



Université Mohammed 1^{er} – Oujda

Ecole Supérieure de Technologie

Département Génie Informatique

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Filière : DUT DAI
Elément de module : Ingénierie logicielle
TP3

Objectifs/Tâches :

1. Mettre en évidence l'intérêt d'un système VCS
 - a. Repérer sur Internet au moins 3 VCS : (a) (b)(c)
 - b. Lequel d'eux est largement utilisé ?
2. Télécharger et installer l'outil Git
 - a. Consulter ce site : <https://git-scm.com/download/>
 - b. Consulter aussi ce site : <https://www.atlassian.com/git/tutorials/install-git>
 - c. Explorer Git Bash
 - i. Initialiser un nouveau dépôt Git (a Git repository) (\$git init)
 - ii. Clonage d'un dépôt Git existant
 - iii. Validation d'une version modifiée d'un fichier (commit)
 - iv. Configuration d'un dépôt Git pour la collaboration à distance
 - v. Commandes courantes de contrôle de versions avec Git

```
MINGW64:/c/Users/user
user@DESKTOP-91H392E MINGW64 ~
$ git config --global user.name "azmos"

user@DESKTOP-91H392E MINGW64 ~
$ git config --global user.email "azizi.mos@gmail.com"

user@DESKTOP-91H392E MINGW64 ~
$ git --version
git version 2.24.0.windows.2
```

```
MINGW64:/c/Users/user
user@DESKTOP-91H392E MINGW64 ~
$ git init
Initialized empty Git repository in C:/Users/user/.git/

user@DESKTOP-91H392E MINGW64 ~ (master)
$
```

```
MINGW64:/c/Users/user/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub
user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog (master)
$ cd TP3_Git_GitHub/

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub (master)
$ git init
Initialized empty Git repository in C:/Users/user/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub/.git/

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub (master)
$
```

```
MINGW64:/c/Users/user/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub
user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub (master)
$ git add CommitTest.txt

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub (master)
$ git commit -m "added CommitTest.txt to the repo"
[master (root-commit) 7725699] added CommitTest.txt to the repo
1 file changed, 1 insertion(+)
create mode 100644 CommitTest.txt

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub (master)
$
```

```
MINGW64:/c/Users/user/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub
b (master)
$

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHu
b (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Git-2.24.0.2-64-bit.exe
    Git-2.8.1-64-bit.exe
    Git_ReleaseNotes.html.pdf
    Inspecting a repository _ Atlassian Git Tutorial.pdf
    Saving changes _ Atlassian Git Tutorial.pdf
    TP3.docx
    git clone _ Atlassian Git Tutorial.pdf
    git init _ Atlassian Git Tutorial.pdf
    ~$TP3.docx

nothing added to commit but untracked files present (use "git add" to track)
user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHu
b (master)
$
```

```
MINGW64:/c/Users/user/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub
user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHu
b (master)
$ git log
commit 7725699c3a56716da674569ff446bc10d40b3b8f (HEAD -> master)
Author: azmos <azizi.mos@gmail.com>
Date:   Mon Nov 11 17:14:05 2019 +0100

    added CommitTest.txt to the repo

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHu
b (master)
$
```

```
MINGW64:/c:/Users/user/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub
b (master)
$ git add Test.txt

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHu
b (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   Test.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  Git-2.24.0.2-64-bit.exe
  Git-2.8.1-64-bit.exe
  Git_ReleaseNotes.html.pdf
  Inspecting a repository _ Atlassian Git Tutorial.pdf
  Inspecting a repository _ Atlassian Git Tutorial_.pdf
  Saving changes _ Atlassian Git Tutorial.pdf
  TP3.docx
  git clone _ Atlassian Git Tutorial.pdf
  git init _ Atlassian Git Tutorial.pdf
  ~$TP3.docx
```

```
MINGW64:/c:/Users/user/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   Test.txt

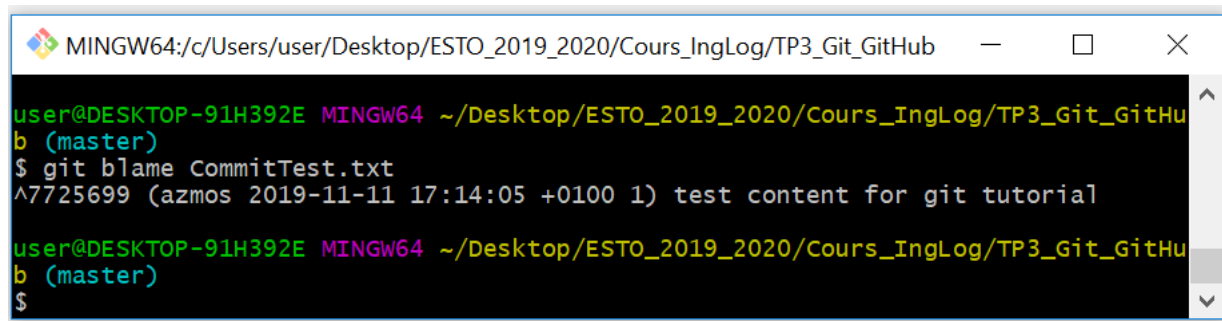
Untracked files:
  (use "git add <file>..." to include in what will be committed)
  Git-2.24.0.2-64-bit.exe
  Git-2.8.1-64-bit.exe
  Git_ReleaseNotes.html.pdf
  Inspecting a repository _ Atlassian Git Tutorial.pdf
  Inspecting a repository _ Atlassian Git Tutorial_.pdf
  Saving changes _ Atlassian Git Tutorial.pdf
  TP3.docx
  git clone _ Atlassian Git Tutorial.pdf
  git init _ Atlassian Git Tutorial.pdf
  ~$TP3.docx

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHu
b (master)
$

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHu
b (master)
$ git log
commit 7725699c3a56716da674569ff446bc10d40b3b8f (HEAD -> master)
Author: azmos <azizi.mos@gmail.com>
Date:   Mon Nov 11 17:14:05 2019 +0100

    added CommitTest.txt to the repo

user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHu
```

A screenshot of a Windows command prompt window. The title bar shows the path "MINGW64:/c:/Users/user/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub". The prompt is "user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub". The user has entered the command "\$ git blame CommitTest.txt". The output shows a single commit: "^7725699 (azmos 2019-11-11 17:14:05 +0100 1) test content for git tutorial". The prompt is now "\$".

```
user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub
b (master)
$ git blame CommitTest.txt
^7725699 (azmos 2019-11-11 17:14:05 +0100 1) test content for git tutorial
user@DESKTOP-91H392E MINGW64 ~/Desktop/ESTO_2019_2020/Cours_IngLog/TP3_Git_GitHub
b (master)
$
```

3. Créer un compte GitHub
 - a. Consulter le site <https://github.com>
 - b. Se familiariser avec l'interface github
 - c. Transférer à l'aide de Git vos TP sur votre compte GitHub
 - d. Partager vos TP réalisés avec votre enseignant