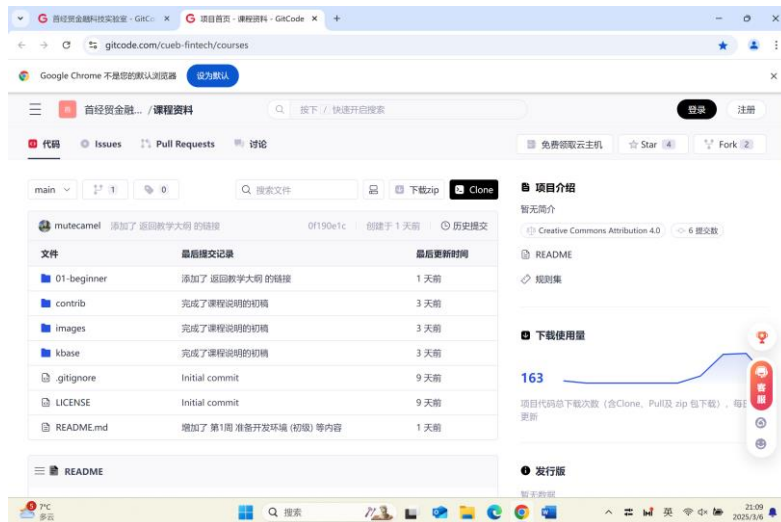
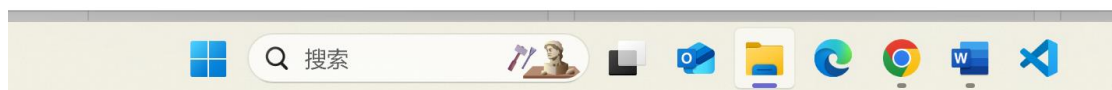


