

# Anaconda Pytorch软件下载

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CUDA 版本是 11.8

## 1 什么是 Anaconda?

### 1. Anaconda 是一个开源的数据科学平台

- 它集成了多个数据科学、机器学习、数据处理和可视化的工具和库。

### 2. Anaconda 提供高效的包管理器 conda

- 可以便捷地安装和管理 PyTorch 及其相关依赖库。
- 注意：Anaconda 并不是 PyTorch 的一部分，但它是管理和安装 PyTorch 及其依赖项的强大工具。

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## 2 什么是 PyTorch?

### 1. PyTorch 是一个开源的深度学习框架

- 由 Facebook 的人工智能研究小组开发。

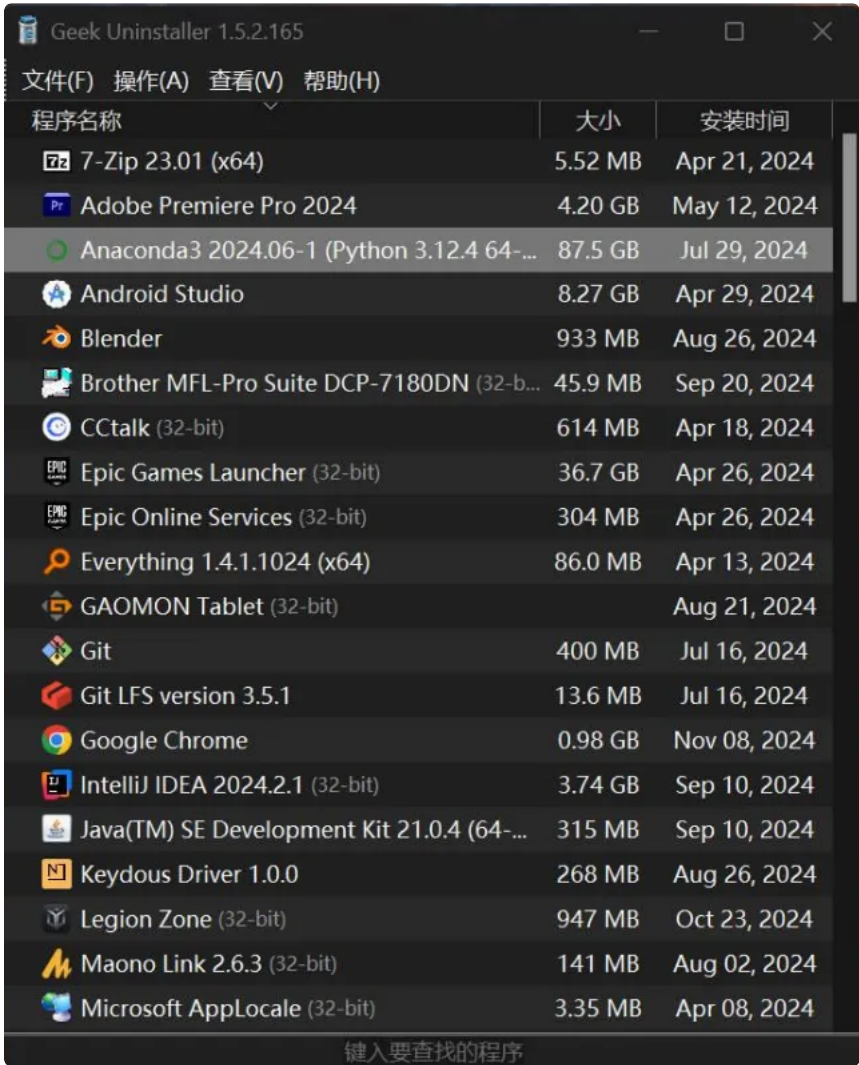
