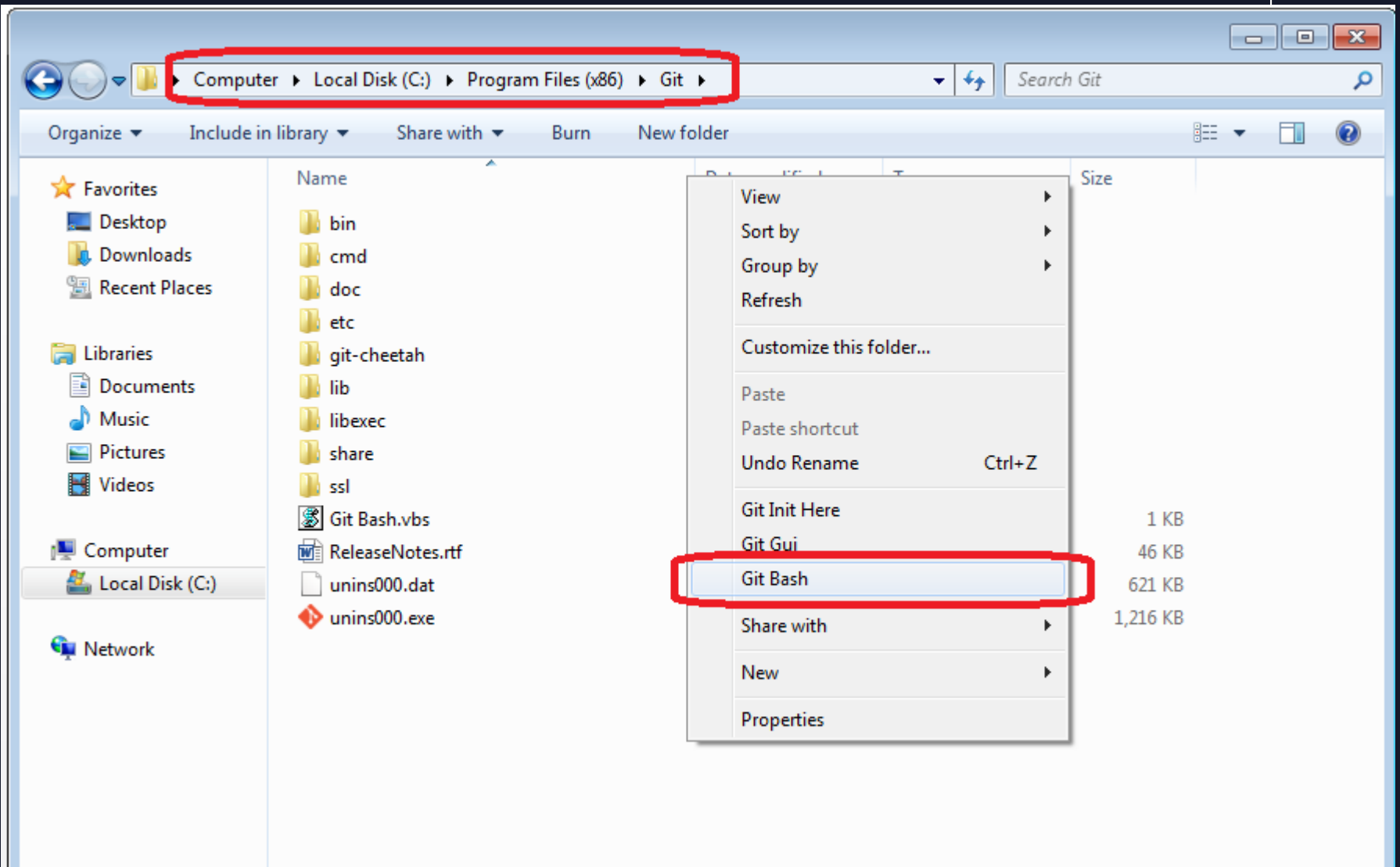


دستورات git



محل نصب git



مشاهده تنظیمات جاری git



MINGW32:/C/Users/user/Desktop/git

```
user@COMPUTER /C/Users/user/Desktop/git
$ git config --list
core.symlinks=false
core.autocrlf=true
color.diff=auto
color.status=auto
color.branch=auto
color.interactive=true
pack.packsizelimit=2g
help.format=html
http.sslcainfo=/bin/curl-ca-bundle.crt
sendemail.smtpserver=/bin/msmtp.exe
diff.astextplain.textconv=astextplain
rebase.autosquash=true
user.email=student@iauet.ac.ir
user.name=student
gui.recentrepo=C:/Users/user/Desktop/contents/gitdemo

user@COMPUTER /C/Users/user/Desktop/git
$
```



