

Pytorch-Wildlife Installation instructions

1. Install Anaconda



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Anaconda Distribution

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Everything you need to get started in data science on your workstation.

- ✓ Free distribution install
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- ✓ Manage packages and environments from desktop application
- ✓ Deploy across hardware and software platforms

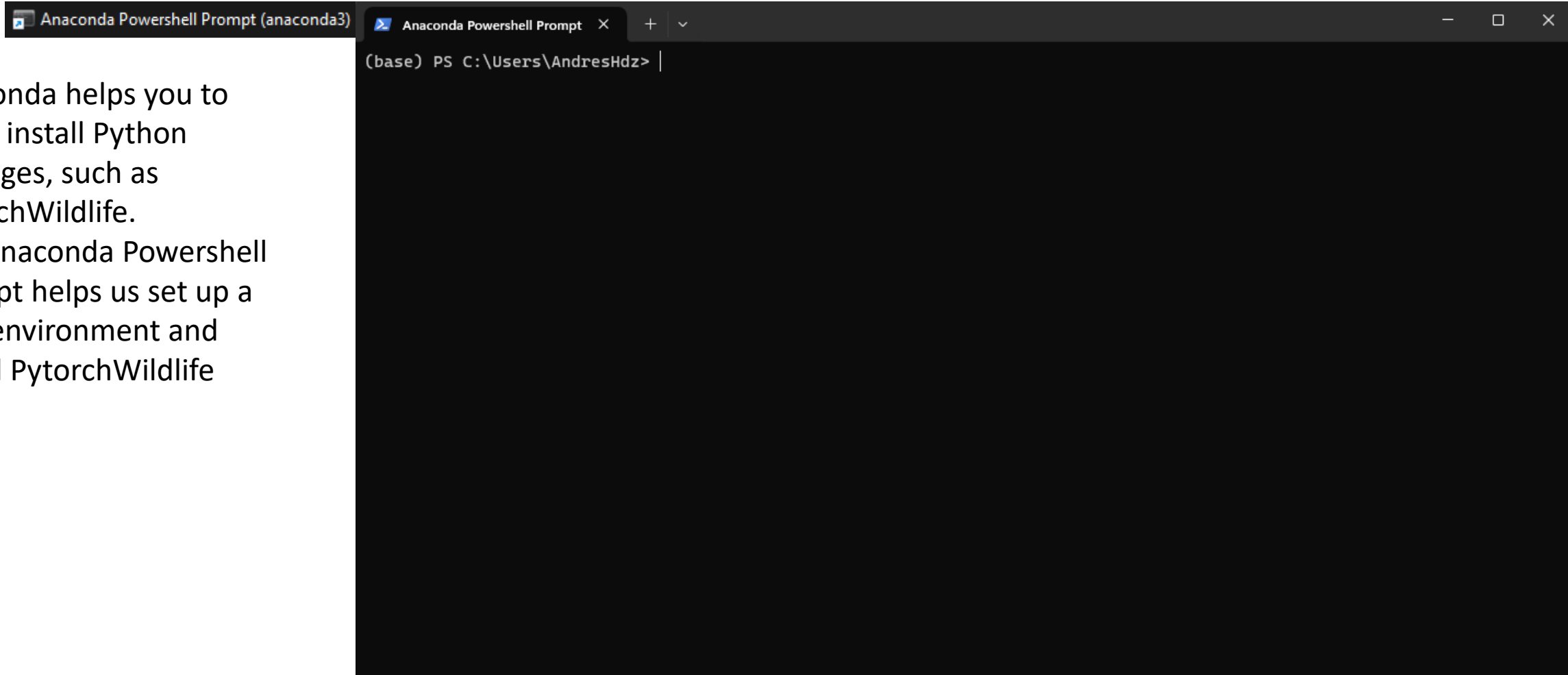
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2. Open the powershell prompt