### 2. 主要用途

- 构建和训练神经网络模型。

### 3. 特点

- 灵活性高、易于使用
- 支持动态计算图
- 在科研和工业界应用广泛

### 3 卸载Anaconda

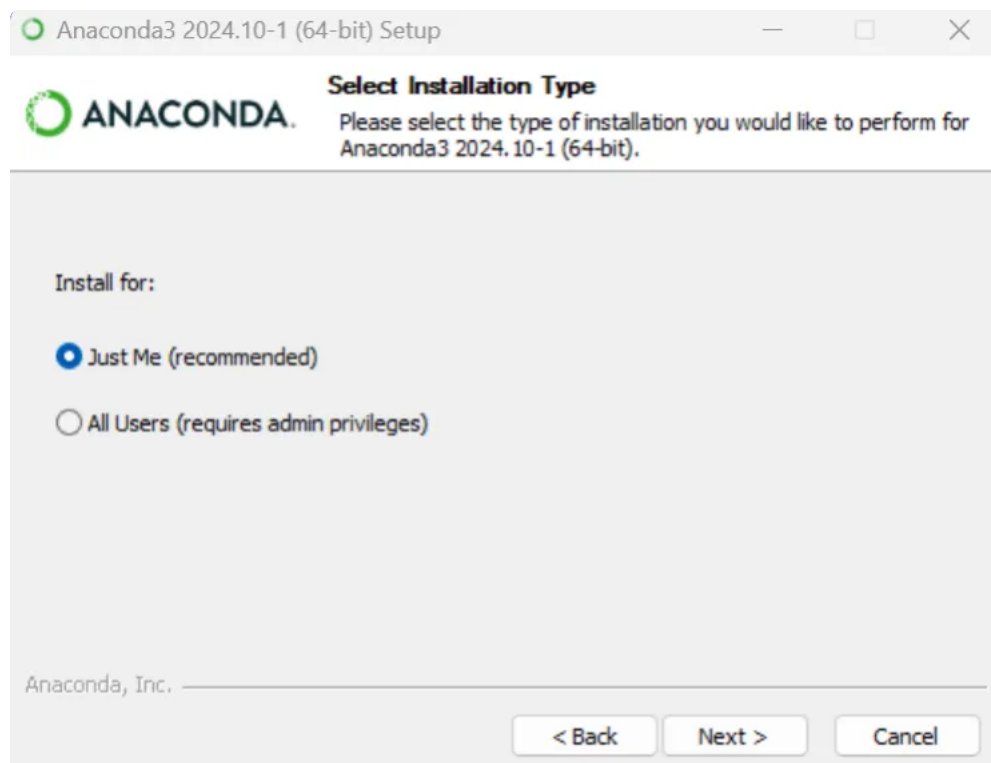


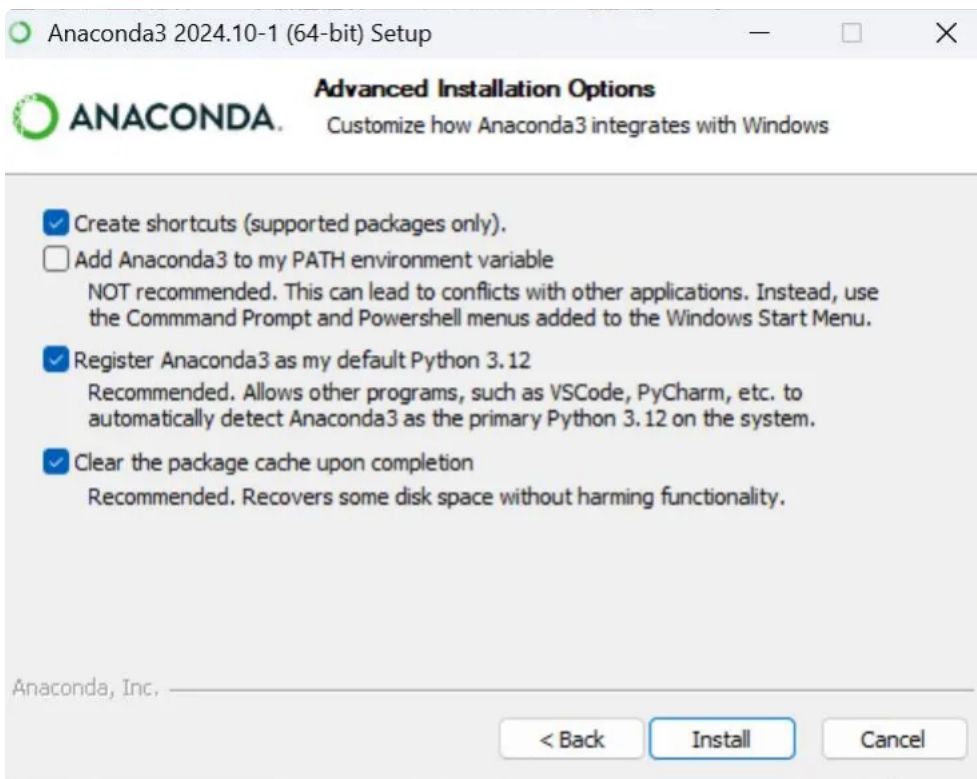
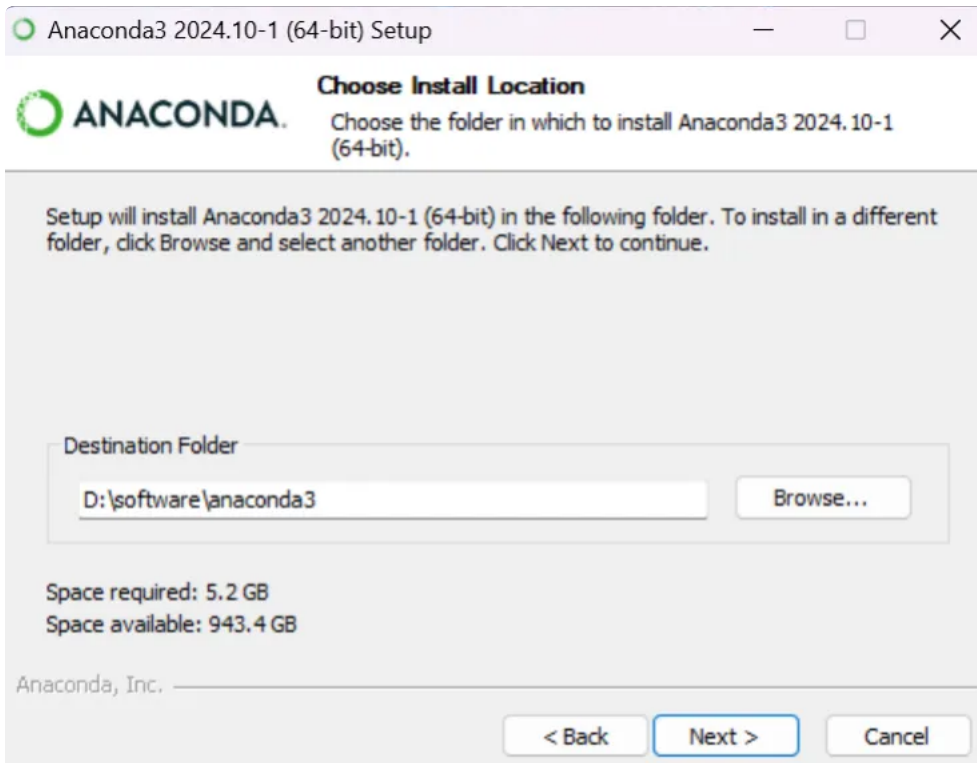
### 4 安装Anaconda

