

# Git Stash & .gitignore

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## What is Git Stash?

`git stash` is used to **temporarily save (shelve)** your uncommitted changes so you can work on something else and come back later.

It saves changes from:

- Working Directory
- Staging Area (index)

And makes your branch **clean**.

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## Why do we use Git Stash?

- You want to switch branches but have unfinished work
- Urgent bug fix needed on another branch
- Don't want to commit half-done code
- Avoid losing local changes

**Stash = temporary storage for code**

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## Basic Git Stash Commands

### 1. `git stash`

```
git stash
```

✓ Saves modified + staged files   ✓ Cleans working directory

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### 2. `git stash push -m "message"`

```
git stash push -m "login page changes"
```

✓ Stash with a custom message (recommended)

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### 3. `git stash list`

```
git stash list
```

Shows all stashed changes

Example:

```
stash@{0}: On main: login page changes  
stash@{1}: On dev: css update
```

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#### 4. `git stash apply`

```
git stash apply
```

✓ Applies **latest stash** ✓ Stash remains in list

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#### 5. `git stash apply stash@{1}`

```
git stash apply stash@{1}
```

✓ Apply specific stash

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#### 6. `git stash pop`

```
git stash pop
```

✓ Apply latest stash ✓ **Removes** it from stash list

Most commonly used

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#### 7. `git stash drop`

```
git stash drop stash@{0}
```

✗ Deletes a specific stash

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#### 8. `git stash clear`

```
git stash clear
```

Deletes **all stashes** (dangerous )

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## 9.Stash including untracked files

```
git stash -u
```

✓ Saves untracked files also

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## 10.Stash including ignored files

```
git stash -a
```

Saves **all files** (tracked + untracked + ignored)

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# .gitignore

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## What is .gitignore?

**.gitignore** is a file used to **tell Git which files/folders should NOT be tracked or pushed** to the repository.

Common examples:

- Passwords
  - Build files
  - Logs
  - Node modules
  - Environment files
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## Why we use .gitignore?

- Security (hide secrets)
  - Avoid unnecessary files
  - Reduce repo size
  - Keep repo clean
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## .gitignore File Location

🔔 Create `.gitignore` in **root directory** of project

```
touch .gitignore
```

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## Common .gitignore Examples

### Ignore files

```
cred.txt  
secrete.txt
```

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### Ignore folders

```
node_modules/  
dist/  
build/
```

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### Ignore all .log files

```
*.log
```

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### Ignore OS files

```
.DS_Store  
Thumbs.db
```

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### Ignore compiled files

```
*.class  
*.exe  
*.out
```

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## Important Rules of .gitignore

`.gitignore` **does NOT work on already tracked files**

To remove tracked file:

```
git rm --cached file_name
git commit -m "Removed tracked file"
```

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## Git Stash vs Commit

Git Stash	Git Commit
Temporary	Permanent
Local only	Saved in repo
No history	Full history
Used for quick switch	Used for version control

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