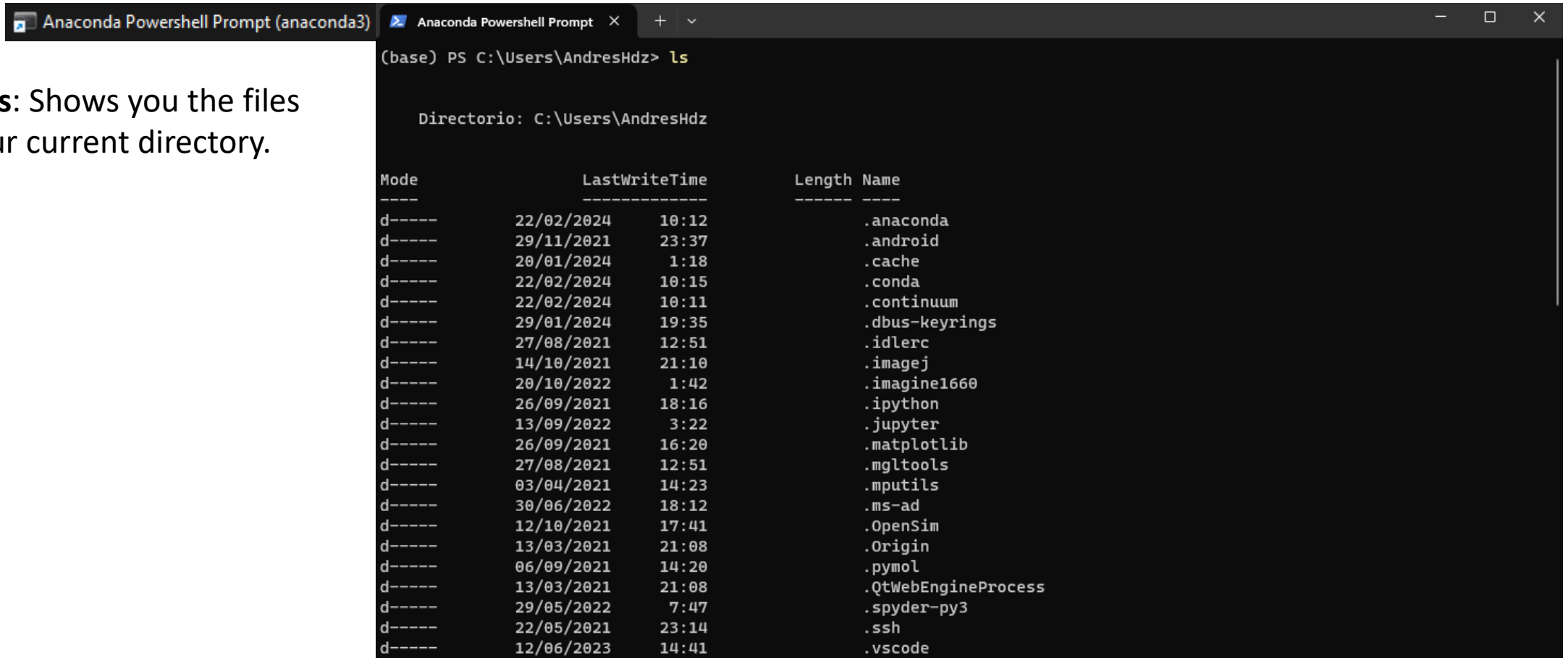
- Anaconda helps you to easily install Python packages, such as PytorchWildlife.
- The Anaconda Powershell Prompt helps us set up a new environment and install PytorchWildlife

A screenshot of the Anaconda Powershell Prompt terminal window. The window title bar shows "Anaconda Powershell Prompt (anaconda3)" and "Anaconda Powershell Prompt". The terminal content shows the prompt "(base) PS C:\Users\AndresHdz> |" with a cursor at the end of the line.

```
(base) PS C:\Users\AndresHdz> |
```

3.1 Navigate to your destination folder

- (list) **ls**: Shows you the files in your current directory.



