

AGENDA

Today we will learn:

- Why do we need to update the local repository
- How often do we have to update the local repository
- Git fetch
- git merge
- What is 'fast-forward'
- Git pull
- 'mkdir' command
- Real-life scenario of team development and demo



Git fetch shows the changes from remote repository to local repository

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git (TA0001_discount_calculation)
$ git switch master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git (master)
$ cd src

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ ls -l
total 1
-rw-r--r-- 1 Andrii_Piatakha 1049089 152 oct 24 20:40 HelloWorld.java

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git fetch
From github.com:AndriiPiatakha/learnit_git
 979f1ca..26726f0 master    -> origin/master

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$
```

Git merge , merges the files on remote to local repository

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git (master)
$ cd src

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ ls -l
total 1
-rw-r--r-- 1 Andrii_Piatakha 1049089 152 oct 24 20:40 HelloWorld.java

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git fetch
From github.com:AndriiPiatakha/learnit_git
 979f1ca..26726f0 master    -> origin/master

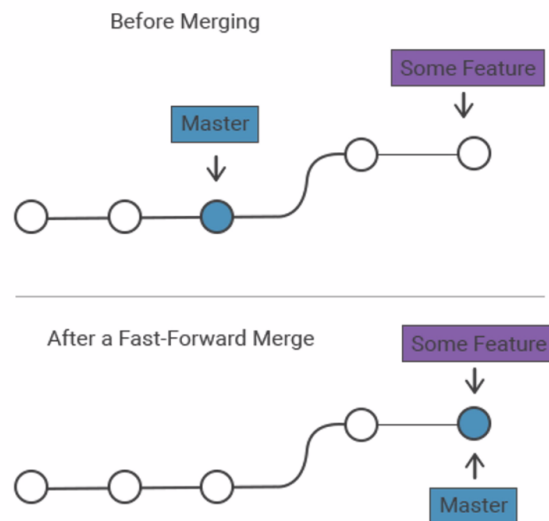
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ ls -l
total 1
-rw-r--r-- 1 Andrii_Piatakha 1049089 152 oct 24 20:40 HelloWorld.java

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git merge
Updating 979f1ca..26726f0
Fast-forward
 src/DiscountCalculationService.java | 0
 src/HelloWorld.java                 | 10 ++++++++
 2 files changed, 9 insertions(+), 1 deletion(-)
 create mode 100644 src/DiscountCalculationService.java

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$
```

here fast forward means

Fast-forwarding in Git



To open a file in “nano” text editor

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ nano HelloWorld.java

GNU nano 4.9.3 HelloWorld.java
public class HelloWorld {
    public static void main(String[] args) {
        System.out.println("Hello world");
    }
}

[ Read 14 lines (Converted from DOS format) ]
^G Get Help      ^O Write Out    ^W Where Is     ^K Cut Text     ^J Justify      ^C Cur Pos
^X Exit          ^R Read File    ^\ Replace      ^U Paste Text   ^T To Spell     ^_ Go To Line
```

To create a directory → “mkdir filename”

MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src

```
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git switch -c TA0002_virtual_cart
Switched to a new branch 'TA0002_virtual_cart'

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0002_virtual_cart)
$ mkdir cart

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0002_virtual_cart)
$ cd
```

Git pull is combination of git merge and git fetch

MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src

```
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ nano HelloWorld.java

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git pull
```

Udemy

Development in a team with Git

