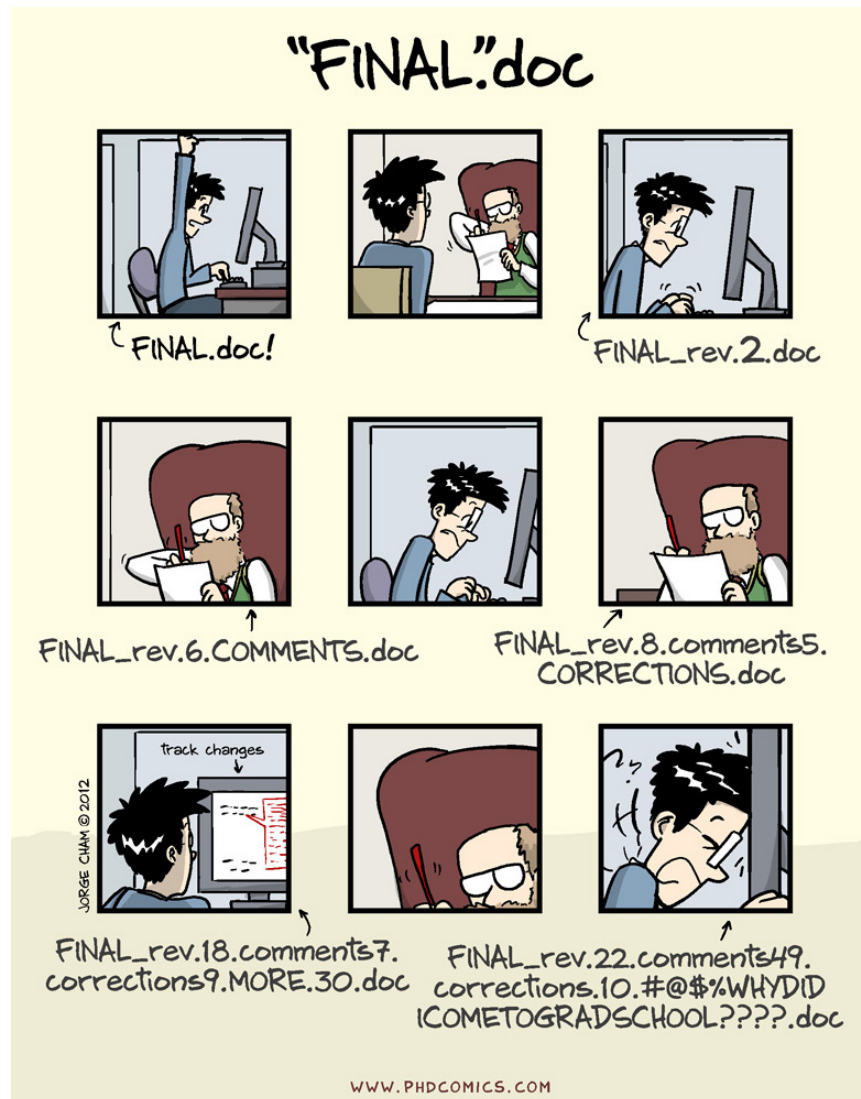


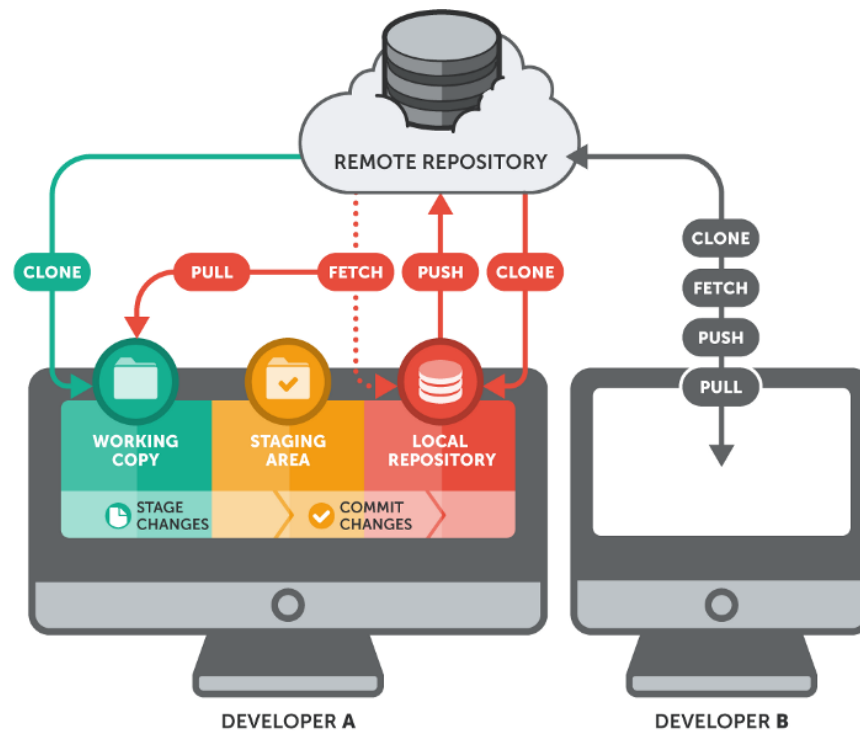
1 Git basics

1.1 Why git is important?

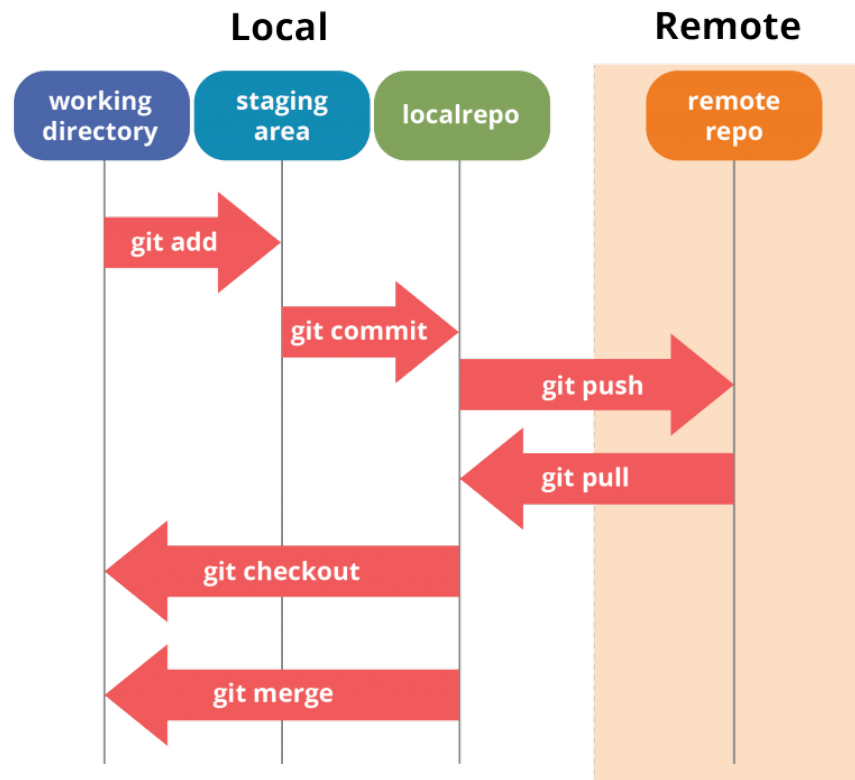


1.2 What is git?

Git is a Version Control System (VCS) that is designed to track files and changes among multiple users.

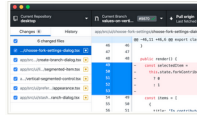


1.3 How does it work?

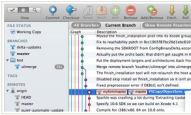


1.4 How to use git?

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



GitHub Desktop
Platform: Mac, Windows
Price: Free
License: MIT



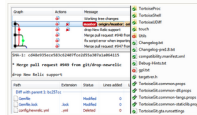
SourceTree
Platform: Mac, Windows
Price: Free
License: Proprietary



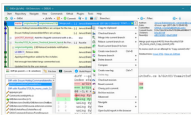
GitKraken
Platform: Linux, Mac, Windows
Price: Free / \$29 / \$49
License: Proprietary