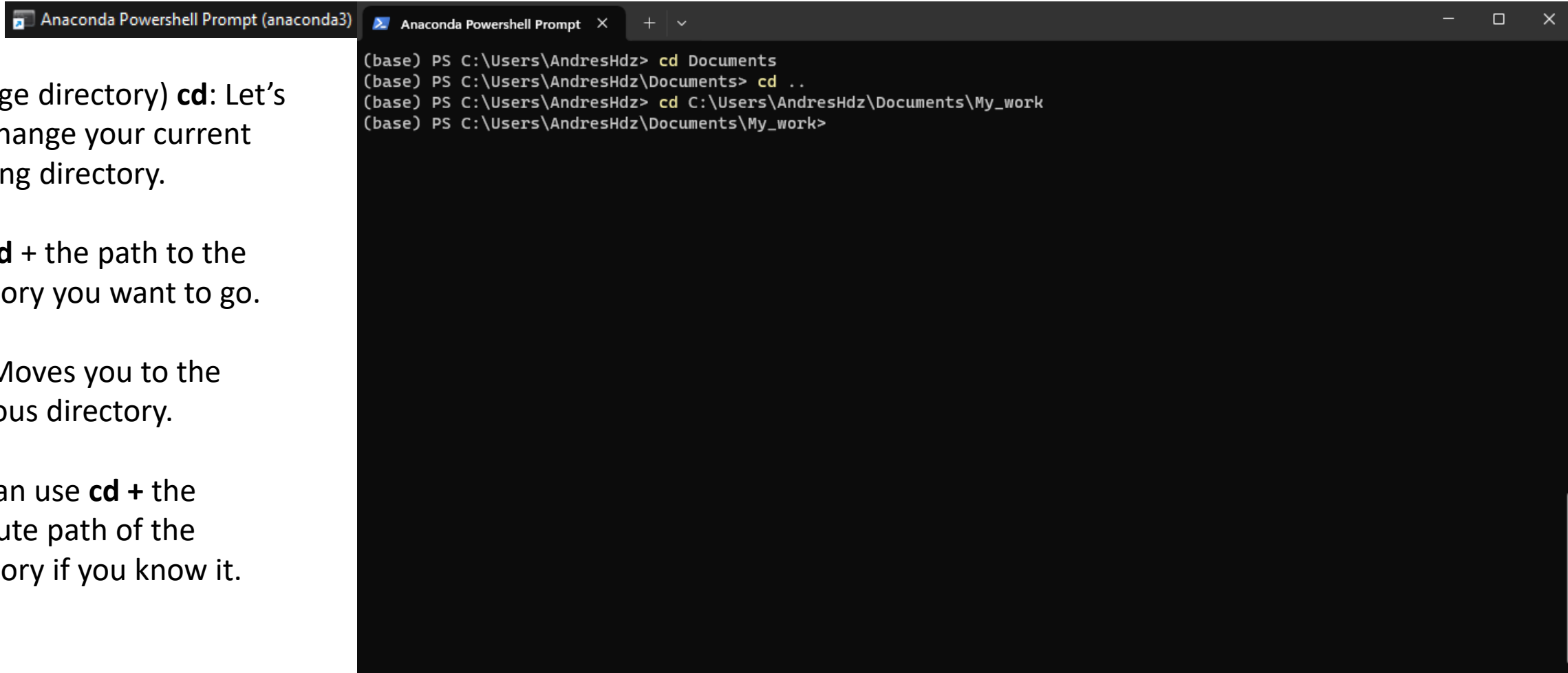
```
Anaconda Powershell Prompt (anaconda3) Anaconda Powershell Prompt x + v
(base) PS C:\Users\AndresHdz> ls

Directorio: C:\Users\AndresHdz

Mode                LastWriteTime         Length Name
----                -
d-----           22/02/2024    10:12          .anaconda
d-----           29/11/2021    23:37          .android
d-----           20/01/2024     1:18          .cache
d-----           22/02/2024    10:15          .conda
d-----           22/02/2024    10:11          .continuum
d-----           29/01/2024    19:35          .dbus-keyrings
d-----           27/08/2021    12:51          .idlerc
d-----           14/10/2021    21:10          .imagej
d-----           20/10/2022     1:42          .imagine1660
d-----           26/09/2021    18:16          .ipython
d-----           13/09/2022     3:22          .jupyter
d-----           26/09/2021    16:20          .matplotlib
d-----           27/08/2021    12:51          .mgltools
d-----           03/04/2021    14:23          .mputils
d-----           30/06/2022    18:12          .ms-ad
d-----           12/10/2021    17:41          .OpenSim
d-----           13/03/2021    21:08          .Origin
d-----           06/09/2021    14:20          .pymol
d-----           13/03/2021    21:08          .QtWebEngineProcess
d-----           29/05/2022     7:47          .spyder-py3
d-----           22/05/2021    23:14          .ssh
d-----           12/06/2023    14:41          .vscode
```

