

## Week03 学习笔记

### 寻找 conda 路径:

```
MINGW64~/c/Users/Lenovo
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'.
repoquery       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.

Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ which conda
/d/Anaconda/Scripts/conda

Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$
```

### Conda init --help 命令:

```
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda init --help
usage: conda-script.py init [-h] [--all] [--user] [--no-user] [--system] [--reverse] [--anaconda-prompt] [--json] [-v] [-q] [-d]
                             [SHELLS ...]

Initialize conda for shell interaction.

positional arguments:
  SHELLS                One or more shells to be initialized. If not given, the default value is 'bash' on unix and 'cmd.exe' &
                        'powershell' on Windows. Use the '--all' flag to initialize all shells. Available shells: ['bash', 'cmd.exe',
                        'fish', 'powershell', 'tcsh', 'xonsh', 'zsh']

options:
  -h, --help            Show this help message and exit.
  --all                Initialize all currently available shells.
  --anaconda-prompt     Add an 'Anaconda Prompt' icon to your desktop.
  -d, --dry-run         Only display what would have been done.

setup type:
  --user              Initialize conda for the current user (default).
  --no-user           Don't initialize conda for the current user.
  --system            Initialize conda for all users on the system.
  --reverse           Undo effects of last conda init.

Output, Prompt, and Flow Control Options:
  --json              Report all output as json. Suitable for using conda programmatically.
  -v, --verbose       Can be used multiple times. Once for detailed output, twice for INFO logging, thrice for DEBUG logging, four
                        times for TRACE logging.
  -q, --quiet         Do not display progress bar.
```

### Conda init bash 命令:

```

Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda init bash
no change      D:\Anaconda\Scripts\conda.exe
no change      D:\Anaconda\Scripts\conda-env.exe
no change      D:\Anaconda\Scripts\conda-script.py
no change      D:\Anaconda\Scripts\conda-env-script.py
no change      D:\Anaconda\condabin\conda.bat
no change      D:\Anaconda\Library\bin\conda.bat
no change      D:\Anaconda\condabin\_conda_activate.bat
no change      D:\Anaconda\condabin\rename_tmp.bat
no change      D:\Anaconda\condabin\conda_auto_activate.bat
no change      D:\Anaconda\condabin\conda_hook.bat
no change      D:\Anaconda\Scripts\activate.bat
no change      D:\Anaconda\condabin\activate.bat
no change      D:\Anaconda\condabin\deactivate.bat
modified       D:\Anaconda\Scripts\activate
modified       D:\Anaconda\Scripts\deactivate
modified       D:\Anaconda\etc\profile.d\conda.sh
modified       D:\Anaconda\etc\fish\conf.d\conda.fish
no change      D:\Anaconda\shell\condabin\Conda.ps1
modified       D:\Anaconda\shell\condabin\conda-hook.ps1
no change      D:\Anaconda\Lib\site-packages\xontrib\conda.xsh
modified       D:\Anaconda\etc\profile.d\conda.csh
modified       C:\Users\Lenovo\.bash_profile

==> For changes to take effect, close and re-open your current shell. <==

```

1. 在自己的终端 (比如 Git Bash、Zsh 等) 配置好 Conda Init, 使得启动终端后, 在提示符 (比如 \$、%) 前能够看到 (base):

```

(base) Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$

```

使用 `conda info` 命令查看本机 Conda 的配置信息:

```
(base) Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda info

active environment : base
active env location : D:\Anaconda
shell level        : 1
user config file    : C:\Users\Lenovo\.condarc
populated config files : D:\Anaconda\.condarc
conda version       : 24.9.2
conda-build version  : 24.9.0
python version      : 3.12.7.final.0
solver              : libmamba (default)
virtual packages     : __archspec=1=x86_64_v4
                     __conda=24.9.2=0
                     __cuda=11.2=0
                     __win=0=0
base environment     : D:\Anaconda (writable)
conda av data dir    : D:\Anaconda\etc\conda
conda av metadata url : None
channel URLs         : https://repo.anaconda.com/pkgs/main/win-64
                     https://repo.anaconda.com/pkgs/main/noarch
                     https://repo.anaconda.com/pkgs/r/win-64
                     https://repo.anaconda.com/pkgs/r/noarch
                     https://repo.anaconda.com/pkgs/msys2/win-64
                     https://repo.anaconda.com/pkgs/msys2/noarch
package cache        : D:\Anaconda\pkgs
                     C:\Users\Lenovo\.conda\pkgs
                     C:\Users\Lenovo\AppData\Local\conda\conda\pkgs
envs directories     : D:\Anaconda\envs
                     C:\Users\Lenovo\.conda\envs
```

