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# *RAPPORT DE BRIEF*

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## ***SINARIO 1***

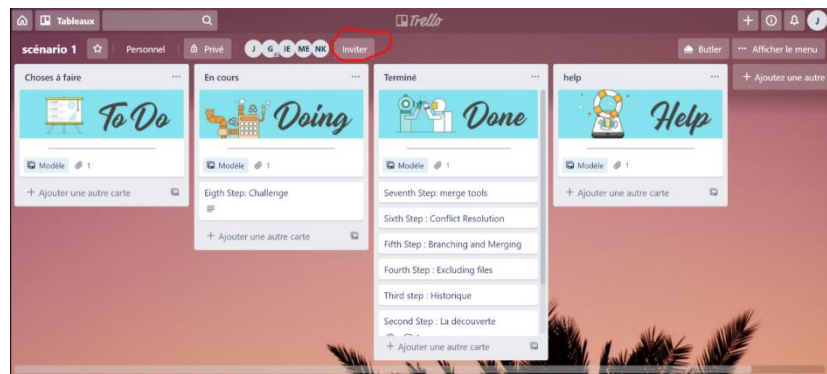
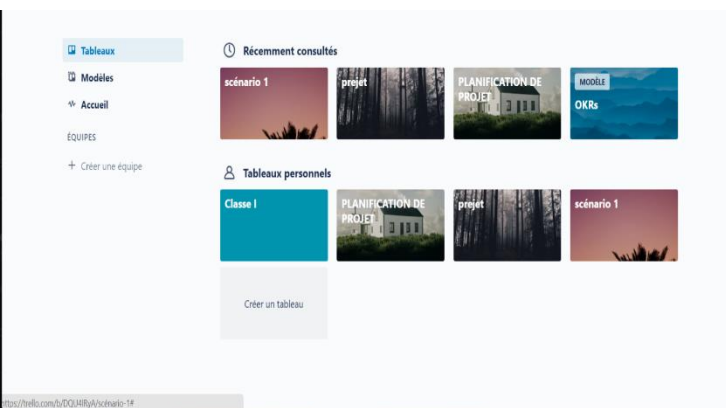
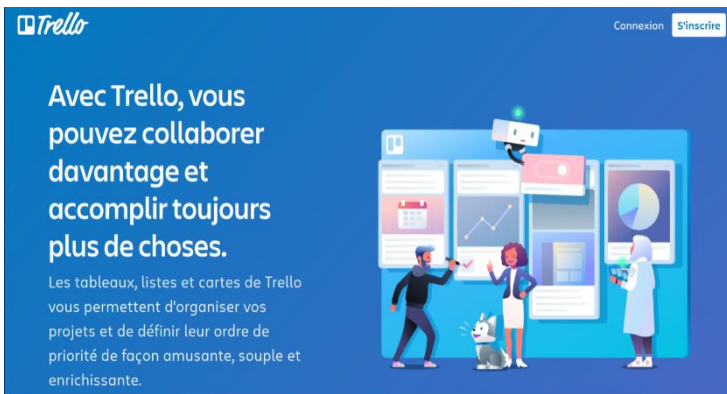


29 NOVEMBRE 2019

**YOUCODE**

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## Créez un tableau Trello pour la planification du Product



**Inivit** : demande d'invitations des autres apprenants

# First Step : Immersion

**Git** s'est imposé comme le gestionnaire de versions de référence. Il est utilisé par de nombreux projets Open Source (hébergés par Github) et hormis quelques résistants (comme Facebook, qui utilise Mercurial), la plupart des sociétés l'ont désormais adoptés en remplacement des ancêtres CVS et SVN.