# 第一周学习报告

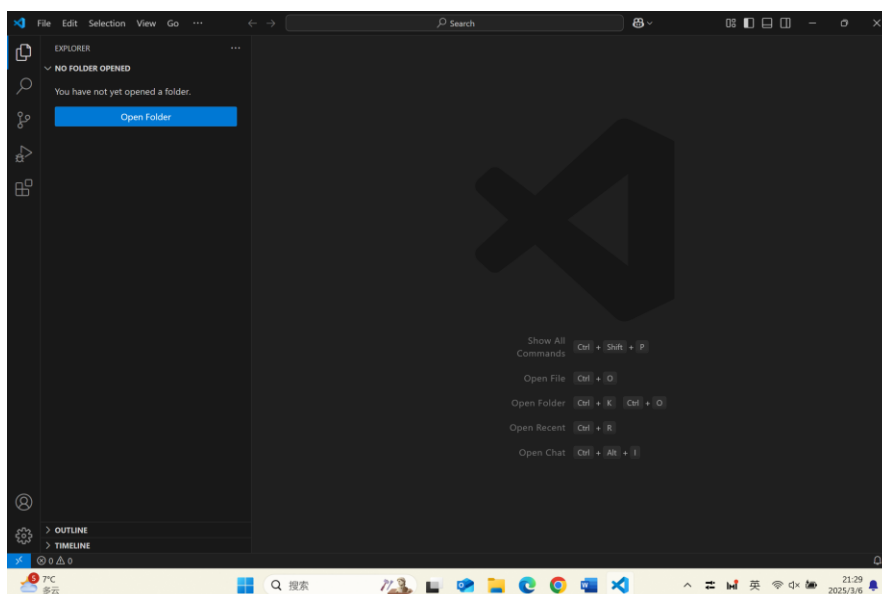
- 收藏课程资料网页



- 下载 VS Code 并固定任务栏

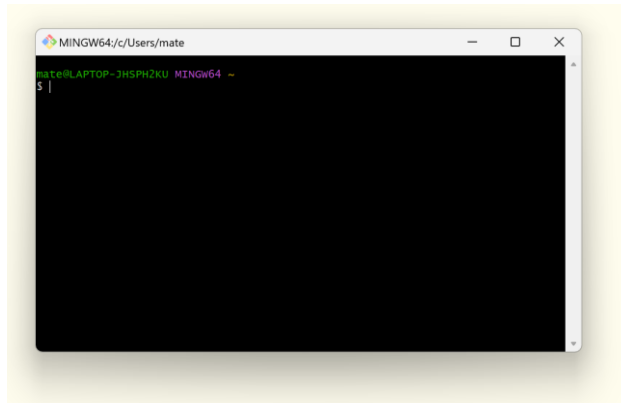


- VS code 页面截图

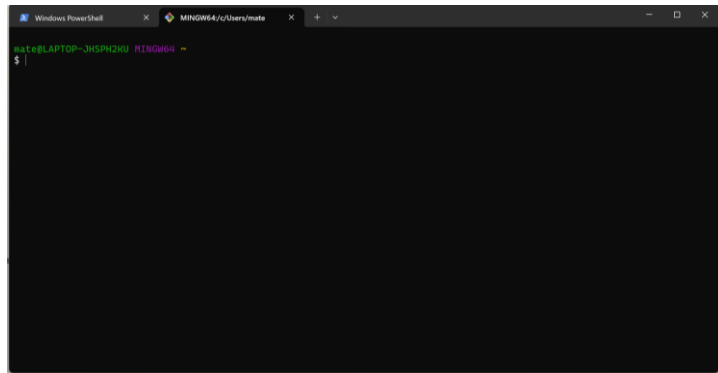


了解虚拟机，在一个孤立隔离的环境里，进行实验性质的内容，电脑配置高可以用虚拟机。了解微软商店，之前没用过，下载 Windows terminal 终端。新仓库叫 main。通过本课程学会用代码完成批量自动化任务。SSH 密钥是加密通讯的工具，在代码协作中使用。