使用 `conda env list` 命令查看已有的 Conda 环境的名称和路径，理解 Conda 环境的概念：

```
(base) Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda env list
# conda environments:
#
base                * D:\Anaconda
```

使用 `conda create` 命令创建两个 Conda 环境，一个里面安装 Python 3.12 和 requests 软件包，另一个里面安装 Python 3.9、pandas 和 statsmodels 软件包，能够在终端里切换 Conda 环境，验证 Python 和软件包的版本：

名称	修改日期
prj1	2025/3/31 20:48
prj2	2025/3/31 20:57
.conda_envs_dir_test	2025/3/31 20:47

使用 `conda list` 命令显示 Conda 环境里的软件包列表及其版本信息：

```

(prj1)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda list
# packages in environment at D:\Anaconda\envs\prj1:
#
# Name                                Version                                Build                                Channel
brotli-python                         1.0.9                                py312h5da7b33_9
bzip2                                 1.0.8                                h2bbff1b_6
ca-certificates                       2025.2.25                            haa95532_0
certifi                               2025.1.31                            py312haa95532_0
charset-normalizer                    3.3.2                                pyhd3eb1b0_0
expat                                 2.6.4                                h8ddb27b_0
idna                                   3.7                                   py312haa95532_0
libffi                                 3.4.4                                hd77b12b_1
openssl                                3.0.16                               h3f729d1_0
pip                                    25.0                                  py312haa95532_0
pysocks                               1.7.1                                py312haa95532_0
python                                3.12.9                               h14ffc60_0
requests                              2.32.3                               py312haa95532_1
setuptools                             75.8.0                               py312haa95532_0
sqlite                                 3.45.3                               h2bbff1b_0
tk                                     8.6.14                               h0416ee5_0
tzdata                                2025a                                h04d1e81_0
urllib3                               2.3.0                                py312haa95532_0
vc                                     14.42                                haa95532_4
vs2015_runtime                        14.42.34433                          he0abc0d_4
wheel                                  0.45.1                               py312haa95532_0
win_inet_pton                         1.1.0                                py312haa95532_0
xz                                     5.6.4                                h4754444_1
zlib                                   1.2.13                               h8cc25b3_1
(prj1)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$

```

使用 `conda install` 命令往 Conda 环境里安装更多的软件包，并验证版本：

```

(prj1)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda install ipython
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: D:\Anaconda\envs\prj1

  added / updated specs:
  - ipython

The following packages will be downloaded:

package-----|-----build-----|
asttokens-2.0.5 | pyhd3eb1b0_0       | 20 KB
colorama-0.4.6  | py312haa95532_0   | 53 KB
decorator-5.1.1 | pyhd3eb1b0_0       | 12 KB
executing-0.8.3 | pyhd3eb1b0_0       | 18 KB
ipython-8.30.0  | py312haa95532_0    | 1.5 MB
jedi-0.19.2     | py312haa95532_0    | 1.2 MB
matplotlib-inline-0.1.6 | py312haa95532_0    | 19 KB
parso-0.8.4     | py312haa95532_0    | 239 KB

```

根据 [文档](#)，配置 Anaconda 清华镜像，加快 `conda install` 安装软件包的速度，将 `conda-forge` 设置为默认 Channel，让 `conda install` 能够安装更多的软件包：

```
MINGW64/c/Users/Lenovo x + v
zlib anaconda/pkgs/main/win-64::zlib-1.2.13-h8cc25b3_1

Proceed ([y]/n)? n

CondaSystemExit: Exiting.

(prj1)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda config --set channel_priority strict
(prj1)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda activate prj1
(prj1)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda install polars
Channels:
- conda-forge
- https://repo.anaconda.com/pkgs/main
- https://repo.anaconda.com/pkgs/r
- https://repo.anaconda.com/pkgs/msys2
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: D:\Anaconda\envs\prj1

added / updated specs:
- polars
```