انواع پارامترهای تنظیمی git

- محلی local : هر مخزن مقدار مخصوص به خود را روی یک کامپیوتر مشترک میتواند داشته باشد
- سراسری global: بین چند مخزن موجود مشترک است.



فایل تنظیمات محلی git repository در هر مخزن



```
C:\Users\user\Desktop\contents\gitdemo\.git\config - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
config .gitconfig
1 [core]
2     repositoryformatversion = 0
3     filemode = false
4     bare = false
5     logallrefupdates = true
6     symlinks = false
7     ignorecase = true
8     hideDotFiles = dotGitOnly
9 [user]
10     email = student@iauet.ac.ir
11     name = student
12 [gui]
13     wstate = normal
14     geometry = 1109x469+41+69 257 192
15
```

مشاهده فایل تنظیمات سراسری git

A screenshot of a Notepad++ window titled "C:\Users\user\.gitconfig - Notepad++". The window displays the content of the global git configuration file. The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Macro, Run, Plugins, and Window. The toolbar contains various icons for file operations. The text area shows the following configuration: [user] email = student1@iauet.ac.ir name = student1 [gui] recentrepo = C:/Users/user/Desktop/contents/gitdemo. Line 6 is highlighted in blue.

```
1 [user]
2     email = student1@iauet.ac.ir
3     name = student1
4 [gui]
5     recentrepo = C:/Users/user/Desktop/contents/gitdemo
6
```

تغییر تنظیمات اولیه



```
MINGW32:/C:/Users/user/Desktop/git

user@COMPUTER /C:/Users/user/Desktop/git
$ cat ../../.gitconfig
[user]
    email = student@iauet.ac.ir
    name = student
[gui]
    recentrepo = C:/Users/user/Desktop/contents/gitdemo

user@COMPUTER /C:/Users/user/Desktop/git
$ git config --global --list
user.email=student@iauet.ac.ir
user.name=student
gui.recentrepo=C:/Users/user/Desktop/contents/gitdemo

user@COMPUTER /C:/Users/user/Desktop/git
$ git config --global user.name student1

user@COMPUTER /C:/Users/user/Desktop/git
$ git config --global user.email student1@iauet.ac.ir

user@COMPUTER /C:/Users/user/Desktop/git
$ cat ../../.gitconfig
[user]
    email = student1@iauet.ac.ir
    name = student1
[gui]
    recentrepo = C:/Users/user/Desktop/contents/gitdemo

user@COMPUTER /C:/Users/user/Desktop/git
$
```

مشاهده نسخه git نصب شده



```
MINGW32:/C/Users/user/Desktop/git

user@COMPUTER /C/Users/user/Desktop/git
$ git version
git version 1.9.5.msysgit.0

user@COMPUTER /C/Users/user/Desktop/git
$
```




Bare: برای محیط سمت سرور، فاقد **working dir**
Non-bare: برای استفاده سمت کلاینت



ایجاد مخزن non-bare با دستور git init

MINGW32:/C:/Users/user/Desktop/proj01

user@COMPUTER /C:/Users/user/Desktop

\$ git version

git version 1.9.5.msysgit.0

user@COMPUTER /C:/Users/user/Desktop

\$ mkdir proj01

user@COMPUTER /C:/Users/user/Desktop

\$ cd proj01

user@COMPUTER /C:/Users/user/Desktop/proj01

\$ ls -all

total 20

drwxr-xr-x	2	user	Administ	0	Mar 12 02:42	.
dr-xr-xr-x	23	user	Administ	40960	Mar 12 02:42	..