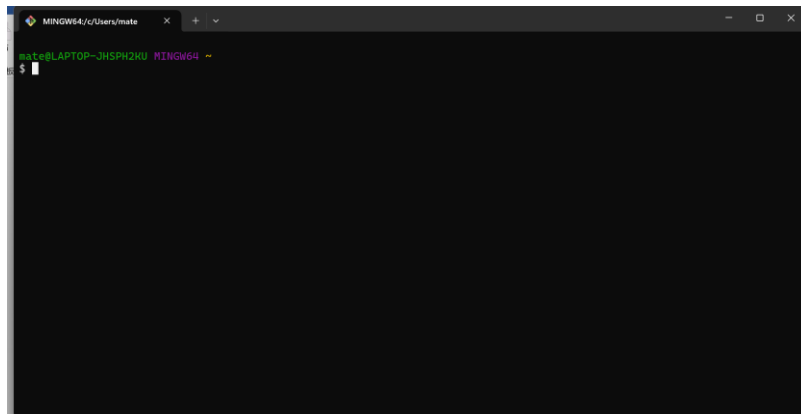
- 下载 git 安装完成 git 页面截图



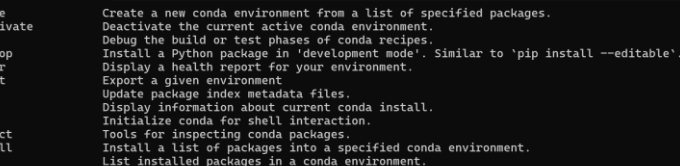
- windows 终端-git 页面截图



- 设置终端直接启动 git bash 更改光标



- Anaconda 是 Python 解释器的发行版，方便用户快速搭建开发环境，简化了 Python 包管理与环境配置的复杂性。安装 Anaconda 成功，在 terminal 中打开，打开 PATH 环境变量。



```

MINGW64~\c\Users\mate
conda
  create          Create a new conda environment from a list of specified packages.
  deactivate      Deactivate the current active conda environment.
  debug           Debug the build or test phases of conda recipes.
  develop         Install a Python package in 'development mode'. Similar to 'pip install --editable'.
  doctor          Display a health report for your environment.
  export          Export a given environment
  index           Update package index metadata files.
  info            Display information about current conda install.
  init            Initialize conda for shell interaction.
  inspect         Tools for inspecting conda packages.
  install         Install a list of packages into a specified conda environment.
  list            List installed packages in a conda environment.
  metapackage     Specialty tool for generating conda metapackage.
  notices         Retrieve latest channel notifications.
  pack            See 'conda pack --help'.
  package         Create low-level conda packages. (EXPERIMENTAL)
  remove (uninstall) Remove a list of packages from a specified conda environment.
  rename          Rename an existing environment.
  render          Expand a conda recipe into a platform-specific recipe.
  repo            See 'conda repo --help'.
  repodata        Advanced search for repodata.
  run             Run an executable in a conda environment.
  search          Search for packages and display associated information using the MatchSpec format.
  server          See 'conda server --help'.
  skeleton        Generate boilerplate conda recipes.
  token           See 'conda token --help'.
  update (upgrade) Update conda packages to the latest compatible version.

mate@LAPTOP-JHSPH2KU MINGW64 ~
$

```

```
mate@LAPTOP-JHSPH2KU MINGW64 ~  
$ echo $PATH  
$ /Users/mate/bin:/mingw64/bin:/usr/local/bin:/usr/bin:/bin:/mingw64/bin:/usr/bin:/c/Users/mate/bin:/c/Windows/System32/HWAudioDriverLibs:/c/Windows/system32:/c/Windows:/c/Windows/System32/Wbem:/c/Windows/System32/WindowsPowerShell/v1.0:/c/Windows/System32/OpenSSH:/c/Windows/system32/config/systemprofile/AppData/Local/Microsoft/WindowsApps:/c/WINDOWS/system32:/c/WINDOWS:/c/WINDOWS/System32/Wbem:/c/WINDOWS/System32/WindowsPowerShell/v1.0:/c/WINDOWS/System32/OpenSSH:/d/Program Files/MATLAB/R2024a/runtime/win64:/d/Program Files/MATLAB/R2024a/bin:/cmd:/mingw64/bin:/usr/bin:/d/anaconda:/d/anaconda/Library/mingw-w64/bin:/d/anaconda/Library/usr/bin:/d/anaconda/Library/bin:/d/anaconda/Scripts:/c/Users/mate/AppData/Local/Microsoft/WindowsApps:/d/Microsoft VS Code/bin:/usr/bin/vendor_perl:/usr/bin/core_perl  
  
mate@LAPTOP-JHSPH2KU MINGW64 ~  
$
```

```

MINGW64~/c/Users/mate x  ~  x
a/Library/mingw-w64/bin:/d:/anaconda/Library/usr/bin:/d:/anaconda/Library/bin:/d:/anaconda/Scripts:/c/Users/mate/AppData/Local/Microsoft/WindowsApps:/d:/Microsoft VS Code/bin:/usr/bin/vendor_perl:/usr/bin/core_perl

mate@LAPTOP-JH5PH2MU 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.
>>> 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 practically 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!
>>>

```

- ## ● 学习 ipython 与 python 区别

```
MINGW64 ~/c/Users/mate x + -
mate@LAPTOP-3HSPH2JKU 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.
>>> quit()

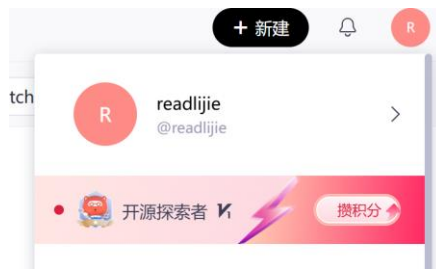
mate@LAPTOP-3HSPH2JKU MINGW64 -
$ ipython
Python 3.12.7 | packaged by Anaconda, Inc. | (main, Oct 4 2024, 13:17:27) [MSC v.1929 64 bit (AMD64)]
Type "copyright", "credits" or "license()" for more information
Python 3.27.0 -- An enhanced Interactive Python. Type "?" for help.

In [1]: print('hello')
hello

In [2]:
Do you really want to exit ([y]/n)? y

mate@LAPTOP-3HSPH2JKU MINGW64 -
$
```