使用 `pip install` 命令往 Conda 环境里安装 Python 软件包，并验证版本：

```
(prj1)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ pip install tushare
Collecting tushare
  Using cached tushare-1.4.21-py3-none-any.whl.metadata (3.3 kB)
Collecting pandas (from tushare)
  Using cached pandas-2.2.3-cp312-cp312-win_amd64.whl.metadata (19 kB)
Requirement already satisfied: requests in d:\anaconda\envs\prj1\lib\site-packages (from tushare) (2.32.3)
Collecting lxml (from tushare)
  Using cached lxml-5.3.1-cp312-cp312-win_amd64.whl.metadata (3.8 kB)
Collecting simplejson (from tushare)
  Using cached simplejson-3.20.1-cp312-cp312-win_amd64.whl.metadata (3.4 kB)
Collecting bs4 (from tushare)
  Using cached bs4-0.0.2-py2.py3-none-any.whl.metadata (411 bytes)
Collecting websocket-client (from tushare)
  Using cached websocket-client-1.8.0-py3-none-any.whl.metadata (8.0 kB)
Collecting tqdm (from tushare)
  Using cached tqdm-4.67.1-py3-none-any.whl.metadata (57 kB)
Collecting beautifulsoup4 (from bs4->tushare)
  Using cached beautifulsoup4-4.13.3-py3-none-any.whl.metadata (3.8 kB)
Requirement already satisfied: numpy<=1.26.0 in d:\anaconda\envs\prj1\lib\site-packages (from pandas->tushare) (2.2.4)
Collecting python-dateutil<=2.8.2 (from pandas->tushare)
  Using cached python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting pytz<=2020.1 (from pandas->tushare)
  Using cached pytz-2025.2-py2.py3-none-any.whl.metadata (22 kB)
Collecting tzdata<=2022.7 (from pandas->tushare)
  Downloading tzdata-2025.2-py2.py3-none-any.whl.metadata (1.4 kB)
Requirement already satisfied: charset-normalizer<4,>=2 in d:\anaconda\envs\prj1\lib\site-packages (from requests->tushare) (3.4.1)
Requirement already satisfied: idna<4,>=2.5 in d:\anaconda\envs\prj1\lib\site-packages (from requests->tushare) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in d:\anaconda\envs\prj1\lib\site-packages (from requests->tushare) (2.3.0)
Requirement already satisfied: certifi<=2017.4.17 in d:\anaconda\envs\prj1\lib\site-packages (from requests->tushare) (2025.1.31)
Collecting colorama (from tqdm->tushare)
```

根据 [文档](#) 配置 PyPI 清华镜像，加快 `pip install` 安装软件包的速度：

```
Collecting soupsieve>1.2 (from BeautifulSoup4->bs4->tushare)
  Downloading soupsieve-2.6-py3-none-any.whl.metadata (4.6 kB)
Collecting typing-extensions>=4.0.0 (from BeautifulSoup4->bs4->tushare)
  Downloading typing_extensions-4.13.0-py3-none-any.whl.metadata (3.0 kB)
Download tushare-1.4.21-py3-none-any.whl (142 kB)
Download websocket_client-1.8.0-py3-none-any.whl (58 kB)
Download bs4-0.0.2-py2.py3-none-any.whl (1.2 kB)
Download lxml-5.3.1-cp312-cp312-win_amd64.whl (3.0 MB)
Download pandas-2.2.3-cp312-cp312-win_amd64.whl (11.5 MB)
Download tqdm-4.67.1-py3-none-any.whl (78 kB)
Download python_dateutil-2.9.0.post0-py2.py3-none-any.whl (229 kB)
Download pytz-2025.2-py2.py3-none-any.whl (509 kB)
Download tzdata-2025.2-py2.py3-none-any.whl (347 kB)
Download BeautifulSoup4-4.13.3-py3-none-any.whl (186 kB)
Download colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Download six-1.17.0-py2.py3-none-any.whl (11 kB)
Download soupsieve-2.6-py3-none-any.whl (36 kB)
Download typing_extensions-4.13.0-py3-none-any.whl (45 kB)
Installing collected packages: pytz, websocket-client, tzdata, typing-extensions, soupsieve, six, simplejson, lxml, colorama, tqdm, python-dateutil, BeautifulSoup4, pandas, bs4, tushare
Successfully installed BeautifulSoup4-4.13.3 bs4-0.0.2 colorama-0.4.6 lxml-5.3.1 pandas-2.2.3 python-dateutil-2.9.0.post0 pytz-2025.2 simplejson-3.20.1 six-1.17.0 soupsieve-2.6 tqdm-4.67.1 tushare-1.4.21 typing-extensions-4.13.0 tzdata-2025.2 websocket-client-1.8.0
(prj1)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ python -m pip install --upgrade pip
Requirement already satisfied: pip in d:\anaconda\envs\prj1\lib\site-packages (25.0.1)
(prj1)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Writing to C:\Users\Lenovo\AppData\Roaming\pip\pip.ini
```