**Explication de fonction « .git »** : c'est un dossier temporaire pour initialiser le dépôt local.

## Explication des commandes

<code>mkdir</code>	<code>mkdir</code> pour créer un dossier
<code>cd</code>	<code>cd</code> pour accéder directement au répertoire de l'utilisateur
<code>ls</code>	<code>ls</code> liste tous les contenus dans un répertoire spécifique
<code>git status</code>	<code>status</code> pour affiche la liste des fichiers modifiés ainsi que les fichiers qui doivent encore être ajoutés ou validés
<code>git add .</code>	<code>git add .</code> pour ajouter des fichiers
<code>git init</code>	<code>git init</code> pour créer un nouveau dépôt GIT
<code>git commit -m "Description du commit"</code>	<code>git commit -m "Description du commit"</code> pour valider les modifications apportées au HEAD

**Vim README.me** : pour ajouter la  
line « Demo project un simple  
fichier »

```

MINGW64/c/Users/Administrateur/Desktop/project
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop (master)
mkdir project

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop (master)
cd project/

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
git init
initialized empty Git repository in C:/Users/Administrateur/Desktop/project/.git/

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
mkdir demo

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
git status
on branch master

no commits yet

nothing to commit (create/copy files and use "git add" to track)

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
ls
demo/

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
vim README.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
git add .
warning: LF will be replaced by CRLF in README.md.
the file will have its original line endings in your working directory

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
git commit -m "first step"
master (root-commit) 07a4e10] first step
1 file changed, 1 insertion(+)
create mode 100644 README.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)

```

## Second Step : La découverte

```

MINGW64/c/Users/Administrateur/Desktop/project
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ cd .git

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project/.git (GIT_DIR!)
$ ls -al
total 17
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 12:01 ./
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 12:00 ../
-rw-r--r-- 1 Administrateur 197121 11 nov. 26 12:01 COMMIT_EDITMSG
-rw-r--r-- 1 Administrateur 197121 130 nov. 26 11:54 config
-rw-r--r-- 1 Administrateur 197121  73 nov. 26 11:54 description
-rw-r--r-- 1 Administrateur 197121  23 nov. 26 11:54 HEAD
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 11:54 hooks/
-rw-r--r-- 1 Administrateur 197121 137 nov. 26 12:01 index
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 11:54 info/
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 12:01 logs/
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 12:01 objects/
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 11:54 refs/

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project/.git (GIT_DIR!)
$ cd ..

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ touch Licence.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git commit -am "second commit"
On branch master
Untracked files:
  (use "git add" to include in the commit)
        Licence.md

nothing added to commit but untracked files present

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git add .

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git commit -am "second commit"
[master db20f2f] second commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Licence.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ ls
demo/  Licence.md  README.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)

```

### Les explications :

**HEAD** : The HEAD in Git is the pointer to the current branch reference, which is in turn a pointer to the last commit you made or the last commit that was checked out into your working directory. That also means it will be the parent of the next commit you do.

**LOGS** : une clause pour afficher l'historique des commit traiter

**Une branche** : dans git est tout simplement un pointeur vers un de ces objets commit. la branche par défaut dans git appeler master il pointe vers le dernier commit réalisés.

### Les commande :

**Ls -al** : affiche les fichier caché

```

MINGW64/c/Users/Administrateur/Desktop/project
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ cd .git

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project/.git (GIT_DIR!)
$ ls -al
total 17
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 12:01 ./
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 12:00 ../
-rw-r--r-- 1 Administrateur 197121 11 nov. 26 12:01 COMMIT_EDITMSG
-rw-r--r-- 1 Administrateur 197121 130 nov. 26 11:54 config
-rw-r--r-- 1 Administrateur 197121  73 nov. 26 11:54 description
-rw-r--r-- 1 Administrateur 197121  23 nov. 26 11:54 HEAD
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 11:54 hooks/
-rw-r--r-- 1 Administrateur 197121 137 nov. 26 12:01 index
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 11:54 info/
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 12:01 logs/
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 12:01 objects/
drwxr-xr-x 1 Administrateur 197121  0 nov. 26 11:54 refs/

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project/.git (GIT_DIR!)
$ cd ..

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ touch Licence.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git commit -am "second commit"
On branch master
Untracked files:
  (use "git add" to include in the commit)
        Licence.md

nothing added to commit but untracked files present

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git add .

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git commit -am "second commit"
[master db20f2f] second commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Licence.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ ls
demo/  Licence.md  README.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)

```

## third step : Historique

```
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git config --global alias.historique "log --graph --date=relative --all"

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git historique
* commit db20f2f2aeb0aacb9035078f76073e9c592a4a9a (HEAD -> master)
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 50 minutes ago

    second commit

* commit 07a4e10b520899c9b4cd0a1e453eac37bfb3183b
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 2 hours ago

    first step

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$
```

### LES COMMANDES :

#### Git log --oneline :

afficher le dernier  
commit

Git historique : pour  
afficher les historique  
du fichier README .md  
avec alias .