清华镜像源: <https://mirrors.tuna.tsinghua.edu.cn/help/anaconda/>

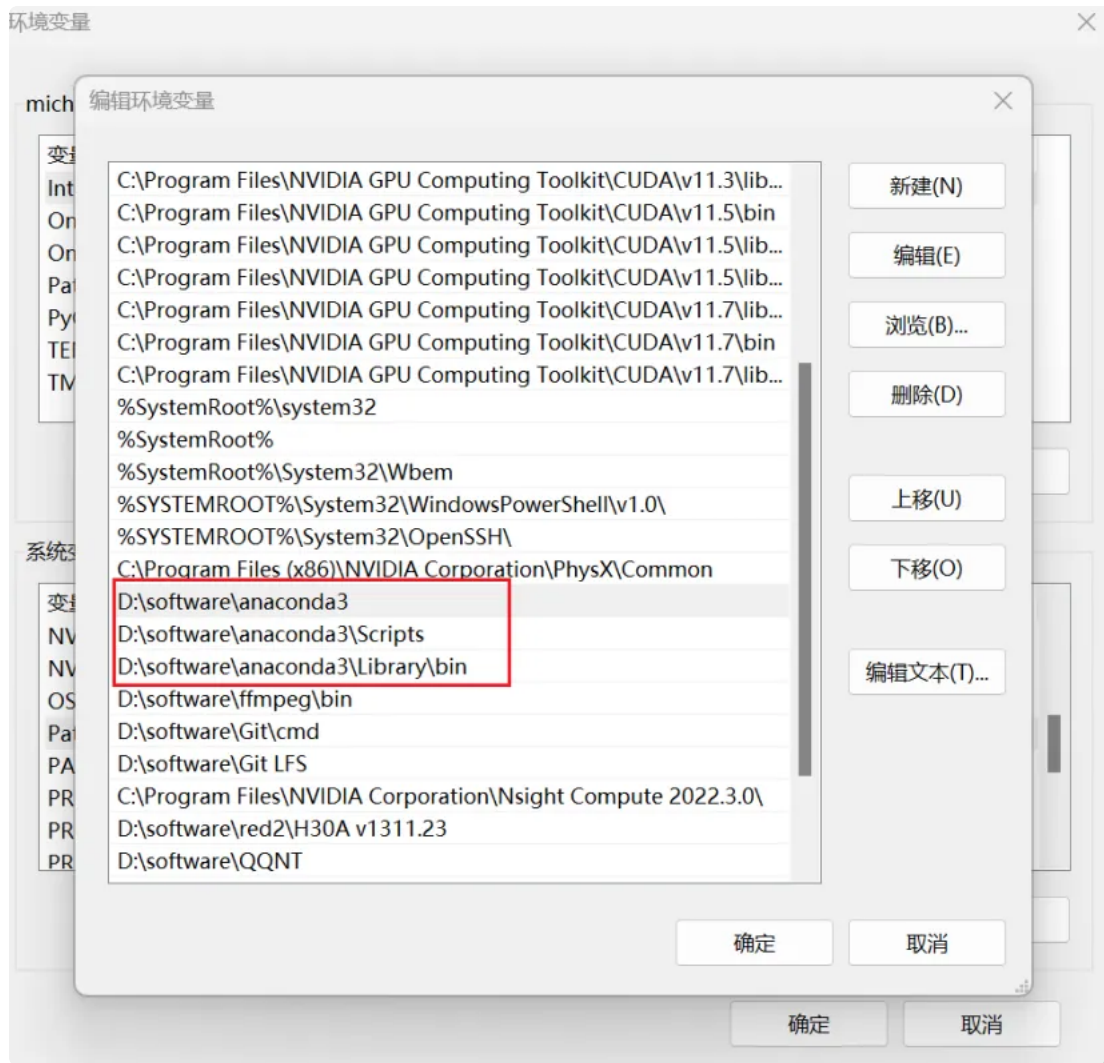
Anaconda3-2024.06-1-MacOSX-x86_64.sh	737.2 MiB
Anaconda3-2024.06-1-Windows-x86_64.exe	912.3 MiB
Anaconda3-2024.10-1-Linux-aarch64.sh	843.2 MiB
Anaconda3-2024.10-1-Linux-s390x.sh	441.2 MiB
Anaconda3-2024.10-1-Linux-x86_64.sh	1.0 GiB
Anaconda3-2024.10-1-MacOSX-arm64.pkg	744.6 MiB
Anaconda3-2024.10-1-MacOSX-arm64.sh	747.2 MiB
Anaconda3-2024.10-1-MacOSX-x86_64.pkg	776.0 MiB
Anaconda3-2024.10-1-MacOSX-x86_64.sh	778.5 MiB
Anaconda3-2024.10-1-Windows-x86_64.exe	950.5 MiB

下载这个版本

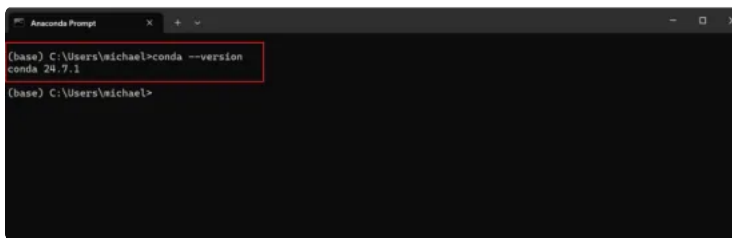




## 5 配置环境变量



查看Anaconda是否安装成功: 打开 Anaconda Prompt 输入 `conda --version`



## 6 安装Pytorch

官网 <https://pytorch.org/get-started/previous-versions/>

v2.4.1

Conda

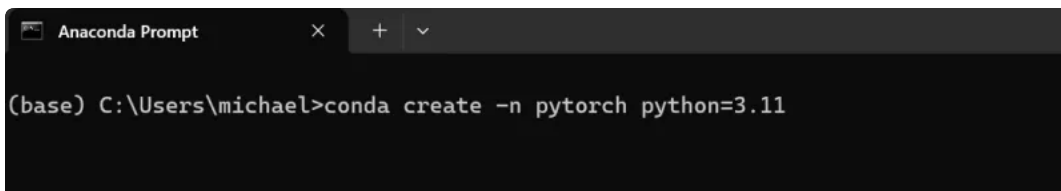
OSX

```
# conda
conda install pytorch==2.4.1 torchvision==0.19.1 torchaudio==2.4.1 -c pytorch
```