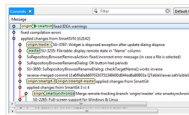
Magit
Platform: Linux, Mac, Windows
Price: Free
License: GNU GPL



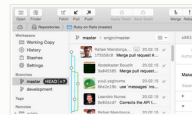
TortoiseGit
Platform: Windows
Price: Free
License: GNU GPL



Git Extensions
Platform: Linux, Mac, Windows
Price: Free
License: GNU GPL



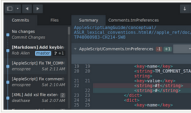
SmartGit
Platform: Linux, Mac, Windows
Price: \$7/User / Free for non-commercial use
License: Proprietary



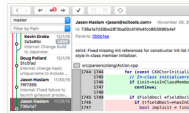
Tower
Platform: Mac, Windows
Price: \$60/User (Free 30 day trial)
License: Proprietary



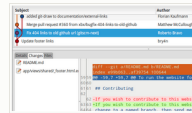
MeGit (based on EGit)
Platform: Linux, Mac, Windows
Price: Free
License: EPL2.0



Sublime Merge
Platform: Linux, Mac, Windows
Price: \$90/user, \$75 annual business sub, free eval
License: Proprietary



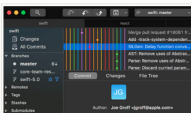
GitAhead
Platform: Linux, Mac, Windows
Price: Free
License: MIT



gitg
Platform: Linux, Windows
Price: Free
License: GNU GPL



GitUp
Platform: Mac
Price: Free
License: GNU GPL



Fork
Platform: Mac, Windows
Price: \$49/yr, free evaluation
License: Proprietary



ungit
Platform: Linux, Mac, Windows
Price: Free
License: MIT



Fugitive
Platform: Linux, Mac, Windows
Price: Free
License: Vim

2 Magit

```
Head:      master README.md: use less bold text
Merge:     origin/master README.md: remove logo
Push:      origin/master README.md: remove logo
Tag:       2.8.0 (8)

Unstaged changes (2)
modified   README.md
modified   lisp/magit.el
@@ -1,4 +1,4 @@
-;;; magit.el --- A Git porcelain inside Emacs -*- lexical-binding: t -*-
+;;; magit.el --- The Git porcelain inside Emacs and beyond -*- lexical-binding: t -*-

;; Copyright (C) 2008-2016 The Magit Project Contributors
;;

Stashes (1)
stash@{0}: cleanup readme

Unpulled from origin/master (4)
4aea99a * origin/master README.md: remove logo
04df2ff * magit-gpg-secret-key-hist: strip everything but the actual key
7fb3c23 * magit-stash-drop: log revision hash to process buffer too
29ff1ec * magit-mode-map: bind S-tab to magit-section-cycle-global

Unmerged into origin/master (1)
4f7ec47 * master README.md: use less bold text

41: 0 UR-*magit: magit All Magit Undo-Tree
```

2.1 Preparation

- ☐ In config.el

```
;;; Email information
(setq user-full-name "Maikol Solís"
      user-mail-address "maikol.solis@ucr.ac.cr")
```

- ☐ In init.el

```
:editor
(evil
+everywhere)
```

```
:tools
(magit
+forge)
```

- ☐ Create a github repository
- ☐ Do example with latex file

- Do example with org-roam

```
(after! org-roam
  (setq org-roam-directory
    (file-truename "~/documents/2022/2022_01_Taller_Emacs/roam")))
```

/Users/maikol/Dropbox/home/documents/2022/2022_01_Taller_Emacs/roam

- Activate real-auto-save-mode

```
– In packages.el
  (package! real-auto-save)

– In config.el

;;; real-auto-save
(use-package! real-auto-save
  :hook ((LaTeX-mode . real-auto-save-mode)
        (org-mode . real-auto-save-mode)
        (markdown-mode . real-auto-save-mode)))
```

- Activate git-auto-commit-mode

```
– In packages.el
  (package! git-auto-commit-mode)

– In config.el

(use-package! git-auto-commit-mode
  :config
  (setq gac-automatically-push-p t))
```

- Add .dir-locals

```
((nil . ((eval git-auto-commit-mode 1)
         (eval real-auto-save-mode 1))))
```