能够导出 `environment.yml` Conda 环境配置文件，能够删除 Conda 环境，能够用 `environment.yml` 配置文件重建 Conda 环境：

```
! environment.yml
1 name: prj1
2 channels:
3   - conda-forge
4   - https://repo.anaconda.com/pkg/main
5   - https://repo.anaconda.com/pkg/r
6   - https://repo.anaconda.com/pkg/msys2
7 dependencies:
8   - brotli-python=1.0=py312h275cf98_2
9   - bzip2=1.0.8=h2466b09_7
10  - ca-certificates=2025.1.31=h56e8100_0
11  - certifi=2025.1.31=pyhd8ed1ab_0
12  - cffi=1.17.1=py312h4389bb4_0
13  - charset-normalizer=3.4.1=pyhd8ed1ab_0
14  - h2=4.2.0=pyhd8ed1ab_0
15  - hpack=4.1.0=pyhd8ed1ab_0
16  - hyperframe=6.1.0=pyhd8ed1ab_0
17  - idna=3.10=pyhd8ed1ab_1
18  - intel-openmp=2024.2.1=h57928b3_1083
19  - libblas=3.9.0=h641d27c_mkl
20  - libblas=3.9.0=h5e41251_mkl
21  - libexpat=2.7.0=he8c23c2_0
22  - libffi=3.4.6=h537db12_1
23  - libhwloc=2.11.2=default_ha69328c_1001
24  - libiconv=1.18=h135ad9c_1
25  - liblapack=3.9.0=h1aa476e_mkl
26  - liblzma=5.6.4=h2466b09_0
27  - libsqlite=3.49.1=h67fdade_2
28  - libwinpthread=12.0.0.r4.gg4f2fc60ca=h57928b3_9
29  - libxml2=2.13.7=he286e8c_0
30  - libzlib=1.3.1=h2466b09_2
```

```
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda deactivate
(base)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda env list
# conda environments:
#
base                  * D:\Anaconda
prj1                  D:\Anaconda\envs\prj1
prj2                  D:\Anaconda\envs\prj2

(base)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda env remove -n prj1
usage: conda-script.py env [-h] command ...
conda-script.py env: error: argument command: invalid choice: 'remove' (choose from 'config', 'create', 'export', 'list', 'remove', 'update')
(base)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda env remove -n prj1

Remove all packages in environment D:\Anaconda\envs\prj1:

## Package Plan ##

environment location: D:\Anaconda\envs\prj1
```

```
MINGW64/c/Users/Lenovo x + v
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda env remove -n prj1
usage: conda-script.py env [-h] command ...
