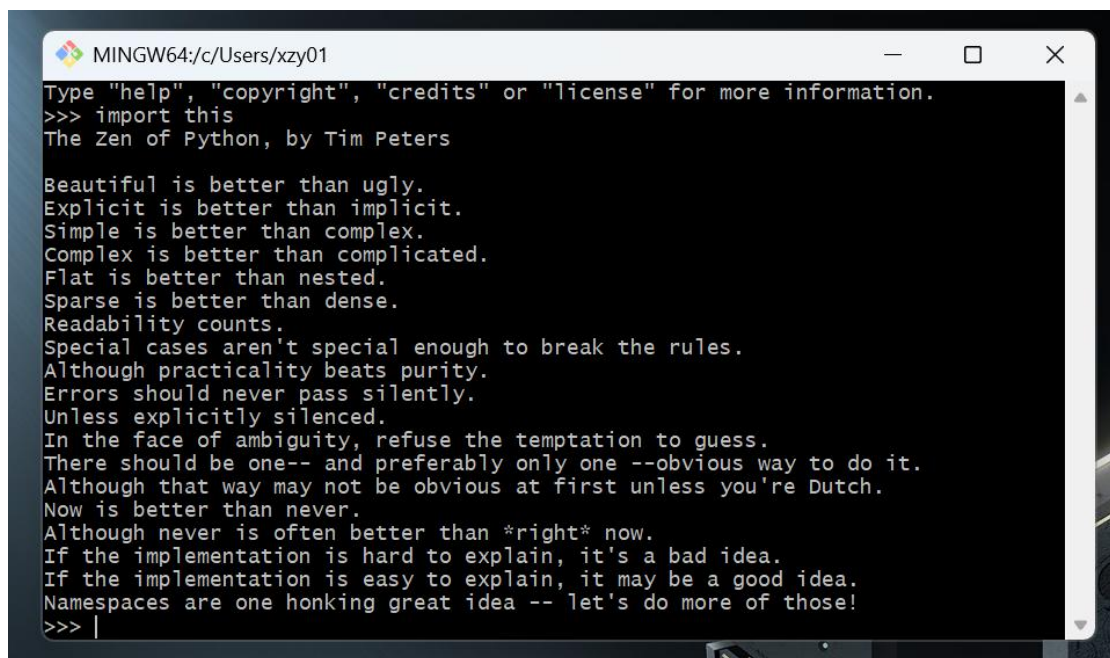


Anaconda 是一个广泛用于科学计算、数据分析和机器学习的开源 Python 和 R 编程语言的发行版。它集成了大量常用的科学计算和数据处理库，同时提供了便捷的包管理和环境管理功能，以下从多个方面详细介绍：

主要特点

1. **丰富的科学计算库**：包含了超过 1500 个科学包及其依赖项，如 NumPy（用于高效的数值计算）、Pandas（用于数据处理和分析）、Matplotlib（用于数据可视化）、Scikit - learn（用于机器学习）等，无需逐个手动安装这些库，大大节省了时间和精力。
2. **强大的包管理系统**：Anaconda 使用 `conda` 作为包管理器，它可以帮助用户轻松地安装、更新和卸载软件包。用户可以通过简单的命令在不同版本的包之间进行切换，并且能够自动处理包之间的依赖关系，避免了因依赖冲突导致的安装失败问题。
3. **便捷的环境管理**：可以创建多个独立的 Python 环境，每个环境可以有不同的 Python 版本和安装的包。这对于开发不同项目非常有用，因为不同项目可能依赖于不同版本的库，使用环境管理可以避免版本冲突。