Afficher la liste des alias

```
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git config --list | grep alias
alias.last=historique
alias.his=historique
alias.historique=log --graph --date=relative --all

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$
```

## Fourth Step : Excluding files

```
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ mv Licence.md Licence.txt

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ ls
demo/  Licence.txt  README.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git commit -am "third commit"
[master c951a8f] third commit
1 file changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 Licence.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ touch application.log

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ touch .gitignore

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ vim .git
.git/      .gitignore

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ vim .git
.git/      .gitignore

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ vim .gitignore

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git add .
warning: LF will be replaced by CRLF in .gitignore.
The file will have its original line endings in your working directory

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git commit -m "Fourth commit"
[master 54c27b5] fourth commit
2 files changed, 1 insertion(+)
create mode 100644 .gitignore
create mode 100644 Licence.txt

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ |
```

the file nommed ".gitignore" ignores just files that weren't tracked before (by git add).

## Fifth Step : Branching and Merging

```
$ git add .
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (updates)
$ git add .

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (updates)
$ git commit -m "fifth commit"
[updates 17e9cd7] fifth commit
1 file changed, 1 insertion(+), 1 deletion(-)

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (updates)
$ git historique
* commit 17e9cd7d8dbc5deaf2b2e7e59dc408f4a0a3dfdd (HEAD -> updates)
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 28 seconds ago

    fifth commit

* commit 54c27b53dc4eaf9bda0a3c5fe3760e3e9c675596 (master)
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 16 minutes ago

    fourth commit

* commit c951a8f6f487094f78a1a080fd3ef6c1690045af
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 20 minutes ago

    third commit

* commit db20f2f2aeb0aacb9035078f76073e9c592a4a9a
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 73 minutes ago

    second commit

* commit 07a4e10b520899c9b4cd0a1e453eac37bfb3183b
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 3 hours ago

    first step

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (updates)
$ |
```

```
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (updates)
$ git checkout master
Switched to branch 'master'

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git historique
* commit 17e9cd7d8dbc5deaf2b2e7e59dc408f4a0a3dfdd (updates)
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 2 minutes ago

    fifth commit

* commit 54c27b53dc4eaf9bda0a3c5fe3760e3e9c675596 (HEAD -> master)
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 18 minutes ago

    fourth commit

* commit c951a8f6f487094f78a1a080fd3ef6c1690045af
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 22 minutes ago

    third commit

* commit db20f2f2aeb0aacb9035078f76073e9c592a4a9a
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 74 minutes ago

    second commit

* commit 07a4e10b520899c9b4cd0a1e453eac37bfb3183b
  Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
  Date: 3 hours ago

    first step

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git merge updates
Updating 54c27b5..17e9cd7
Fast-forward
 README.md | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ |
```

- ⇒ Après la création de la branche Updates , on constate que le nom de la branche s'affichera
- ⇒ when we add Updates branch , the branch master appears while tapping alias command. But before it didn't appear.



