

# Some Git Basics

A few useful details  
including how to use `.gitignore`

# What to Include in a Repo?

Files you should include are:

1. source code
2. design and notes, such as an architecture notebook, UML diagrams
3. documentation
4. (optional) project plans and project documents

# What NOT to save in a repo.

In a Git repository you should not save:

1. compiler output
2. anything you can recreate with a build tool. But OK to save "release" distributions or executable.
3. virtual environments, such as Python virtualenv.  
can be recreated using a `requirements.txt` file
4. IDE or editor project files, such as `.vscode/` or `.idea/`
5. temporary files and log files

# Examples what not to save

```
__pycache__  
*.py[cod]    this means *.pyo or *.pyc or *.pyd  
.coverage   output of code coverage app  
*.log  
# IntelliJ files  
.idea/  
*.iml  
# Eclipse, Pydev, and VSCode files  
.settings  
.project/  
.vscode/  
# Virtual env files (common directory names)  
venv/  
env/
```

# .gitignore

To avoid accidentally adding unwanted files a repository, add a file named `.gitignore` to the top directory of your repo. This is common practice.

`.gitignore` contains names or *patterns* for files and directories that git should ignore -- that is, never add to a repository (unless you force it to).

See next slide for example.

Github can create a `.gitignore` for you when you create a repository! This is a good way to see an example of what you might put in `.gitignore`.

# .gitignore for a Python project

Write one filename, directory name, or pattern to match per line. Lines beginning with # are comments. Blank lines are ignored.

```
__pycache__  
*.py[co]  
.coverage  
htmlcov/  
*.log  
# IntelliJ files  
.idea/  
*.iml  
# Eclipse, Pydev, and VSCode files  
.settings  
.project/  
.vscode/  
# Virtual env files (common directory names)  
venv/  
env/
```

# Extra ignores for a Django project

Write one filename, directory name, or pattern to match per line. Lines beginning with # are comments. Blank lines are ignored.

```
local_settings.py
db.sqlite3
/site
# configuration data in external files
# (may be confidential) used by python-decouple
.env
settings.ini
config.sh
```