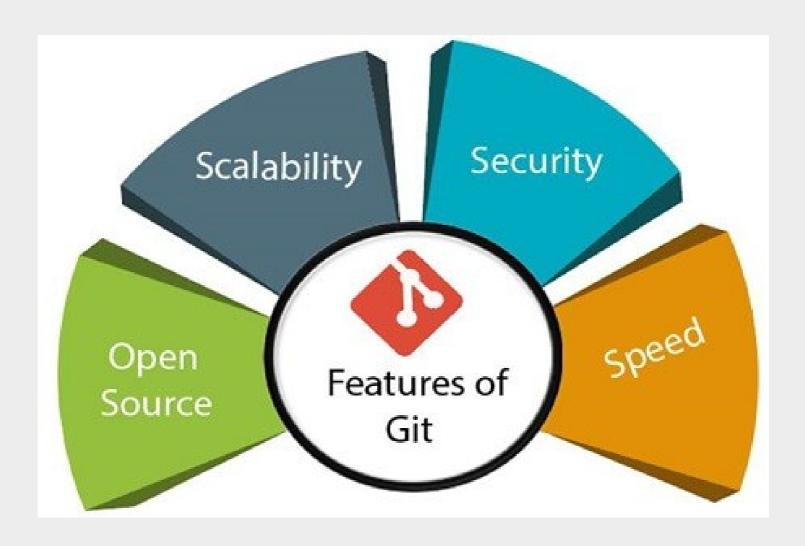
- Created by Linus Torvalds, creator of Linux, in 2005
  - Came out of Linux development community
  - Designed to do version control on Linux kernel



- Goals of Git:
  - Speed
  - Support for non-linear development (thousands of parallel branches)
  - Fully distributed
  - Able to handle large projects efficiently
  - (A "git" is a cranky old man. Linus meant himself.)



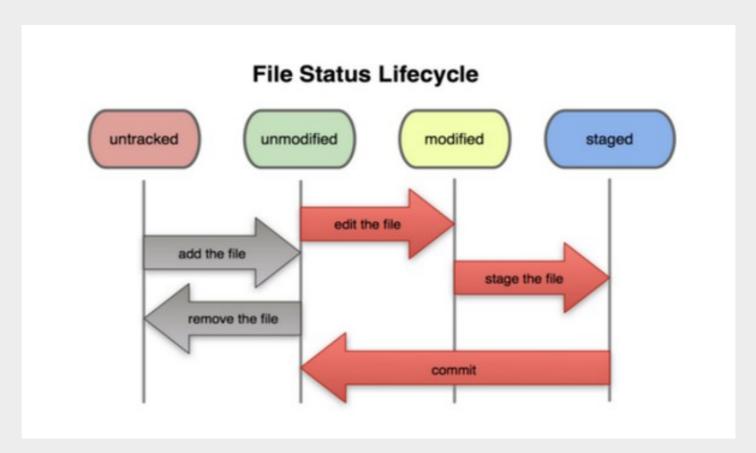
# Why Git? (Features)



# Why Git? (Features)



### HOW? (VERY BASIC)



- Modify files in your working directory.
- Stage files, adding snapshots of them to your staging area.
- Commit, which takes the files in the staging area and stores that snapshot permanently to your Git directory.

### HOW? (in terminal)

```
fullarostaky@malaka:~/Documents/ati_new/cursos/english/
[fullarostaky@malaka presentation]$ git init
Initialized empty Git repository in /home/fullarostaky/Docum
english/presentation/.git/
[fullarostaky@malaka presentation]$ touch presentation.txt
[fullarostaky@malaka presentation]$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
[fullarostaky@malaka presentation]$ git add presentation.txt
[fullarostaky@malaka presentation]$ git commit -m "initial commit of my presenta
tion"
[master (root-commit) d8203eb] initial commit of my presentation
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 presentation.txt
[fullarostaky@malaka presentation]$
```

First we "init" a repo

### HOW?

```
fullarostaky@malaka:~/Documents/ati_new/cursos/english/presentation
[fullarostaky@malaka presentation]$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
Untracked files:
  (use "git add <file>..." to include in what will be committed)
no changes added to commit (use "git add" and/or "git commit -a")
[fullarostaky@malaka presentation]$ git add presentation.txt
[fullarostaky@malaka presentation]$ git commit -m "added the initial text"
[master f03ca6b] added the initial text
1 file changed, 5 insertions(+)
[fullarostaky@malaka presentation]$ git add Screenshot_01.png
[fullarostaky@malaka presentation]$ git commit -m "added the first screenshot to
 use"
[master Ob9f946] added the first screenshot to use
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Screenshot_01.png
[fullarostaky@malaka presentation]$
```