3.2 Navigate to your destination folder

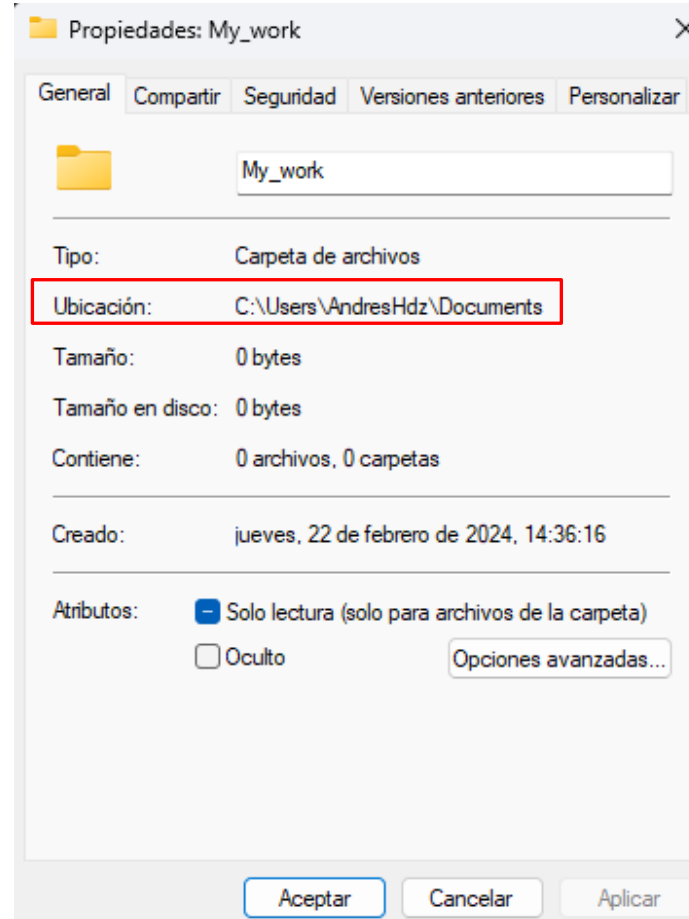
- (change directory) **cd**: Let's you change your current working directory.
- Use **cd** + the path to the directory you want to go.
- **cd ..** Moves you to the previous directory.
- You can use **cd** + the absolute path of the directory if you know it.



```
Anaconda PowerShell Prompt (anaconda3) Anaconda PowerShell Prompt x + v
(base) PS C:\Users\AndresHdz> cd Documents
(base) PS C:\Users\AndresHdz\Documents> cd ..
(base) PS C:\Users\AndresHdz> cd C:\Users\AndresHdz\Documents\My_work
(base) PS C:\Users\AndresHdz\Documents\My_work>
```

