# Anaconda Prompt (DOS) - CMD

## Reading Notes

1. 本篇整理针对 Anaconda3( version 2.0.0 ~ 2.5.3 ) 的 DOS(UI) 界面
2. 默认命令主体在 Windows 和 Ubuntu(Linux) 中通用，有特殊情况会额外补充说明
3. 命令格式在不同 OS 环境中略有差别
4. 命令格式说明中，'()' 代表可选（可省略），'[]' 代表 "指定格式字符串替换"， ||
   代表"多种格式选择"
5. 命令格式有两种指定方式："--[command]", "-[command]" 前者替换为命令全称，后
   者为简称
6. anaconda 命令一般以 "conda" 开头
7. pip VS conda

## The Installation and Preparation Of Local Environment

### Windows-10

前往官网下载安装即可

### Linux-Ubuntu22.04

1. 前往官网下载安装包（文件后缀 .sh）
2. 终端安装：方法一：

   > 直接打开终端
   > 输入安装命令：`bash ~/ Path to the file/Anaconda3-[version]-[OS]-[arch].sh`
   > 方法二：
   > 在安装包文件出，右键"在终端打开" 输入安装命令：`bash Anaconda3-[version]-[OS]-[arch].sh`

3. 重新打开终端即可

## start Anaconda in Graphical User Interface (GUI)

anaconda-navigator

## Comparison Table

Postfix command -y / --yes 后置指令，自动确认

## SoftWare Basic Operate

- cd -- 切换文件路径

- [ Drive-Letter: ] -- 切换硬盘分区

- version -- 查看 conda 的版本

```
conda --version
```

# Help

# SoftWare Config

## Global

- show

```
conda config --show
```

## Channel

- add

```
conda config --add channels [URL]

PS: "URL" ummary can be found in Appendix 2 at the end of the article
```

- clean cache

```
conda clean -i
```

- generate configuration file

```
conda config --set show_channel_urls yes

The configuration file template ( ".condarc", 该文件位于用户目录当中):
```

```
channels:
- defaults
show_channel_urls: true

( channel_alias: [URL] )

default_channels:
- [URL]
...

custom_channels:
[type-name:URL]
...
```

```
PS: File examples can be found in Appendix 1 at the end of the article
```

- remove

```
conda config --remove channels [URL]
```

- reset

- show

```
conda config --show-source
```

# Environment

- activate

```
conda activate [env-name]
```

- backup / export

```
conda env export > [env-name].yaml conda list -e > [env-filename].txt
```

- creat

```
conda create -n [env-name] python=[version-number]
conda env create -f [env-name].yaml
```

- deactivate

```
conda deactivate
```

- remove

```
conda remove -n [env-name] --all
```

Version Management

Package Management

### Conda Operation

- install

```
conda install [package-name]
conda install [package-name]=[version-number]
conda install [package-name] --channel [URL]
conda install -f [requirements-filename].txt
```

- search

```
conda search [package-name]
```

- uninstall

```
conda uninstall [package-name]
```

- version

- update

```
conda update [package-name]
```

**pip Operation**

- install / update

```
pip install [package-name]
pip install -U [package-name]
pip install -i [URL]
pip install -r [requirements-filename].txt
```

- uninstall

```
pip install [package-name]
```

- version

```
pip -V
```

# Appendix

1

- Tsinghua University Open Source Software Mirror Station

```
channels:
- defaults

show_channel_urls: true

channel_alias: https://mirrors.tuna.tsinghua.edu.cn/anaconda

default_channels:
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/free
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/r
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/pro
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/msys2

custom_channels:
conda-forge: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
msys2: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
bioconda: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
menpo: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
pytorch: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
simpleitk: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
```

- Beijing Foreign Studies University Open Source Software Mirror Station

```
channels:
- defaults

show_channel_urls: true
```

```
channel_alias: https://mirrors.bfsu.edu.cn/anaconda

default_channels:
- https://mirrors.bfsu.edu.cn/anaconda/pkgs/main
- https://mirrors.bfsu.edu.cn/anaconda/pkgs/free
- https://mirrors.bfsu.edu.cn/anaconda/pkgs/r
- https://mirrors.bfsu.edu.cn/anaconda/pkgs/pro
- https://mirrors.bfsu.edu.cn/anaconda/pkgs/msys2

custom_channels:
conda-forge: https://mirrors.bfsu.edu.cn/anaconda/cloud
msys2: https://mirrors.bfsu.edu.cn/anaconda/cloud
bioconda: https://mirrors.bfsu.edu.cn/anaconda/cloud
menpo: https://mirrors.bfsu.edu.cn/anaconda/cloud
pytorch: https://mirrors.bfsu.edu.cn/anaconda/cloud
simpleitk: https://mirrors.bfsu.edu.cn/anaconda/cloud
```

- Shanghai Jiao Tong University Open Source Software Mirror Station

```
channels:
- defaults

show_channel_urls: true

channel_alias: https://anaconda.mirrors.sjtug.sjtu.edu.cn/

default_channels:
- https://anaconda.mirrors.sjtug.sjtu.edu.cn/pkgs/main
- https://anaconda.mirrors.sjtug.sjtu.edu.cn/pkgs/free
- https://anaconda.mirrors.sjtug.sjtu.edu.cn/pkgs/mro
- https://anaconda.mirrors.sjtug.sjtu.edu.cn/pkgs/msys2
- https://anaconda.mirrors.sjtug.sjtu.edu.cn/pkgs/pro
- https://anaconda.mirrors.sjtug.sjtu.edu.cn/pkgs/r

custom_channels:
conda-forge: https://anaconda.mirrors.sjtug.sjtu.edu.cn/conda-forge
soumith: https://anaconda.mirrors.sjtug.sjtu.edu.cn/cloud/soumith
bioconda: https://anaconda.mirrors.sjtug.sjtu.edu.cn/cloud/bioconda
menpo: https://anaconda.mirrors.sjtug.sjtu.edu.cn/cloud/menpo
viscid-hub: https://anaconda.mirrors.sjtug.sjtu.edu.cn/cloud/viscid-hub
atztogo: https://anaconda.mirrors.sjtug.sjtu.edu.cn/cloud/atztogo
```

- Alibaba Open Source Software Mirror Station

```
channels:
- defaults

show_channel_urls: true

default_channels:
- http://mirrors.aliyun.com/anaconda/pkgs/main
```

```
- http://mirrors.aliyun.com/anaconda/pkgs/r
- http://mirrors.aliyun.com/anaconda/pkgs/msys2

custom_channels:
conda-forge: http://mirrors.aliyun.com/anaconda/cloud
msys2: http://mirrors.aliyun.com/anaconda/cloud
bioconda: http://mirrors.aliyun.com/anaconda/cloud
menpo: http://mirrors.aliyun.com/anaconda/cloud
pytorch: http://mirrors.aliyun.com/anaconda/cloud
simpleitk: http://mirrors.aliyun.com/anaconda/cloud
```

2

- Tsinghua University Open Source Software Mirror Station

```
https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main
https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/free
https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/r
https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/pro
https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/msys2
https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/conda-forge
https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/msys2
https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/bioconda
https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/menpo
https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/pytorch
https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/simpleitk
```

3

- Anaconda command reference CSDN-anaconda常用命令