

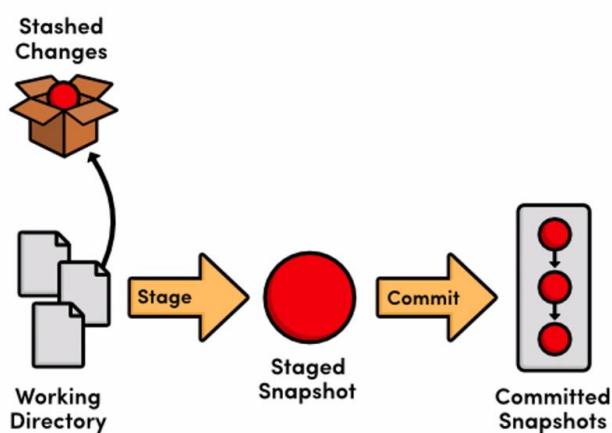
AGENDA

Today we will learn:

- What is stash
- When to use git stash
- How to stash changes
- How to manage multiple stashes
- How to apply stash
- Stash untracked files
- How to apply specific change from stash
- What is stack
- git stash list
- git stash pop VS git stash apply
- git stash branch
- git stash drop
- git stash clear



When to use git stash?



WHEN TO USE STASH

SOME OF THE CASES

- Temporarily put work aside
- Apply the same changes on multiple branches
- Create new branch based on the current changes later

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git switch -c TA0006_important_task
Switched to a new branch 'TA0006_important_task'

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0006_important_task)
$ nano webcontent/home.html |

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0006_important_task)
$ git status
On branch TA0006_important_task
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   webcontent/home.html

no changes added to commit (use "git add" and/or "git commit -a")

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0006_important_task)
$
```

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git switch -c TA0006_important_task
Switched to a new branch 'TA0006_important_task'

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0006_important_task)
$ nano webcontent/home.html |

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0006_important_task)
$ git status
On branch TA0006_important_task
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   webcontent/home.html

no changes added to commit (use "git add" and/or "git commit -a")

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0006_important_task)
$ git stash
Saved working directory and index state WIP on TA0006_important_task: e50bada login popup during
gin

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0006_important_task)
$ git status
On branch TA0006_important_task
nothing to commit, working tree clean

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0006_important_task)
$ |
```

```

MINGW64:/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0006_important_task)
$ git switch -
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (master)
$ git switch -c TA0007_super_important_task
Switched to a new branch 'TA0007_super_important_task'

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ nano webcontent/home.html

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash apply
On branch TA0007_super_important_task
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   webcontent/home.html

no changes added to commit (use "git add" and/or "git commit -a")

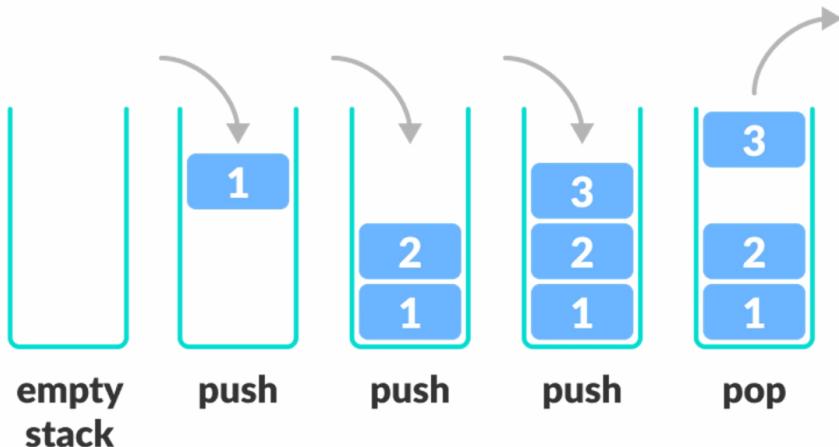
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ |

```

Udemy

Stack (LIFO principle)

LIFO – Last In First Out



List all stash files

```
MINGW64:/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash list
stash@{0}: WIP on TA0006_important_task: e50bada login popup during login
stash@{1}: WIP on TA0005_home_carousel: b44e250 carousel on the home page is styled
stash@{2}: WIP on master: e50bada login popup during login
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ |
```

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash list
stash@{0}: WIP on TA0006_important_task: e50bada login popup during login
stash@{1}: WIP on TA0005_home_carousel: b44e250 carousel on the home page is styled
stash@{2}: WIP on master: e50bada login popup during login

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash apply stash@{1}
error: Your local changes to the following files would be overwritten by merge:
    src/webcontent/home.html
Please commit your changes or stash them before you merge.
Aborting

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$
```

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash list
stash@{0}: WIP on TA0006_important_task: e50bada login popup during login
stash@{1}: WIP on TA0005_home_carousel: b44e250 carousel on the home page is styled
stash@{2}: WIP on master: e50bada login popup during login

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash apply stash@{1}
error: Your local changes to the following files would be overwritten by merge:
    src/webcontent/home.html
Please commit your changes or stash them before you merge.
Aborting

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git commit -a -m "commit"
[TA0007_super_important_task 204f4aa] commit
 1 file changed, 1 insertion(+)

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$
```

Some files are modified and have conflict, so remove the conflict

```
MINGW64:/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash apply stash@{1}
Auto-merging src/webcontent/home.html
CONFLICT (content): Merge conflict in src/webcontent/home.html
Removing src/styles/login.css
```

```
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git reset --hard HEAD
HEAD is now at 204f4aa commit
```

```
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$
```