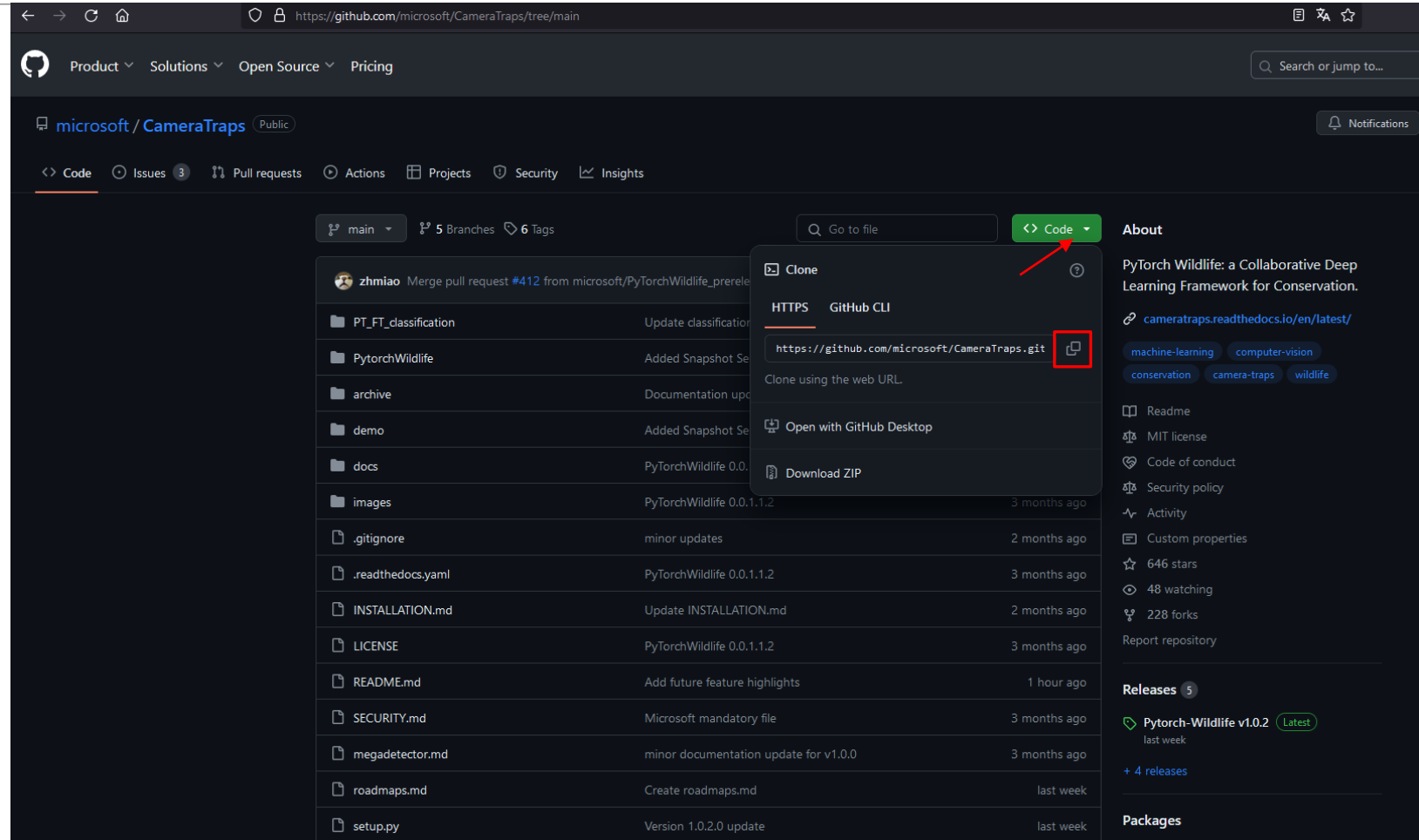
3.3 Navigate to your destination folder

- If you want to know the absolute path of the folder that you want to use. Right-click and click **properties**. It will show you the path.



4.1 Clone the CameraTraps repo

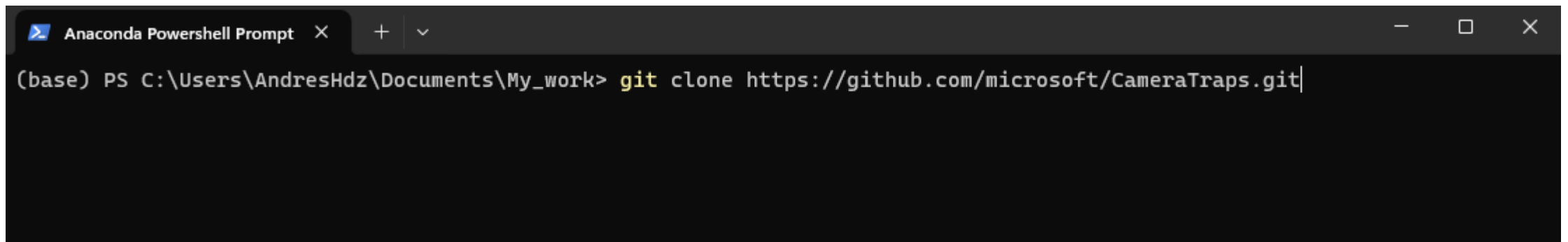
- Go to github.com/microsoft/CameraTraps/tree/main and copy the link.



The screenshot shows the GitHub repository page for `microsoft/CameraTraps`. The 'Code' dropdown menu is open, and the 'Clone' option is selected. The URL `https://github.com/microsoft/CameraTraps.git` is displayed and highlighted with a red box. A red arrow points to the 'Code' button. The repository page also shows a list of files and folders, including `PT_FT_classification`, `PytorchWildlife`, `archive`, `demo`, `docs`, `images`, `.gitignore`, `.readthedocs.yaml`, `INSTALLATION.md`, `LICENSE`, `README.md`, `SECURITY.md`, `megadetector.md`, `roadmaps.md`, and `setup.py`.

