

Université de technologie d'Haïti(UNITECH)

Thème : Introduction Pratique à Git et GitHub

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La commande `cd nomdurepertoire` permet de changer de répertoire.

La commande `git --version` permet de vérifier la version du git.

La commande `mkdir nomRep` permet de créer un répertoire.

La commande `git init` permet d'initialiser un dépôt git.

La commande `echo` permet d'écrire dans un fichier.

La commande `git status` permet de vérifier l'état du dépôt.

La commande `git add .` pour ajouter les fichiers dans le dépôt .

La commande `git commit` pour valider l'ajout.

```
Windows PowerShell
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Testez le nouveau système multiplateforme PowerShell https://aka.ms/pscore6

PS C:\Users\ruth> cd onedrive
PS C:\Users\ruth\onedrive> cd bureau
PS C:\Users\ruth\onedrive\bureau> git --version
git version 2.43.0.windows.1
PS C:\Users\ruth\onedrive\bureau> mkdir devoir

Répertoire : C:\Users\ruth\onedrive\bureau

Mode                LastWriteTime         Length Name
----                -
d-----          2/12/2025  8:13 PM             devoir

PS C:\Users\ruth\onedrive\bureau> cd devoir
PS C:\Users\ruth\onedrive\bureau\devoir> git init
Initialized empty Git repository in C:/Users/ruth/OneDrive/Bureau/devoir/.git/
PS C:\Users\ruth\onedrive\bureau\devoir> echo "Hello,Git"> devoir.txt
PS C:\Users\ruth\onedrive\bureau\devoir> echo "Bonjour,Git">dev.txt
PS C:\Users\ruth\onedrive\bureau\devoir> git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    dev.txt
    devoir.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\ruth\onedrive\bureau\devoir> git add .
PS C:\Users\ruth\onedrive\bureau\devoir> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   dev.txt
    new file:   devoir.txt

PS C:\Users\ruth\onedrive\bureau\devoir> git commit -m "devoir redige"
[master (root-commit) 20b7108] devoir redige
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 dev.txt
create mode 100644 devoir.txt
PS C:\Users\ruth\onedrive\bureau\devoir> echo "Systeme d'exploitation!"> package.txt
```

La commande git log permet de lister les commit.

```
Windows PowerShell
nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\ruth\onedrive\bureau\devoir> git add .
PS C:\Users\ruth\onedrive\bureau\devoir> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   dev.txt
        new file:   devoir.txt

PS C:\Users\ruth\onedrive\bureau\devoir> git commit -m "devoir redige"
[master (root-commit) 20b7108] devoir redige
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 dev.txt
 create mode 100644 devoir.txt
PS C:\Users\ruth\onedrive\bureau\devoir> echo "Systeme d'exploitation!" > package.txt
PS C:\Users\ruth\onedrive\bureau\devoir> git add .
PS C:\Users\ruth\onedrive\bureau\devoir> git status
On branch master

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   package.txt

PS C:\Users\ruth\onedrive\bureau\devoir> git commit -m "ajout package"
[master af527d8] ajout package
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 package.txt
PS C:\Users\ruth\onedrive\bureau\devoir> git log
commit af527d8b50ef0c7caf9c36fcd7fe985a6f80727 (HEAD -> master)
Author: ruth-Dieuveuille <ruthdieuveuille09@gmail.com>
Date:   Wed Feb 12 20:23:02 2025 -0500

    ajout package

commit 20b7108b38056add109a20ad95df26e2d656c99d
Author: ruth-Dieuveuille <ruthdieuveuille09@gmail.com>
Date:   Wed Feb 12 20:19:46 2025 -0500

    devoir redige
PS C:\Users\ruth\onedrive\bureau\devoir>
```