user@COMPUTER /C:/Users/user/Desktop/proj01

\$ git init

Initialized empty Git repository in c:/Users/user/Desktop/proj01/.git/

user@COMPUTER /C:/Users/user/Desktop/proj01 (master)

ساختار فایل اولیه مخزن



```
C:\Windows\system32\cmd.exe

C:\Users\user\Desktop\proj01>tree /f /a
Folder PATH listing
Volume serial number is ECE8-6466
C:.
\---.git
|   config
|   description
|   HEAD
|
+---hooks
|   applypatch-msg.sample
|   commit-msg.sample
|   post-update.sample
|   pre-applypatch.sample
|   pre-commit.sample
|   pre-push.sample
|   pre-rebase.sample
|   prepare-commit-msg.sample
|   update.sample
|
+---info
|   exclude
|
+---objects
|   +---info
|   |   \---pack
|   \---refs
|       +---heads
|       \---tags
```

C:\Users\user\Desktop\proj01>_

ایجاد مخزن bare با دستور git init --bare



```
MINGW32: C:/Users/user/Desktop/proj01
user@COMPUTER /C:/Users/user/Desktop/proj01
$ git init --bare
Initialized empty Git repository in c:/Users/user/Desktop/proj01/
user@COMPUTER /C:/Users/user/Desktop/proj01 (BARE:master)
$
```

```
C:\Windows\system32\cmd.exe
C:\Users\user\Desktop\proj01>tree /f /a
Folder PATH listing
Volume serial number is ECE8-6466
C:
|
|   config
|   description
|   HEAD
|
+---hooks
|   applypatch-msg.sample
|   commit-msg.sample
|   post-update.sample
|   pre-applypatch.sample
|   pre-commit.sample
|   pre-push.sample
|   pre-rebase.sample
|   prepare-commit-msg.sample
|   update.sample
|
+---info
|   exclude
|
+---objects
|   +---info
|   \---pack
\---refs
    +---heads
    \---tags

C:\Users\user\Desktop\proj01>
```



تقسیم بندی مخزن

Bare: یک بخش دارد و حاوی تمامی داده های
گامیت شده است

Non-bare: از سه بخش تشکیل شده است،

۱- فضای کاری **working directory**

۲- **Index**

۳- **commit space**

ایجاد فایل و اندیس کردن آن

MINGW32:/C/Users/user/Desktop/proj02

user@COMPUTER /C/Users/user/Desktop/proj02 (master)

\$ ls -all

total 22

drwxr-xr-x	3	user	Administ	0	Mar 12 03:03	.
dr-xr-xr-x	25	user	Administ	40960	Mar 12 03:03	..
drwxr-xr-x	9	user	Administ	4096	Mar 12 03:03	.git

user@COMPUTER /C/Users/user/Desktop/proj02 (master)

\$ touch readme.txt

user@COMPUTER /C/Users/user/Desktop/proj02 (master)

\$ git status
On branch master

Initial commit

Untracked files:

(use "git add <file>..." to include in what will be committed)

readme.txt

nothing added to commit but untracked files present (use "git add" to track)

user@COMPUTER /C/Users/user/Desktop/proj02 (master)

\$ git add readme.txt

user@COMPUTER /C/Users/user/Desktop/proj02 (master)

\$ git status
On branch master

Initial commit

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: readme.txt

user@COMPUTER /C/Users/user/Desktop/proj02 (master)

\$ _

کامیت کردن (ثبت تغییرات)



MINGW32:/C/Users/user/Desktop/proj02

user@COMPUTER /C/Users/user/Desktop/proj02 (master)

\$ git status

On branch master

Initial commit

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: readme.txt

user@COMPUTER /C/Users/user/Desktop/proj02 (master)

\$ git commit -m "added"

[master (root-commit) 4a2d184] added

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 readme.txt

user@COMPUTER /C/Users/user/Desktop/proj02 (master)

\$

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git log
```

```
commit 4a2d1842b4c3b25bf89f32afdcfee8dfe9bb30c0
```

```
Author: student1 <student1@iauet.ac.ir>
```

```
Date: Thu Mar 12 03:18:39 2015 +0330
```

```
added
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git status
```

```
On branch master
```

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

```
new file: help.html
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git show 4a2d184
```