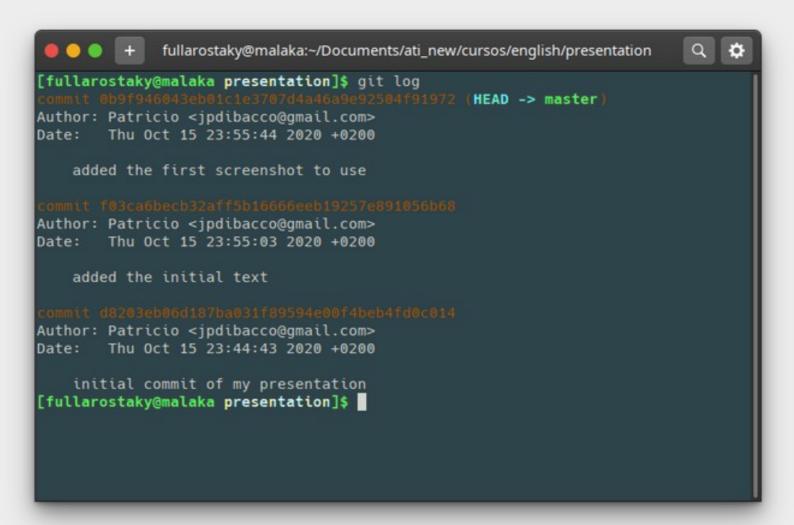
- Then we add files
- Then we commit our changes

### HOW?

```
fullarostaky@malaka:~/Documents/ati_new/cursos/english/presentation
[fullarostaky@malaka presentation]$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
[fullarostaky@malaka presentation]$ git add .
[fullarostaky@malaka presentation]$ git commit -m "added more screenshots"
[master 5557982] added more screenshots
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Screenshot_02.png
 create mode 100644 Screenshot_03.png
[fullarostaky@malaka presentation]$
```

 You can see changes in the working repository by using "git status"

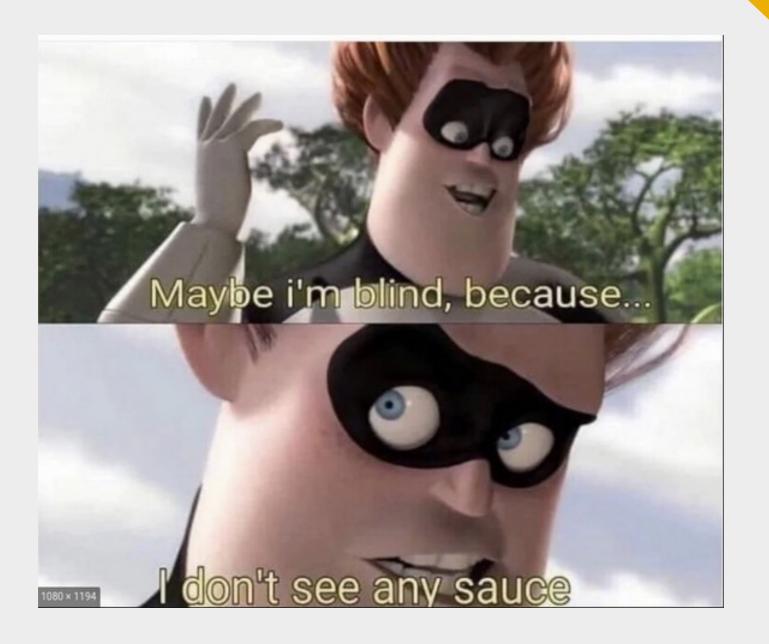
### HOW?



 You can see your "commits" in the repo with the command "git log"

### Vocabulary

- Git = in English: "unpleasant person", wiki: Git is a term of insult with origins in English denoting an unpleasant, silly, incompetent, annoying, senile, elderly or childish person. As a mild oath it is roughly on a par with prat and marginally less pejorative than berk.
- Torvalds sarcastically quipped about the name git (which means "unpleasant person" in British English slang): "I'm an egotistical bastard, and I name all my projects after myself. First 'Linux', now 'git'."The **man page** describes Git as "the stupid content tracker".
- Cranky = bad-tempered or irritable
- Repo (short for repository)
- "commit" in Git: A commit, or "revision", is an individual change to a file (or set of files). It's like when you save a file, except with Git, every time you save it creates a unique ID (a.k.a. the "SHA" or "hash") that allows you to keep record of what changes were made when and by who.
- "commit" in English: perpetrate or carry out ( a mistake, crime or an inmmoral act
- a.k.a = also known as
- "Kernel" = in English: the central or most important part of something. The Linux kernel is the main component of a Linux operating system and is the core interface between a computers hardware and its processes.



### Sauce:

- https://product.hubspot.com/blog/gitand-github-tutorial-for-beginners
- https://www.youtube.com/watch?v=USjZ cfj8yxE (15 mins video, super nice)
- https://courses.cs.washington.edu/course s/cse403/13au/lectures/git.ppt.pdf
- https://iamchuka.com/gitflow-workflow-continuous-integration-continu/
   I really recommend the last website, it explains everything in a very simple way.

# Thank you!!