conda-script.py env: error: argument command: invalid choice: 'remove' (choose from 'config', 'create', 'export', 'list', 'remove', 'update')
(base)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~
$ conda env remove -n prj1

Remove all packages in environment D:\Anaconda\envs\prj1:

## Package Plan ##

environment location: D:\Anaconda\envs\prj1

The following packages will be REMOVED:

brotli-python-1.1.0-py312h275cf98_2
bzip2-1.0.8-h2466b09_7
ca-certificates-2025.1.31-h56e8100_0
certifi-2025.1.31-pyhd8ed1ab_0
cffi-1.17.1-py312h4389bb4_0
charset-normalizer-3.4.1-pyhd8ed1ab_0
h2-4.2.0-pyhd8ed1ab_0
hpack-4.1.0-pyhd8ed1ab_0
hyperframe-6.1.0-pyhd8ed1ab_0
idna-3.10-pyhd8ed1ab_1
intel-openmp-2024.2.1-h57928b3_1083
libblas-3.9.0-31_h641d27c_mkl
libcbblas-3.9.0-31_h5e41251_mkl
libexpat-2.7.0-he0c23c2_0
```

```
(base)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$ pwd
/c/Users/Lenovo/repo/prj1
(base)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$ ls -l
total 4
-rw-r--r-- 1 Lenovo 197121 2096 4月 1 21:24 environment.yml
(base)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$ conda env create --help
usage: conda-script.py env create [-h] [-f FILE] [-n ENVIRONMENT | -p PATH] [-C] [-k] [--offline] [--no-default-packages] [--json]
      [--console CONSOLE] [-v] [-q] [-d] [-y] [--solver {classic,libmamba}] [--subdir SUBDIR]
      [remote_definition]

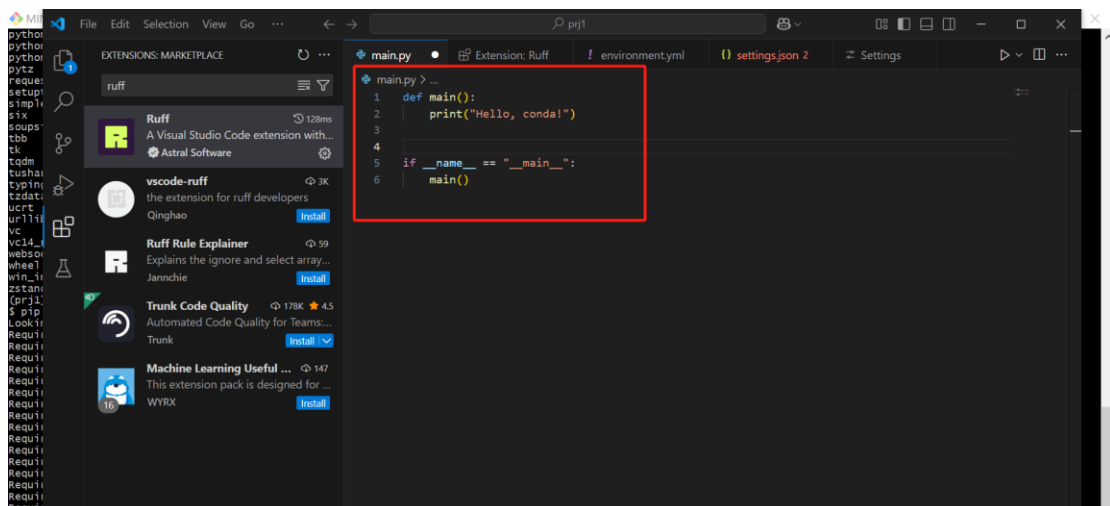
Create an environment based on an environment definition file.

If using an environment.yml file (the default), you can name the
environment in the first line of the file with 'name: envname' or
you can specify the environment name in the CLI command using the
-n/--name argument. The name specified in the CLI will override
the name specified in the environment.yml file.

Unless you are in the directory containing the environment definition
file, use -f to specify the file path of the environment definition
file you want to use.

positional arguments:
  remote_definition      'remote_definition' is deprecated and will be removed in 25.9. Use 'conda env create --file=URL' instead.
```