```
commit 4a2d1842b4c3b25bf89f32afdcfee8dfe9bb30c0
```

```
Author: student1 <student1@iauet.ac.ir>
```

```
Date: Thu Mar 12 03:18:39 2015 +0330
```

```
added
```

```
diff --git a/readme.txt b/readme.txt
```

```
new file mode 100644
```

```
index 0000000..e69de29
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git branch
```

```
* master
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$
```

مشاهده کامیت و شاخه ها


```
user@COMPUTER /C/Users/user/Desktop/student01
$ git clone /C/Users/user/Desktop/proj02
Cloning into 'proj02'...
done.
```

```
user@COMPUTER /C/Users/user/Desktop/student01
$ ls all
ls: all: No such file or directory
```

```
user@COMPUTER /C/Users/user/Desktop/student01
$ ls -all
total 20
drwxr-xr-x   3 user   Administ   0 Mar 12 03:31 .
dr-xr-xr-x  26 user   Administ 40960 Mar 12 03:31 ..
drwxr-xr-x   4 user   Administ   0 Mar 12 03:31 proj02
```

```
user@COMPUTER /C/Users/user/Desktop/student01
$ git clone https://github.com/iahdasa/iauet-ce-93-2-931.git
Cloning into 'iauet-ce-93-2-931'...
remote: Counting objects: 17, done.
Unpacking objects: 47% (8/17)
```

```
user@COMPUTER /C/Users/user/Desktop/student01
$
```

```
user@COMPUTER /C/Users/user/Desktop/student01
$ git clone git://host.org/project.git
Cloning into 'project'...
```

```
user@COMPUTER /C/Users/user/Desktop/student01
$ git clone ssh://you@host.org/proj.git_
```

ایجاد مخزن از روی مخزن موجود





برگشت به آخرین وضعیت کامیت شده
`git reset - - hard` قابل برگشت نیست

`git revert head` آخرین کامیت را با یک کامیت
تازه خنثی میکند

ایجاد یک شاخه جدید
`git checkout -b new_branch_name`

انتقال نسخه خاص فایلی به `working directory`
`git checkout $id $file`

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git branch
```

```
* master
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git branch develop
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git branch
```

```
develop
```

```
* master
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git checkout -b test develop
```

```
Switched to a new branch 'test'
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (test)
```

```
$ git checkout -b qa
```

```
Switched to a new branch 'qa'
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (qa)
```

```
$ git checkout master
```

```
Switched to branch 'master'
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git branch
```

```
develop
```

```
* master
```

```
qa
```

```
test
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git branch -d qa
```

```
Deleted branch qa (was 6a44049).
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ _
```

عملیات روی شاخه ها

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ touch p.t
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git add p.t
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git commit -m "added p.t"
```

```
[master 358601e] added p.t
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
```

```
create mode 100644 p.t
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git checkout develop
```

```
Switched to branch 'develop'
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (develop)
```

```
$ touch d.t
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (develop)
```

```
$ git add d.t
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (develop)
```

```
$ git commit -m "added d.t"
```

```
[develop 82f1d05] added d.t
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
```

```
create mode 100644 d.t
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (develop)
```

```
$ git checkout master
```

```
Switched to branch 'master'
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$ git merge develop
```

```
Merge made by the 'recursive' strategy.
```

```
d.t | 0
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
```

```
create mode 100644 d.t
```

```
user@COMPUTER /C/Users/user/Desktop/proj02 (master)
```

```
$
```

عملیات روی شاخه ها



عملیات روی مخازن

اگر چنانچه از مخزنی **clone** شده باشد به مخزن مرجع **origin** گویند و برای گرفتن آخرین تغییرات آن مخزن دستور زیر را اجرا میکنیم:

git fetch

برای دریافت تغییرات مخزن **origin** و ادغام آنها در مخزن کنونی دستور زیر را اجرا میکنیم

git pull

برای ارسال تغییرات به مخزن **origin** دستور

git push