# Sixth Step : Conflict Resolution

```
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git branch BAD

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git checkout BAD
Switched to branch 'BAD'

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (BAD)
$ vim README.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (BAD)
$ git commit -am "sixth commit "
[BAD 51325a8] sixth commit
1 file changed, 1 insertion(+)

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (BAD)
$ git checkout master
Switched to branch 'master'

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ vim README.md

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git add .

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git commit -m "branche bien faite "
[master 3021e77] branche bien faite
1 file changed, 2 insertions(+)

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git commit --amend -m new sixth commit
error: pathspec 'sixth' did not match any file(s) known to git
error: pathspec 'commit' did not match any file(s) known to git

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git commit --amend -m "new sixth commit"
[master f4fa494] new sixth commit
Date: Tue Nov 26 14:56:44 2019 +0100
1 file changed, 2 insertions(+)
```

```
Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
$ git merge BAD
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master|MERGING)
$ cat README.md

#Demo project git un simple fichier
<<<<<<< HEAD
Troubleshooting
=====
Trouble
>>>>>> BAD

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master|MERGING)
$ git mergetool

This message is displayed because 'merge.tool' is not configured.
See 'git mergetool --tool-help' or 'git help config' for more details.
'git mergetool' will now attempt to use one of the following tools:
opendiff kdiff3 tkdiff xxdiff meld tortoisemerge gvimdiff diffmerge ecm
p4merge araxis bc codecompare smerge emerge vimdiff
Merging:
README.md

Normal merge conflict for 'README.md':
{local}: modified file
{remote}: modified file
Hit return to start merge resolution tool (vimdiff)
4 fichiers à éditer

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master|MERGING)
$ cat README.md

#Demo project git un simple fichier
<<<<<<< HEAD
Troubleshooting
=====
Trouble
>>>>>> BAD
```

```
4e10 HEAD{147}. Commit (initial): First step

Administrateur@DESKTOP-QKQIPNQ MINGW64 ~/Desktop/project (master)
git historique
commit f4fa4941add622e7c15b1fad16be959b98c71fc2 (HEAD -> master)
Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
Date: 6 minutes ago

new sixth commit

* commit 51325a89992267b2840c1dfb46a130450b58e8 (BAD)
Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
Date: 7 minutes ago

sixth commit

commit 17e9cd7d8dbc5deaf2b2e7e59dc408f4a0a3dfdd (updates)
Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
Date: 13 minutes ago

fifth commit

commit 54c27b53dc4eaf9bda0a3c5fe3760e3e9c675596
Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
Date: 29 minutes ago

fourth commit

commit c951a8f6f487094f78a1a080fd3ef6c1690045af
Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
Date: 33 minutes ago

third commit

commit db20f2f2aeb0aacb9035078f76073e9c592a4a9a
Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
Date: 86 minutes ago

second commit

commit 07a4e10b520899c9b4cd0a1e453eac37bfb3183b
Author: najem <57941520+najemKHADIJA64@users.noreply.github.com>
Date: 3 hours ago

first step
```

Après la modification du commentaire  
'branche bien faite' ==> ceci  
bien modifier en ' new sixth commit '.

On a un conflit à cause de la modification  
du même fichier ' README.md' dans des  
branches différentes ( master et BAD )

After merging branches( master and BAD )  
the content of both of them was showed  
inside README.md file with a name of each  
branches.

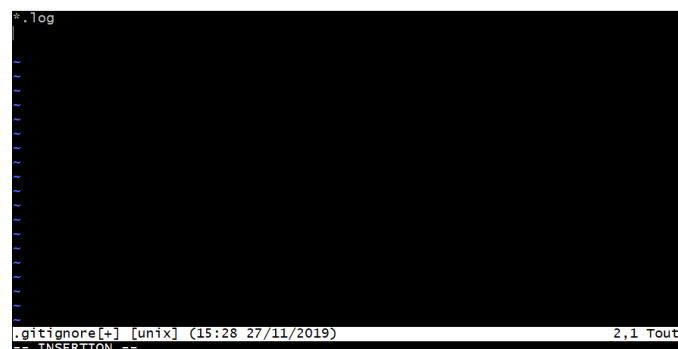
On a besoin de la configuration de  
merge.tool pour faire le merge avec succès.

<https://www.perforce.com/products/helix-core-apps/merge-diff-tool-p4merge>



[Git config –global mergetool.p4merge.path](#) “lien d’installation” (.exe) Nous permettre pour faire merge tool.En fin on a constate que la branche BAD et master est merge .

## eighth Step: Challenge



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