按照 [教程](#) 创建项目目录，在 VS Code 文本编辑器里安装一些支持 Python 开发的常用扩展，编写 `main.py` 脚本，创建该项目专用的 Conda 环境，在终端里激活该环境并成功运行该脚本：





```
MINGW64/c/Users/Lenovo/re  X + v
polars-lts-cpu 1.26.0 pypi_0 pypi
pyparser 2.22 pyh29332c3_1 conda-forge
pysocks 1.7.1 pyh09c184e_7 conda-forge
python 3.12.9 h3f84c4b_1_cpython conda-forge
python-dateutil 2.9.0.post0 pypi_0 pypi
python_abi 3.12 5_cp312 conda-forge
pytz 2025.2 pypi_0 pypi
requests 2.32.3 pyhd8ed1ab_1 conda-forge
setuptools 75.8.2 pyhff2d567_0 conda-forge
simplejson 3.20.1 pypi_0 pypi
six 1.17.0 pypi_0 pypi
soupsieve 2.6 pypi_0 pypi
tbb 2021.13.0 h62715c5_1 conda-forge
tk 8.6.13 h5226925_1 conda-forge
tqdm 4.67.1 pypi_0 pypi
tushare 1.4.21 pypi_0 pypi
typing-extensions 4.13.0 pypi_0 pypi
tzdata 2025.2 pypi_0 pypi
ucrt 10.0.22621.0 h57928b3_1 conda-forge
urllib3 2.3.0 pyhd8ed1ab_0 conda-forge
vc 14.3 h2b53caa_26 conda-forge
vc14_runtime 14.42.34438 hfd919c2_26 conda-forge
websocket-client 1.8.0 pypi_0 pypi
wheel 0.45.1 pyhd8ed1ab_1 conda-forge
win_inet_pton 1.1.0 pyh7428d3b_8 conda-forge
zstandard 0.23.0 py312h4389bb4_1 conda-forge
(new_env)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$ python main.py
Hello, conda!
(new_env)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$
```

```
File Edit Selection View Go ... main.py Extension: Ruff EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv x ! environment.yml ...
PRJ1
> myproject
! environment.yml
EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv
main.py
1 ,CBSA,CBSA_Name,CBSA_POP,CBSA_EMP,CBSA_WRK,Ac_Total,Ac_Water,Ac_Land,Ac_Unpr,TotPop,Count
123 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,138.761476,0,138.761476,1
124 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,133.5395117,0,133.5395117
125 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,111.4892961,0,111.4892961
126 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,88.0241859,0,88.0241859,8
127 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,81.3010891,0,81.3010891,8
128 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,60.0507362,0,60.0507362,5
129 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,91.7885073,0,91.7885073,9
130 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,75.5616974,0,75.5616974,7
131 Alice, TX",18580,"Corpus Christi, TX",427532,175189,172043,90.6150294,0,90.6150294,90.615
132 Alice, TX",18580,"Corpus Christi, TX",427532,175189,172043,220.2357822,0,220.2357822,212.
133 Alice, TX",18580,"Corpus Christi, TX",427532,175189,172043,109.107005,0,109.107005,105.30
134 Alice, TX",18580,"Corpus Christi, TX",427532,175189,172043,111.9780599,0,111.9780599,111.
135 Alice, TX",18580,"Corpus Christi, TX",427532,175189,172043,174.1916624,0,174.1916624,174.
136 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,76.494747,0,76.494747,76.
137 Alice, TX",18580,"Corpus Christi, TX",427532,175189,172043,137.629758,0,137.629758,59.840
138 Alice, TX",18580,"Corpus Christi, TX",427532,175189,172043,69.4459724,0,69.4459724,69.445
139 Alice, TX",18580,"Corpus Christi, TX",427532,175189,172043,92.2562676,0,92.2562676,87.242
140 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,98.1083369,0,98.1083369,9
141 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,104.3424228,0,104.3424228,3
142 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,95.3529248,0,95.3529248,9
143 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,21.5530504,0,21.5530504,2
144 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,141.04468,0,141.04468,140
145 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,167.8940718,0,167.8940718
146 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,113.5387435,0,113.5387435
147 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,160.26906,0,160.26906,160
148 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,161.5544742,0,161.5544742
149 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,154.7374794,0,154.737479
150 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,288.0083934,0,288.0083934
151 19100,"Dallas-Fort Worth-Arlington, TX",7189384,3545715,3364458,32.1865047,0,32.1865047
Col 1: OBJECTID Ln 1, Col 1 Spacing 4 UTF-8 CRLF CSV
```

```
MINGW64/c/Users/Lenovo/re  X + v
73 192M 73 142M 0 0 219k 0 0:14:56 0:11:02 0:03:54 262k
(new_env)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$ curl -O https://edg.epa.gov/EPADataCommons/public/OA/EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv
% Total % Received % Xferd Average Speed Time Time Time Current
5 192M 5 10.1M 0 0 190k 0 0:17:13 0:00:54 0:16:19 184k
(new_env)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$ ls -lh
total 11M
-rw-r--r-- 1 Lenovo 197121 2.1K 4月 1 21:24 environment.yml
-rw-r--r-- 1 Lenovo 197121 11M 4月 2 21:45 EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv
-rw-r--r-- 1 Lenovo 197121 85 4月 2 21:26 main.py
drwxr-xr-x 1 Lenovo 197121 0 4月 2 20:19 myproject/
(new_env)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$ python main.py
6.86% of U.S. residents live in highlywalkable neighborhoods.
(new_env)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$ conda env list
# conda environments:
#
base D:\Anaconda
new_env * D:\Anaconda\envs\new_env
prj1 D:\Anaconda\envs\prj1
prj2 D:\Anaconda\envs\prj2
(new_env)
Lenovo@DESKTOP-NT0RQTH MINGW64 ~/repo/prj1
$
```