4.2 Clone the CameraTraps repo

- The PytorchWildlife GitHub repo contains a set of installation instructions, we will be following them.
<https://github.com/microsoft/CameraTraps/blob/main/INSTALLATION.md>



```
Anaconda Powershell Prompt x + v
(base) PS C:\Users\AndresHdz\Documents\My_work> git clone https://github.com/microsoft/CameraTraps.git|
```

Clone the repository by typing **git clone** <https://github.com/microsoft/CameraTraps.git> in the Anaconda Powershell Prompt

4.3 Clone the CameraTraps repo

Once cloned, you should have a **CameraTraps** directory, you can check if it is there by typing **ls**.



```
Anaconda Powershell Prompt x + v
(base) PS C:\Users\AndresHdz\Documents> cd CameraTraps
(base) PS C:\Users\AndresHdz\Documents\CameraTraps>
```

Go to the CameraTraps directory by typing **cd CameraTraps**

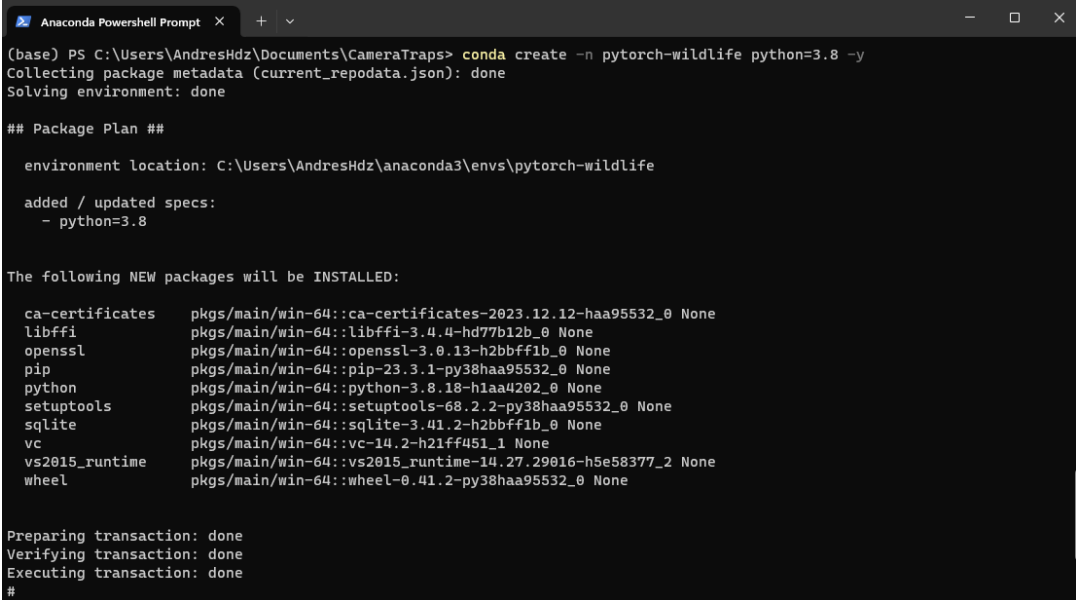
5.1 Create a new conda environment

Following PytorchWildlife's installation instructions, we are going to create a conda environment. Run the following code in your Anaconda Powershell Prompt:

```
conda create -n pytorch-wildlife python=3.8 -y  
conda activate pytorch-wildlife
```

```
(base) PS C:\Users\AndresHdz\Documents\CameraTraps> conda activate pytorch-wildlife  
(pytorch-wildlife) PS C:\Users\AndresHdz\Documents\CameraTraps>
```

You know you have set up the environment correctly once the **(base)** changes to **(pytorch-wildlife)**.



```
Anaconda Powershell Prompt x + v  
(base) PS C:\Users\AndresHdz\Documents\CameraTraps> conda create -n pytorch-wildlife python=3.8 -y  
Collecting package metadata (current_repodata.json): done  
Solving environment: done  
  
## Package Plan ##  
  
environment location: C:\Users\AndresHdz\anaconda3\envs\pytorch-wildlife  
  
added / updated specs:  
- python=3.8  
  
The following NEW packages will be INSTALLED:  
  
ca-certificates pkgs/main/win-64::ca-certificates-2023.12.12-haa95532_0 None  
libffi pkgs/main/win-64::libffi-3.4.4-hd77b12b_0 None  
openssl pkgs/main/win-64::openssl-3.0.13-h2bbff1b_0 None  
pip pkgs/main/win-64::pip-23.3.1-py38haa95532_0 None  
python pkgs/main/win-64::python-3.8.18-h1aa4202_0 None  
setuptools pkgs/main/win-64::setuptools-68.2.2-py38haa95532_0 None  
sqlite pkgs/main/win-64::sqlite-3.41.2-h2bbff1b_0 None  
vc pkgs/main/win-64::vc-14.2-h21ff451_1 None  
vs2015_runtime pkgs/main/win-64::vs2015_runtime-14.27.29016-h5e58377_2 None  
wheel pkgs/main/win-64::wheel-0.41.2-py38haa95532_0 None  
  
Preparing transaction: done  
Verifying transaction: done  
Executing transaction: done  
#
```

