

.gitignore Cheat Sheet

Contents

- **What is `.gitignore`?**
 - **Basic Syntax**
 - **Clearing Git Ignore Cache**
 - **Examples of Common Patterns**
 - **Useful Tips**
-

What is `.gitignore`?

A `.gitignore` file specifies intentionally untracked files that Git should ignore. This helps prevent sensitive, temporary, or unnecessary files from being committed to the repository.

Basic Syntax

- **Comment lines:** Use `#` at the start of the line.

Example:

```
# This is a comment
```

- **Blank lines:** Ignored and used for readability.

Ignore Patterns

1. Exact match:

To ignore a specific file:

```
file.txt
```

2. Wildcard (`*`):

Matches zero or more characters.

```
*.log    # Ignore all .log files
temp*    # Ignore files starting with "temp"
```

3. Directories:

To ignore a directory and its contents, add a trailing `/`.

```
/cache/ # Ignore "cache" directory
```

4. Negation (!):

To unignore files or directories.

```
!important.log
```

5. Patterns with paths:

Specify relative paths for more precise ignores.

```
/config/settings.json # Ignore only in the root
**/debug.log          # Ignore in all subdirectories
```

Clearing Git Ignore Cache

Why Clear the Git Ignore Cache?

If you modify the `.gitignore` file to ignore files that are already tracked by Git, those files will remain in the repository until you remove them from tracking.

Steps to Clear the Cache

1. Remove the files from tracking (without deleting them):

```
git rm -r --cached .
```

2. Add the modified `.gitignore` to the staging area:

```
git add .gitignore
```

3. Commit the changes:

```
git commit -m "Updated .gitignore and cleared cache"
```

Now Git will respect the `.gitignore` rules and stop tracking the ignored files.

Examples of Common Patterns

Operating System Files

- macOS:

```
.DS_Store  
.AppleDouble  
.LSOverride
```

- Windows:

```
Thumbs.db  
ehthumbs.db  
Desktop.ini
```

- Linux:

```
*~  
.nfs*
```

Programming Languages

Python

```
*.pyc  
*.pyo  
__pycache__/  
.env  
.venv/
```

Node.js

```
node_modules/  
npm-debug.log*  
yarn-debug.log*  
yarn-error.log*  
.env
```

Java

```
*.class  
*.jar  
*.war  
*.ear  
*.iml  
```shell  

C/C++

```shell  
*.o  
*.out  
*.so  
*.a  
*.d
```

Ruby

```
*.gem  
.log  
tmp/
```

Go

```
*.exe  
*.test  
*.out
```

Rust

```
*.rs.bk  
target/  
Cargo.lock
```

Frameworks and Tools

Git

```
.git/
```

IDEs

- VSCode:

```
.vscode/
```

- IntelliJ IDEA:

```
.idea/  
*.iml
```

- Eclipse:

```
.classpath  
.project  
.settings/  
bin/
```

Logs and Temporary Files

```
*.log  
*.tmp  
*.swp  
*.bak  
*.old  
*~lock.*
```

Ignoring Files in Specific Directories

- Ignore all `.log` files in the `/logs` directory:

```
logs/*.log
```

- Ignore everything in the `/temp` directory except `.keep`:

```
temp/  
!temp/.keep
```

Useful Tips

1. Check ignored files:

View which files are being ignored:

```
git status --ignored
```

2. Exclude `.gitignore` itself:

Add this to `.gitignore`:

```
.gitignore
```

3. Use global `.gitignore`:

Configure a global ignore file for your user:

```
git config --global core.excludesfile ~/.gitignore_global
```

Example content of `~/.gitignore_global`:

```
*.bak  
*.swp
```