

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)
$
```

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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

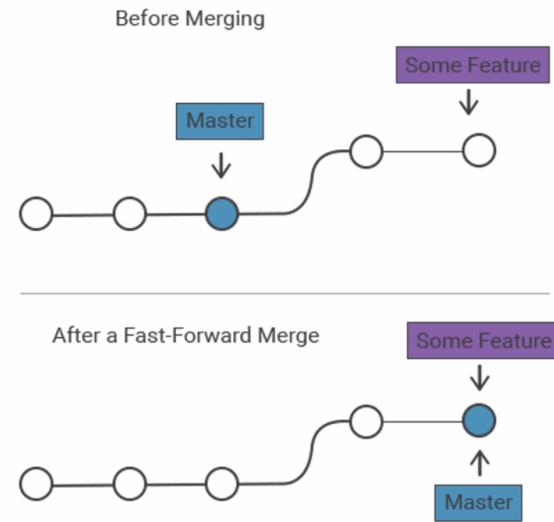
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git merge
Updating 979f1ca..26726f0
Fast-forward
src/DiscountCalculationService.java |  0
src/HelloWorld.java                 | 10 ++++++++-
2 files changed, 9 insertions(+), 1 deletion(-)
create mode 100644 src/DiscountCalculationService.java

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

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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
```

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src  
GNU nano 4.9.3  
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello World");  
    }  
}
```

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
```

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Development in a team with Git