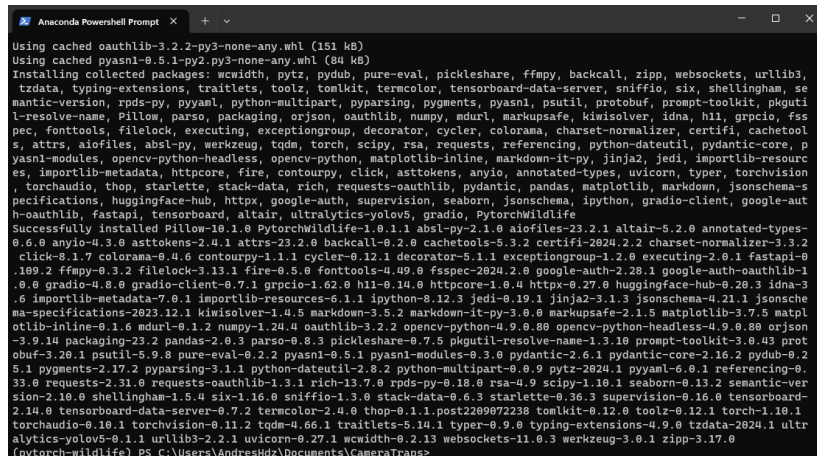
6. Install Pytorch-Wildlife

We have focused on making Pytorch-Wildlife easy to install, you only need to run one command to set it up!

pip install PytorchWildlife

```
(pytorch-wildlife) PS C:\Users\AndresHdz\Documents\CameraTraps> pip install PytorchWildlife
```

Once it is done installing, it will tell you that the installation is complete, **it may take several minutes.**