Udemy

```
MINGW64:/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash apply stash@{1}
Auto-merging src/webcontent/home.html
CONFLICT (content): Merge conflict in src/webcontent/home.html
Removing src/styles/login.css
```

```
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$
```

Udemy

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash apply stash@{1}
Auto-merging src/webcontent/home.html
CONFLICT (content): Merge conflict in src/webcontent/home.html
Removing src/styles/login.css

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git reset --hard HEAD
HEAD is now at 204f4aa commit

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash list
stash@{0}: WIP on TA0006_important_task: e50bada login popup during login
stash@{1}: WIP on TA0005_home_carousel: b44e250 carousel on the home page is styled
stash@{2}: WIP on master: e50bada login popup during login

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ rm styles/login.css

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash save "login css is removed"
Saved working directory and index state on TA0007_super_important_task: login css is removed

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ |
```

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ rm styles/login.css

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash save "login css is removed"
Saved working directory and index state on TA0007_super_important_task: login css is removed

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash list
stash@{0}: On TA0007_super_important_task: login css is removed
stash@{1}: WIP on TA0006_important_task: e50bada login popup during login
stash@{2}: WIP on TA0005_home_carousel: b44e250 carousel on the home page is styled
stash@{3}: WIP on master: e50bada login popup during login

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash pop
Removing src/styles/login.css
On branch TA0007_super_important_task
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
      deleted:   styles/login.css

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (56c80e08fe61acffe468f21255c67edbfb9fac25)

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ |
```

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Saved working directory and index state On TA0007_super_important_task: login.css is removed

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash list
stash@{0}: On TA0007_super_important_task: login.css is removed
stash@{1}: WIP on TA0006_important_task: e50bada login popup during login
stash@{2}: WIP on TA0005_home_carousel: b44e250 carousel on the home page is styled
stash@{3}: WIP on master: e50bada login popup during login

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash pop
Removing src/styles/login.css
On branch TA0007_super_important_task
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    deleted:   styles/login.css

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (56c80e08fe61acffe468f21255c67edbfb9fac25)

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash list
stash@{0}: WIP on TA0006_important_task: e50bada login popup during login
stash@{1}: WIP on TA0005_home_carousel: b44e250 carousel on the home page is styled
stash@{2}: WIP on master: e50bada login popup during login

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ |
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git status
On branch TA0007_super_important_task
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    deleted:   styles/login.css

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

no changes added to commit (use "git add" and/or "git commit -a")

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash
Saved working directory and index state WIP on TA0007_super_important_task: 204f4aa commit

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git status
On branch TA0007_super_important_task
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    SomeImportantFile.java

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

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$
```

'u' for untracked files

```
MINGW64:/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash -u
Saved working directory and index state WIP on TA0007_super_important_task: 204f4aa commit
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git status
on branch TA0007_super_important_task
nothing to commit, working tree clean
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$
```

Create new branch from stash

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash -u
Saved working directory and index state WIP on TA0007_super_important_task: 204f4aa commit

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git status
On branch TA0007_super_important_task
nothing to commit, working tree clean

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash branch TA0007_new
Switched to a new branch 'TA0007_new'
Already up to date!
On branch TA0007_new
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    SomeImportantFile.java

nothing added to commit but untracked files present (use "git add" to track)
Dropped refs/stash@{0} (c0497165cdc5cae1d3e601783d6b20b6fb25503e)

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_new)
$ |
```

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git status
On branch TA0007_super_important_task
nothing to commit, working tree clean

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash branch TA0007_new
Switched to a new branch 'TA0007_new'
Already up to date!
On branch TA0007_new
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    SomeImportantFile.java

nothing added to commit but untracked files present (use "git add" to track)
Dropped refs/stash@{0} (c0497165cdc5cae1d3e601783d6b20b6fb25503e)

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_new)
$ git stash drop stash@{0}
Dropped stash@{0} (d7c7c3076370ec62cc638f523d857f635375be37)

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_new)
$ git stash list
stash@{0}: WIP on TA0006_important_task: e50bada login popup during login
stash@{1}: WIP on TA0005_home_carousel: b44e250 carousel on the home page is styled
stash@{2}: WIP on master: e50bada login popup during login

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_new)
$ |
```

Clear all stash

```
MINGW64/c/Users/Andrii_Piatakha/Desktop/Lern IT - Git/src
nothing to commit, working tree clean

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_super_important_task)
$ git stash branch TA0007_new
Switched to a new branch 'TA0007_new'
Already up to date!
On branch TA0007_new
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    SomeImportantFile.java

nothing added to commit but untracked files present (use "git add" to track)
Dropped refs/stash@{0} (c0497165cdc5cae1d3e601783d6b20b6fb25503e)

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_new)
$ git stash drop stash@{0}
Dropped stash@{0} (d7c7c3076370ec62cc638f523d857f635375be37)

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_new)
$ git stash list
stash@{0}: WIP on TA0006_important_task: e50bada login popup during login
stash@{1}: WIP on TA0005_home_carousel: b44e250 carousel on the home page is styled
stash@{2}: WIP on master: e50bada login popup during login

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_new)
$ git stash clear

Andrii_Piatakha@EPUAKHAW1357 MINGW64 ~/Desktop/Lern IT - Git/src (TA0007_new)
$
```