Cette commande permet de générer une clé ssh.

```
Windows PowerShell
ssh-keygen -Y find-principals -s signature_file -f allowed_signers_file
ssh-keygen -Y match-principals -I signer_identity -f allowed_signers_file
ssh-keygen -Y check-novalidate -n namespace -s signature_file
ssh-keygen -Y sign -f key_file -n namespace file [-O option] ...
ssh-keygen -Y verify -f allowed_signers_file -I signer_identity
-n namespace -s signature_file [-r krl_file] [-O option]

PS C:\Users\ruth\onedrive\Bureau> cd devoir
PS C:\Users\ruth\onedrive\Bureau\devoir> ssh-keygen -t rsa -b 4096 -c "ruthdieuveuille09@gmail.com"
Too many arguments.
usage: ssh-keygen [-q] [-a rounds] [-b bits] [-C comment] [-f output_keyfile]
[-m format] [-N new_passphrase] [-O option]
[-t dsa | ecdsa | ecdsa-sk | ed25519 | ed25519-sk | rsa]
[-w provider] [-Z cipher]
ssh-keygen -p [-a rounds] [-f keyfile] [-m format] [-N new_passphrase]
[-P old_passphrase] [-Z cipher]
ssh-keygen -i [-f input_keyfile] [-m key_format]
ssh-keygen -e [-f input_keyfile] [-m key_format]
ssh-keygen -y [-f input_keyfile]
ssh-keygen -c [-a rounds] [-C comment] [-f keyfile] [-P passphrase]
ssh-keygen -l [-v] [-E fingerprint_hash] [-f input_keyfile]
ssh-keygen -B [-f input_keyfile]
ssh-keygen -D pkcs11
ssh-keygen -F hostname [-lv] [-f known_hosts_file]
ssh-keygen -H [-f known_hosts_file]
ssh-keygen -K [-a rounds] [-w provider]
ssh-keygen -R hostname [-f known_hosts_file]
ssh-keygen -r hostname [-g] [-f input_keyfile]
ssh-keygen -M generate [-O option] output_file
ssh-keygen -M screen [-f input_file] [-O option] output_file
ssh-keygen -I certificate_identity -s ca_key [-hU] [-O pkcs11_provider]
[-n principals] [-O option] [-V validity_interval]
[-z serial_number] file ...
ssh-keygen -L [-f input_keyfile]
ssh-keygen -A [-a rounds] [-f prefix_path]
ssh-keygen -k -f krl_file [-u] [-s ca_public] [-z version_number]
file ...
ssh-keygen -Q [-l] -f krl_file [file ...]
ssh-keygen -Y find-principals -s signature_file -f allowed_signers_file
ssh-keygen -Y match-principals -I signer_identity -f allowed_signers_file
ssh-keygen -Y check-novalidate -n namespace -s signature_file
ssh-keygen -Y sign -f key_file -n namespace file [-O option] ...
ssh-keygen -Y verify -f allowed_signers_file -I signer_identity
-n namespace -s signature_file [-r krl_file] [-O option]

PS C:\Users\ruth\onedrive\Bureau\devoir> ssh-keygen -t ed25519 -C "ruthdieuveuille09@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (C:\Users\ruth/.ssh/id_ed25519):
```

Cette commande permet d'afficher la clé ssh.

```
Windows PowerShell

ssh-keygen -c [-a rounds] [-C comment] [-f keyfile] [-P passphrase]
ssh-keygen -l [-v] [-E fingerprint_hash] [-f input_keyfile]
ssh-keygen -B [-f input_keyfile]
ssh-keygen -D pkcs11
ssh-keygen -F hostname [-lv] [-f known_hosts_file]
ssh-keygen -H [-f known_hosts_file]
ssh-keygen -K [-a rounds] [-w provider]
ssh-keygen -R hostname [-f known_hosts_file]
ssh-keygen -r hostname [-g] [-f input_keyfile]
ssh-keygen -M generate [-O option] output_file
ssh-keygen -M screen [-f input_file] [-O option] output_file
ssh-keygen -I certificate_identity -s ca_key [-hU] [-D pkcs11_provider]
[-n principals] [-O option] [-V validity_interval]
[-z serial_number] file ...
ssh-keygen -L [-f input_keyfile]
ssh-keygen -A [-a rounds] [-f prefix_path]
ssh-keygen -k -f krl_file [-u] [-s ca_public] [-z version_number]
file ...
ssh-keygen -Q [-l] -f krl_file [file ...]
ssh-keygen -Y find-principals -s signature_file -f allowed_signers_file
ssh-keygen -Y match-principals -I signer_identity -f allowed_signers_file
ssh-keygen -Y check-novalidate -n namespace -s signature_file
ssh-keygen -Y sign -f key_file -n namespace file [-O option] ...
ssh-keygen -Y verify -f allowed_signers_file -I signer_identity
-n namespace -s signature_file [-r krl_file] [-O option]

PS C:\Users\ruth\onedrive\Bureau\devoir> ssh-keygen -t ed25519 -C 'ruthdieuville09@gmail.com'
Generating public/private ed25519 key pair.
Enter file in which to save the key (C:\Users\ruth/.ssh/id_ed25519):
Created directory 'C:\Users\ruth/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\ruth/.ssh/id_ed25519
Your public key has been saved in C:\Users\ruth/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:waTti7gfZuLXxn6FGV/LvTWnIdQHDI8CD+189ixGiI ruthdieuville09@gmail.com
The key's randomart image is:
+--[ED25519 256]--+
|      . . . 00 0 .|
|      = . . 00 0 |
|      o + o o . .|
|      . o=00 . . |
|      . .S+ . . .|
|      . . * O . .|
|      E..+= X O . .|
|      . . . = o . .|
|      oo o . . o .|
+-----[SHA256]-----+
PS C:\Users\ruth\onedrive\Bureau\devoir> cat C:\Users\ruth/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZD11NTESAAAAI1NeerqZl/iZoizk1SH41bzF1xJf4TnKxx00068QWKSzd ruthdieuville09@gmail.com
PS C:\Users\ruth\onedrive\Bureau\devoir>
```