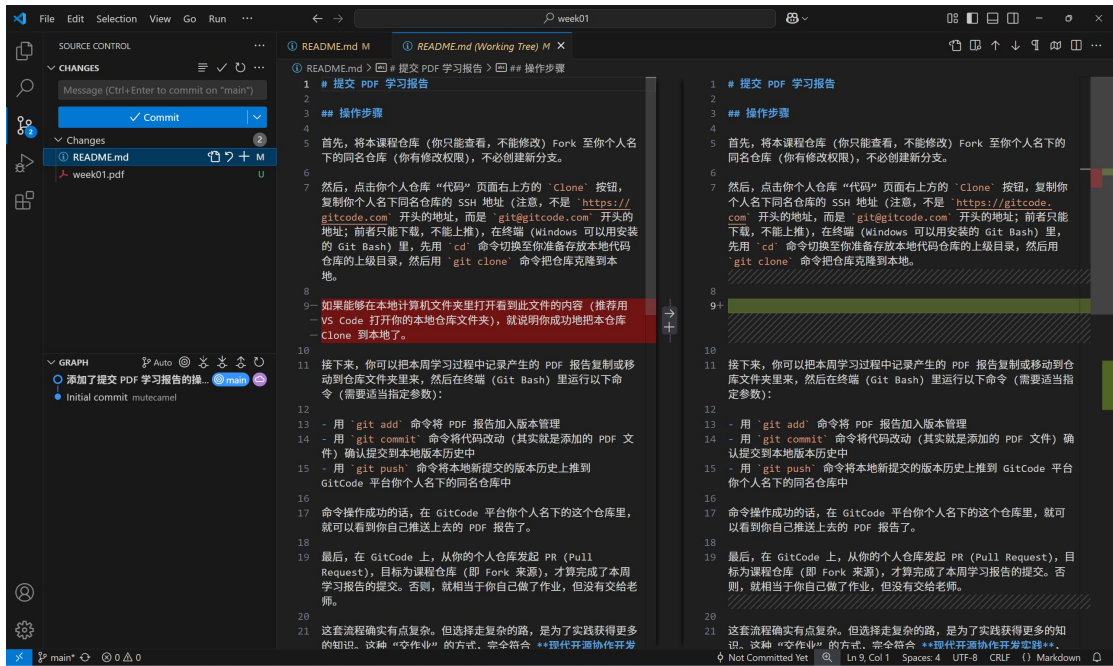
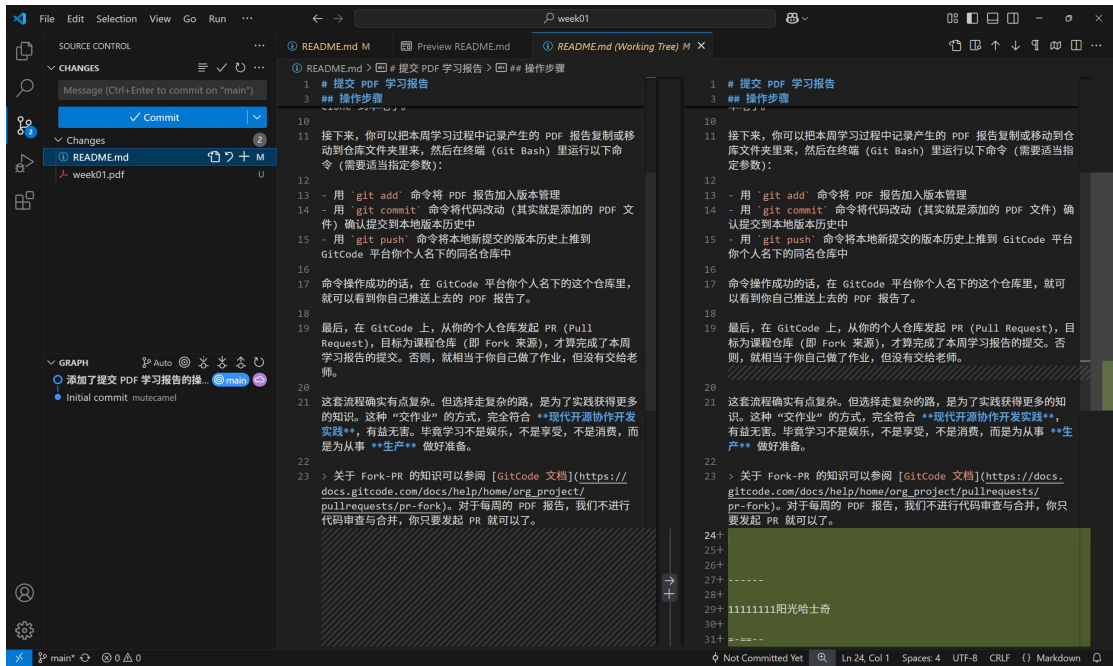
```
MINGW64:/c/Users/xzy01
Type "help", "copyright", "credits" or "license" for more information.
>>> import this
The Zen of Python, by Tim Peters

Beautiful is better than ugly.
Explicit is better than implicit.
Simple is better than complex.
Complex is better than complicated.
Flat is better than nested.
Sparse is better than dense.
Readability counts.
Special cases aren't special enough to break the rules.
Although practicality beats purity.
Errors should never pass silently.
Unless explicitly silenced.
In the face of ambiguity, refuse the temptation to guess.
There should be one-- and preferably only one --obvious way to do it.
Although that way may not be obvious at first unless you're Dutch.
Now is better than never.
Although never is often better than *right* now.
If the implementation is hard to explain, it's a bad idea.
If the implementation is easy to explain, it may be a good idea.
Namespaces are one honking great idea -- let's do more of those!
>>> |
```



```
MINGW64/c/Users/xzy01/.ssh
|  = 0 0.00 = .0. |
| + ..0..0 +. |
| o. .E .:=+o |
+----[SHA256]-----+
xzy01@xzy MINGW64 ~/repo
$ cd
xzy01@xzy MINGW64 ~
$ pwd
/c/Users/xzy01
xzy01@xzy MINGW64 ~
$ cd . ssh
bash: cd: too many arguments
xzy01@xzy MINGW64 ~
$ cd .ssh
xzy01@xzy MINGW64 ~/.ssh
$ ls
id_ed25519 id_ed25519.pub
xzy01@xzy MINGW64 ~/.ssh
$ cat id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIP7W5WcdV+GtPvchNwz3+ZOYHirh7Q1Uzziz/9M33Bvp xzy01411552@163.com
xzy01@xzy MINGW64 ~/.ssh
$ ssh -T git@gitcode.com
The authenticity of host 'gitcode.com (116.205.2.91)' can't be established.
RSA key fingerprint is SHA256:aTlsy+4ARMC7nWyy5eKIqUkotk8yv7Jd+XXoP4EXj1Y.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'gitcode.com' (RSA) to the list of known hosts.
remote: Welcome to GitCode, STars1552
xzy01@xzy MINGW64 ~/.ssh
$ ssh -T git@gitcode.com
remote: Welcome to GitCode, STars1552
xzy01@xzy MINGW64 ~/.ssh
$
```

```
MINGW64/c/Users/xzy01
xzy01@xzy MINGW64 ~
$ which conda
/c/Users/xzy01/anaconda3/Scripts/conda
xzy01@xzy MINGW64 ~
$ echo $PATH
/c/Users/xzy01/bin:/mingw64/bin:/usr/local/bin:/usr/bin:/bin:/mingw64/bin:/usr/bin:/c/Users/xzy01/bin:/
dows/System32/Wbem:/c/Windows/System32/WindowsPowerShell/v1.0:/c/windows/System32/OpenSSH:/c/Program F
ommon:/c/Program Files/NVIDIA Corporation/NVIDIA NvDLISR:/e/runtime/win64:/e/bin:/c/WINDOWS/system32:/
/WINDOWS/System32/WindowsPowerShell/v1.0:/c/WINDOWS/System32/OpenSSH:/cmd:/mingw64/bin:/usr/bin:/c/Use
conda3/Library/mingw-w64/bin:/c/Users/xzy01/anaconda3/Library/usr/bin:/c/Users/xzy01/anaconda3/Library
:/c/Users/xzy01/AppData/Local/Microsoft/WindowsApps:/e/工作/Microsoft VS Code/bin:/usr/bin/vendor_perl
xzy01@xzy MINGW64 ~
$ python
Python 3.12.7 | packaged by Anaconda, Inc. | (main, Oct 4 2024, 13:17:27) [MSC v.1929 64 bit (AMD64)]
on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> which python
File "<stdin>", line 1
      which python
      ^^^^^
SyntaxError: invalid syntax
>>> |
```




```

MINGW64/c/Users/xzy01/repo/week01
$ ll
total 804
-rw-r--r-- 1 xzy01 197609 18805 Mar  9 19:57 LICENSE
-rw-r--r-- 1 xzy01 197609 2106 Mar  9 20:32 README.md
-rw-r--r-- 1 xzy01 197609 797529 Mar  9 20:24 学习报告.pdf

xzy01@xzy MINGW64 ~/repo/week01 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        "\345\255\246\344\271\240\346\212\245\345\221\212.pdf"

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

xzy01@xzy MINGW64 ~/repo/week01 (main)
$ git config --global core.quotePath false

xzy01@xzy MINGW64 ~/repo/week01 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        学习报告.pdf

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

xzy01@xzy MINGW64 ~/repo/week01 (main)
$