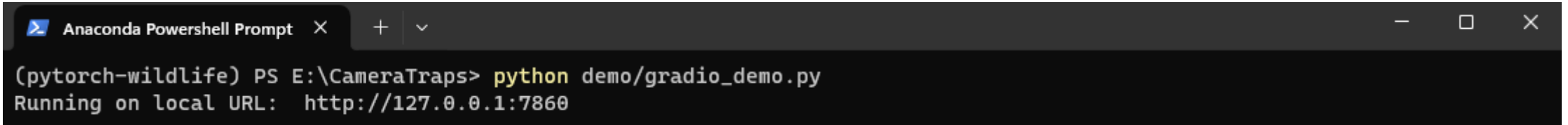


```
Anaconda PowerShell Prompt
Using cached oauthlib-3.2.2-py3-none-any.whl (151 kB)
Using cached pyasn1-0.5.1-py2.py3-none-any.whl (84 kB)
Installing collected packages: wcmidwidth, pytz, pydub, pure-eval, pickleshare, ffmpeg, backcall, zipp, websockets, urllib3,
tzdata, typing-extensions, traitlets, toolz, tomkit, termcolor, tensorboard-data-server, sniffio, six, shellingham, se
mantic-version, rpsd-py, pyyaml, python-multipart, pyparsing, pygments, pyasn1, psutil, protobuf, prompt-toolkit, pkguti
l-resolve-name, pillow, parso, packaging, orjson, oauthlib, numpy, mdurl, markupsafe, kiwisolver, idna, h11, grpcio, fss
pec, fonttools, filelock, executing, exceptiongroup, decorator, cyclor, colorama, charset-normalizer, certifi, cachetool
s, attrs, aiofiles, absl-py, werkzeug, tqdm, torch, scipy, rsa, requests, referencing, python-dateutil, pydantic-core, p
yasn1-modules, opencv-python-headless, opencv-python, matplotlib-inline, markdown-it-py, jinjax2, jedi, importlib-resourc
es, importlib-metadata, httpcore, fire, contourpy, click, asttokens, anyio, annotated-types, uvicorn, typer, torchvision
, torchaudio, thop, starlette, stack-data, rich, requests-oauthlib, pydantic, pandas, matplotlib, markdown, jsonschema-s
pecifications, huggingface-hub, httpx, google-auth, supervision, seaborn, jsonschema, ipython, gradio-client, google-aut
h-oauthlib, fastapi, tensorboard, altair, ultralytics-yolov5, gradio, PytorchWildlife
Successfully installed pillow-10.1.0 PytorchWildlife-1.0.1.1 absl-py-2.1.0 aiofiles-23.2.1 altair-5.2.0 annotated-types-
0.6.0 anyio-4.3.0 asttokens-2.4.1 attrs-23.2.0 backcall-0.2.0 cachetools-5.3.2 certifi-2024.2.2 charset-normalizer-3.3.2
click-8.1.7 colorama-0.4.6 contourpy-1.1.1 cyclor-0.12.1 decorator-5.1.1 exceptiongroup-1.2.0 executing-2.0.1 fastapi-0
.109.2 ffmpeg-0.3.2 filelock-3.13.1 fire-0.5.0 fonttools-4.49.0 fsspec-2024.2.0 google-auth-2.28.1 google-auth-oauthlib-1
.0.0 gradio-4.8.0 gradio-client-0.7.1 grpcio-1.62.0 h11-0.14.0 httpcore-1.0.4 httpx-0.27.0 huggingface-hub-0.20.3 idna-3
.0 importlib-metadata-7.0.1 importlib-resources-6.1.1 ipython-8.12.3 jedi-0.19.1 jinjax2-3.1.3 jsonschema-4.21.1 jsonsche
ma-specifications-2023.12.1 kiwisolver-1.4.5 markdown-3.5.2 markdown-it-py-3.0.0 markupsafe-2.1.5 matplotlib-3.7.5 matpl
otlib-inline-0.1.6 mdurl-0.1.2 numpy-1.24.0 oauthlib-3.2.2 opencv-python-4.9.0.80 opencv-python-headless-4.9.0.80 orjson
-3.9.14 packaging-23.2 pandas-2.0.3 parso-0.8.3 pickleshare-0.7.5 pkgutil-resolve-name-1.3.10 prompt-toolkit-3.0.43 prot
obuf-3.20.1 psutil-5.9.0 pure-eval-0.2.2 pyasn1-0.5.1 pyasn1-modules-0.3.0 pydantic-2.6.1 pydantic-core-2.16.2 pydub-0.2
5.1 pygments-2.17.2 pyparsing-3.1.1 python-dateutil-2.8.2 python-multipart-0.0.9 pytz-2024.1 pyyaml-6.0.1 referencing-0
.33.0 requests-2.31.0 requests-oauthlib-1.3.1 rich-13.7.0 rpsd-py-0.18.0 rsa-4.9.0 scipy-1.10.1 seaborn-0.13.2 semantic-ver
sion-2.10.0 shellingham-1.5.4 six-1.16.0 sniffio-1.3.0 stack-data-0.6.3 starlette-0.36.3 supervision-0.16.0 tensorboard-
2.14.0 tensorboard-data-server-0.7.2 termcolor-2.4.0 thop-0.1.1.post2209072238 tomkit-0.12.0 toolz-0.12.1 torch-1.10.1
torchaudio-0.10.1 torchvision-0.11.2 tqdm-4.66.1 traitlets-5.14.1 typer-0.9.0 typing-extensions-4.0.0 tzdata-2024.1 ultr
alytics-yolov5-0.1.1 urllib3-2.2.1 uvicorn-0.27.1 wcmidwidth-0.2.13 websockets-11.0.3 werkzeug-3.0.1 zipp-3.17.0
(pytorch-wildlife) PS C:\Users\AndresHdz\Documents\CameraTraps>
```

7.1 Start using our demo!

PytorchWildlife comes with a set of instruction for people with and without technical knowledge! If you want to load our user interface, run the following command (Make sure your path is in the CameraTraps folder):

python demo/gradio_demo.py



```
Anaconda Powershell Prompt x + v
(pytorch-wildlife) PS E:\CameraTraps> python demo/gradio_demo.py
Running on local URL: http://127.0.0.1:7860
```

Once loaded, the Anaconda Powershell Prompt Will show a URL to access the demo, copy and paste it in your web browser without closing the Powershell.

7.2 Start using our demo!

Once you paste the URL to your web browser, you can start using the demo!

Please remember that this demo uses the processing capabilities from your local computer.