Cette commande permet de cloner le dépôt GitHub.

```

Windows PowerShell

ssh-keygen -R hostname [-f known_hosts_file]
ssh-keygen -R hostname [-g] [-f input_keyfile]
ssh-keygen -M generate [-O option] output_file
ssh-keygen -M screen [-f input_file] [-O option] output_file
ssh-keygen -I certificate_identity -s ca_key [-N] [-O pkcs1_provider]
[-n principals] [-O option] [-V validity_interval]
[-z serial_number] file ...
ssh-keygen -L [-f input_keyfile]
ssh-keygen -A [-a rounds] [-f prefix_path]
ssh-keygen -k -f krl_file [-u] [-s ca_public] [-z version_number]
file ...
ssh-keygen -Q [-l] -f krl_file [file ...]
ssh-keygen -Y find-principals -s signature_file -f allowed_signers_file
ssh-keygen -Y match-principals -I signer_identity -f allowed_signers_file
ssh-keygen -Y check-novalidate -n namespace -s signature_file
ssh-keygen -Y sign -f key_file -n namespace file [-O option] ...
ssh-keygen -Y verify -f allowed_signers_file -I signer_identity
-n namespace -s signature_file [-r krl_file] [-O option]

PS C:\Users\ruth\onedrive\Bureau\devoir> ssh-keygen -t ed25519 -C "ruthdieuveuille09@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (C:\Users\ruth\.ssh\id_ed25519):
Created directory 'C:\Users\ruth\.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\ruth\.ssh\id_ed25519
Your public key has been saved in C:\Users\ruth\.ssh\id_ed25519.pub
The key fingerprint is:
SHA256:waTti7gfZu1Xn6FgGv/LvTwnIdQHDI8CD+i89ixGiI ruthdieuveuille09@gmail.com
The key's randomart image is:
---[ED25519 256]---
|          . . . . .
|          = . . . . .
|          o + o . . .
|          . o+oo . . .
|          . -S+ . . .
|          . . * o . . .
|          E..+ X o . . .
|          . . . . = o . .
|          oo o . . o .
|          -----[SHA256]-----

PS C:\Users\ruth\onedrive\Bureau\devoir> cat C:\Users\ruth\.ssh\id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAINeerqZl/i2oi:k15H41bzF1xJf4TnKXx00068QWkszd ruthdieuveuille09@gmail.com
PS C:\Users\ruth\onedrive\Bureau\devoir> git clone git@github.com:ruth27-24/TD.git
Cloning into 'TD'...
The authenticity of host 'github.com (140.82.113.3)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOQu.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? Host key verification failed.
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
PS C:\Users\ruth\onedrive\Bureau\devoir>

```

```
MINGW64~/Users/ruth/onedrive/bureau/devoir/TD/systeme/image
$ cd TD

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD (main)
$ mkdir systeme

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD (main)
$ cd systeme

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ mkdir image

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ cd ..

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD (main)
$ mkdir reseau

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD (main)
$ cd reseau

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/reseau (main)
$ mkdir image

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/reseau (main)
$ cd ..

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD (main)
$ cd systeme

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git add .

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git commit -m "ajout rapport1"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git push
Everything up-to-date

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ cd image
```

```
MINGW64~/Users/ruth/onedrive/bureau/devoir/TD/systeme/image
ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD (main)
$ mkdir reseau

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD (main)
$ cd reseau

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/reseau (main)
$ mkdir image

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/reseau (main)
$ cd ..

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD (main)
$ cd systeme

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git add .

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git commit -m "ajout rapport1"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git push
Everything up-to-date

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ cd image

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git add .

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git commit -m "ajout les images tdl"
On branch main
Your branch is up to date with 'origin/main'.
```

```

MINGW64/c/Users/ruth/onedrive/bureau/devoir/TD/systeme/image
ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/reseau (main)
$ cd ..

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD (main)
$ cd systeme

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git add .

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git commit -m "ajout rapport1"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git push
Everything up-to-date

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ cd image

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git add .

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git commit -m "ajout les images tdl"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git push
Everything up-to-date

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$

```

```

MINGW64/
ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git add .

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git commit -m "ajout rapport1"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ git push
Everything up-to-date

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ cd image

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git add .

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git commit -m "ajout les images tdl"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ git push
Everything up-to-date

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme/image (main)
$ cd ..

ruth@ruth MINGW64 ~/onedrive/bureau/devoir/TD/systeme (main)
$ cd /

ruth@ruth MINGW64 /
$ move "c

```