```

```

xzy01@xzy MINGW64 ~/repo/week01 (main)
$ git commit -m"添加了学习报告，测试性地修改了 README"
[main 36a7c60] 添加了学习报告，测试性地修改了 README
2 files changed, 9 insertions(+), 1 deletion(-)
create mode 100644 学习报告.pdf

xzy01@xzy MINGW64 ~/repo/week01 (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

xzy01@xzy MINGW64 ~/repo/week01 (main)
$ git log
commit 36a7c60ee8c184377c6e456c8e7d29c072045dad (HEAD -> main)
Author: STars1552 <STars1552@noreply.gitcode.com>
Date:   Sun Mar 9 20:49:56 2025 +0800

    添加了学习报告，测试性地修改了 README

commit e4314c391a769f545251081dd761588bf2c10cbc (origin/main, origin/HEAD)
Author: Qiang Gao <mutecamel@gmail.com>
Date:   Tue Mar 4 22:06:53 2025 +0800

    添加了提交 PDF 学习报告的操作步骤

commit c4a2e21c40fffec7ca7b7a76d7d4294368c5ac9e
Author: mutecamel <mutecamel@gmail.com>
Date:   Mon Feb 24 21:50:52 2025 +0800

    Initial commit

```

- 用 `git add` 命令将 PDF 报告加入版本管理
- 用 `git commit` 命令将代码改动 (其实就是添加的 PDF 文件) 确认提交到本地版本历史中
- 用 `git push` 命令将本地新提交的版本历史上推到 GitCode 平台你个人名下的同名仓库中