- 注册账号



- 设置 SSH 密钥，在个人信息中设置公钥。SSH 密钥是一种基于非对称加密技术的身份验证方式，用于安全地登录远程服务器，代替传统的密码验证，提高登录的安全性和便捷性。右键粘贴!!! 密码分公钥和私钥，公钥加密，私钥解密，是非对称的加密技术。

```
mingw64/c/Users/mate/ssh x + -
[0+...o .. +]
[B. o.B... . E.]
[+... 0.+S = +]
. 0 0 . =.0 + =
. . 0 . . 0
. . . . .
. . 0 . .
. . 0 . .
[SHA256]-----

mate@LAPTOP-JHSPH2KU MINGW64 ~/repo
$ cd

mate@LAPTOP-JHSPH2KU MINGW64 ~
$ pwd
/c/Users/mate

mate@LAPTOP-JHSPH2KU MINGW64 ~
$ cd .ssh

mate@LAPTOP-JHSPH2KU MINGW64 ~/.ssh
$ ls
id_ed25519 id_ed25519.pub

mate@LAPTOP-JHSPH2KU MINGW64 ~/.ssh
$ cat id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAICsgwRH3ZE8wQqDYqwrpH76pNvLB0NMGASXURBiIA
AW lmql8546235246@outlook.com

mate@LAPTOP-JHSPH2KU MINGW64 ~/.ssh
$
```

SSH 公钥

+ SSH 公钥

readlijie

SSH公钥: ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAICsgwRH3ZE8wQqDYqwrpH76pNvLB0NMGASXURBiIAAW lmql8546235246...

过期时间: 永不过期

使用情况: 从未被使用

创建时间: 刚刚

- 将公钥添加到 git code 里面，可以进行通讯。

```
mate@LAPTOP-JHSPH2KU MINGW64 ~/.ssh
$ cat id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAICsgwRH3ZE8wQqDYqwrpH76pNvLB0NMGASXURBiIA
AW lmql8546235246@outlook.com

mate@LAPTOP-JHSPH2KU 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, readlijie

mate@LAPTOP-JHSPH2KU MINGW64 ~/.ssh
$ ssh -T git@gitcode.com
remote: Welcome to GitCode, readlijie

mate@LAPTOP-JHSPH2KU MINGW64 ~/.ssh
$
```

- Fork 代码协作，开源协作。创建 Fork 不做修改，与上游相同。完成 git 全局配置。更改文件位置，完成克隆。

```
mate@LAPTOP-JHSPH2KU MINGW64 ~/.ssh
$ git config --global user.name readlijie
git config --global user.email readlijie@noreply.gitcode.com
```

```
mate@LAPTOP-JHSPH2KU MINGW64 ~/.ssh
$ pwd
/c/Users/mate/.ssh

mate@LAPTOP-JHSPH2KU MINGW64 ~/.ssh
$ cd

mate@LAPTOP-JHSPH2KU MINGW64 ~
$ pwd
/c/Users/mate

mate@LAPTOP-JHSPH2KU MINGW64 ~
$ cd repo

mate@LAPTOP-JHSPH2KU MINGW64 ~/repo
$ pwd
/c/Users/mate/repo
```

```
mate@LAPTOP-JHSPH2KU MINGW64 ~/repo
$ git clone git@gitcode.com:readlijie/week01.git
Cloning into 'week01'...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 7 (delta 0), reused 7 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (7/7), 8.75 KiB | 4.38 MiB/s, done.

mate@LAPTOP-JHSPH2KU MINGW64 ~/repo
$ ll
total 0
-rw-r--r-- 1 mate 197121 0 3月 7 21:04 script1.py
drwxr-xr-x 1 mate 197121 0 3月 7 22:23 week01/

mate@LAPTOP-JHSPH2KU MINGW64 ~/repo
$ code week01/

mate@LAPTOP-JHSPH2KU MINGW64 ~/repo
$
```

用 VS 编辑器打开 week01 目录。 \$ code week01/