LINUX AND WINDOWS

```
# CUDA 11.8
conda install pytorch==2.4.1 torchvision==0.19.1 torchaudio==2.4.1 pytorch-cuda=11.8 -c py
# CUDA 12.1
conda install pytorch==2.4.1 torchvision==0.19.1 torchaudio==2.4.1 pytorch-cuda=12.1 -c py
# CUDA 12.4
conda install pytorch==2.4.1 torchvision==0.19.1 torchaudio==2.4.1 pytorch-cuda=12.4 -c py
# CPU Only
conda install pytorch==2.4.1 torchvision==0.19.1 torchaudio==2.4.1 cpuonly -c pytorch
```

进入Anaconda Prompt



```
Anaconda Prompt
(base) C:\Users\michael>conda create -n pytorch python=3.11
```

```
Anaconda Prompt - Conda cr X + v

package | build
-----|-----
openssl-3.0.14 | h827c3e9_0 | 7.8 MB
pip-24.0 | py39haa95532_0 | 2.8 MB
python-3.9.19 | h1aa4202_1 | 19.6 MB
setuptools-69.5.1 | py39haa95532_0 | 1003 KB
sqlite-3.45.3 | h2bbff1b_0 | 973 KB
tzdata-2024a | h04d1e81_0 | 116 KB
vc-14.2 | h2eaa2aa_4 | 10 KB
vs2015_runtime-14.29.30133 | h43f2093_4 | 1.1 MB
wheel-0.43.0 | py39haa95532_0 | 137 KB
-----|-----
Total: | 33.5 MB

The following NEW packages will be INSTALLED:

ca-certificates pkgs/main/win-64::ca-certificates-2024.7.2-haa95532_0
openssl pkgs/main/win-64::openssl-3.0.14-h827c3e9_0
pip pkgs/main/win-64::pip-24.0-py39haa95532_0
python pkgs/main/win-64::python-3.9.19-h1aa4202_1
setuptools pkgs/main/win-64::setuptools-69.5.1-py39haa95532_0
sqlite pkgs/main/win-64::sqlite-3.45.3-h2bbff1b_0
tzdata pkgs/main/noarch::tzdata-2024a-h04d1e81_0
vc pkgs/main/win-64::vc-14.2-h2eaa2aa_4
vs2015_runtime pkgs/main/win-64::vs2015_runtime-14.29.30133-h43f2093_4
wheel pkgs/main/win-64::wheel-0.43.0-py39haa95532_0

Proceed ([y]/n)? y|
```

```
openssl pkgs/main/win-64::openssl-3.0.14-h827c3e9_0
pip pkgs/main/win-64::pip-24.0-py39haa95532_0
python pkgs/main/win-64::python-3.9.19-h1aa4202_1
setuptools pkgs/main/win-64::setuptools-69.5.1-py39haa95532_0
sqlite pkgs/main/win-64::sqlite-3.45.3-h2bbff1b_0
tzdata pkgs/main/noarch::tzdata-2024a-h04d1e81_0
vc pkgs/main/win-64::vc-14.2-h2eaa2aa_4
vs2015_runtime pkgs/main/win-64::vs2015_runtime-14.29.30133-h43f2093_4
wheel pkgs/main/win-64::wheel-0.43.0-py39haa95532_0

Proceed ([y]/n)? y

Downloading and Extracting Packages:

Preparing transaction: done
Verifying transaction: done
Executing transaction: done

To activate this environment, use

    $ conda activate pytorch2.3.1

To deactivate an active environment, use

    $ conda deactivate

base) C:\Users\michael>conda activate pytorch2.3.1
```



```

Anaconda Prompt - conda in
Proceed ([y]/n)? y

Downloading and Extracting Packages:
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#   $ conda activate pytorch2.3.1
#
# To deactivate an active environment, use
#
#   $ conda deactivate

(base) C:\Users\michael>conda activate pytorch2.3.1
(pytorch2.3.1) C:\Users\michael>conda install pytorch==2.3.1 torchvision==0.18.1 torchaudio==2.3.1 pytorch-cuda=11.8 -c
pytorch -c nvidia
Channels:
- pytorch
- nvidia
- defaults
Platform: win-64
Collecting package metadata (repodata.json): /

```

```

Anaconda Prompt - python
(base) C:\Users\michael>conda activate pytorch2.3.1
(pytorch2.3.1) C:\Users\michael>python
Python 3.9.19 (main, May 6 2024, 20:12:36) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> import torch
>>> torch.cuda.is_available()
True
>>>

```

```

C:\Users\Caucer>conda activate yolov7-commons
(yolov7-commons) C:\Users\Caucer>conda install pytorch==2.5.1 torchvision==0.20.1 torchaudio==2.5.1 pytorch-cuda=12.1 -c pytorch -c nvidia
Channels:
- pytorch
- nvidia
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

```