

DeepLabCut AI Residency

Day 1 Session 2: Installation guide

July 30 & August 1, 2025
McGill University, Montreal

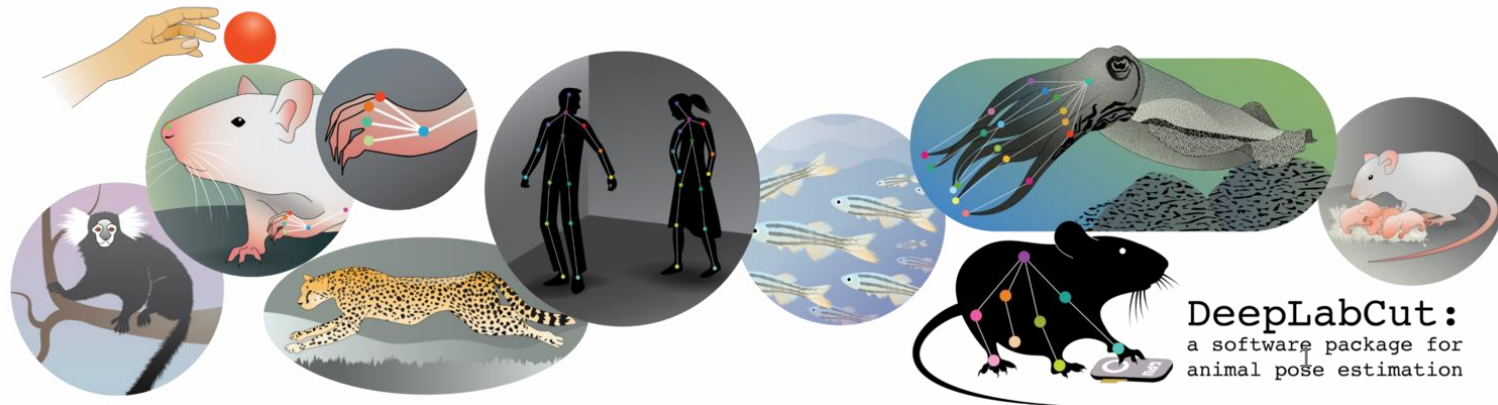
Jiayue Yang
Vic Shao-Chinh Chiang



DeepLabCut
AI Residency
next-gen animal behavior



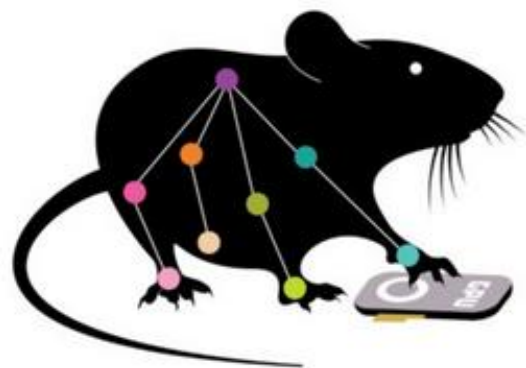
McGill



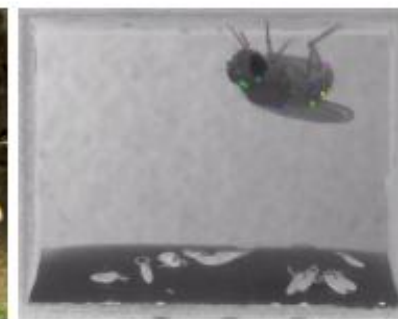
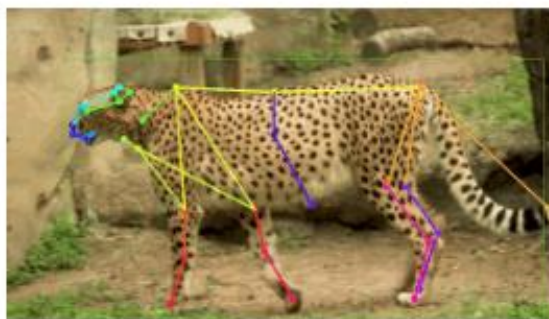
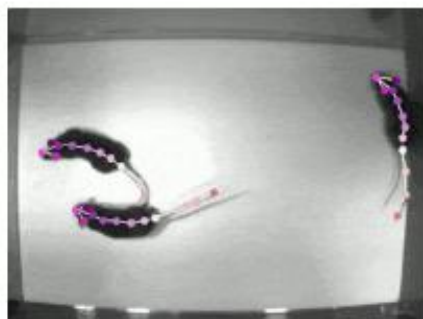
DeepLabCut:
a software package for
animal pose estimation

How to use DeepLabCut?

<https://deeplabcut.github.io/DeepLabCut/README.html#>



DeepLabCutTM
a software package for
animal pose estimation



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Installation guide for DLC

- <https://deeplabcut.github.io/DeepLabCut/docs/installation.html>
- <https://deeplabcut.github.io/DeepLabCut/docs/recipes/installTips.html>

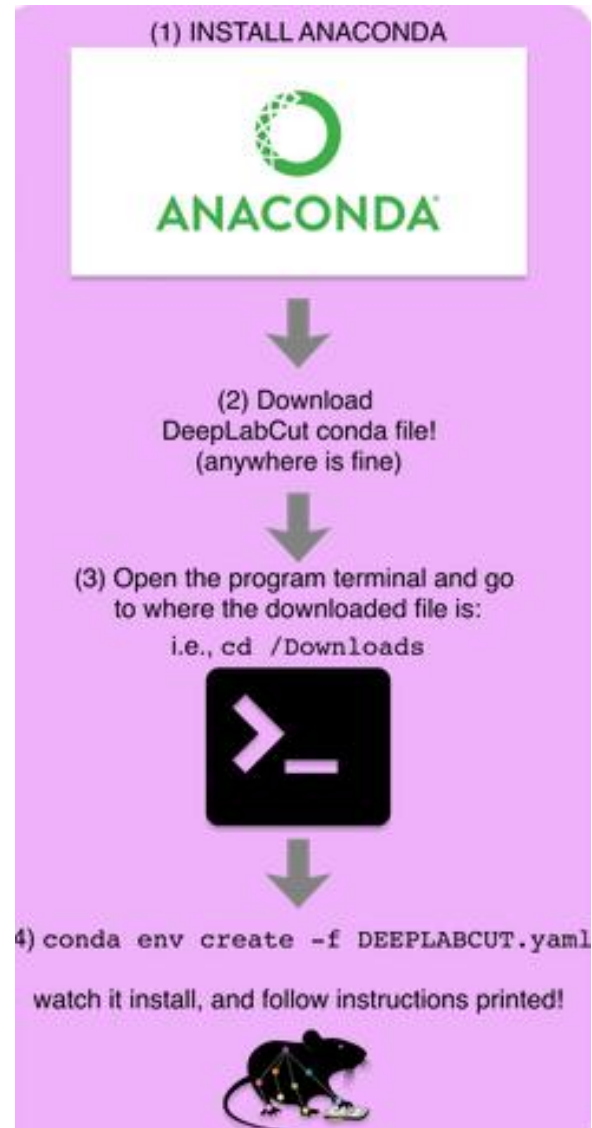


Anaconda Prompt



Windows

DLC Installation guide (Conda)



DLC Installation guide with Anaconda Prompt

Step 1: Anaconda download

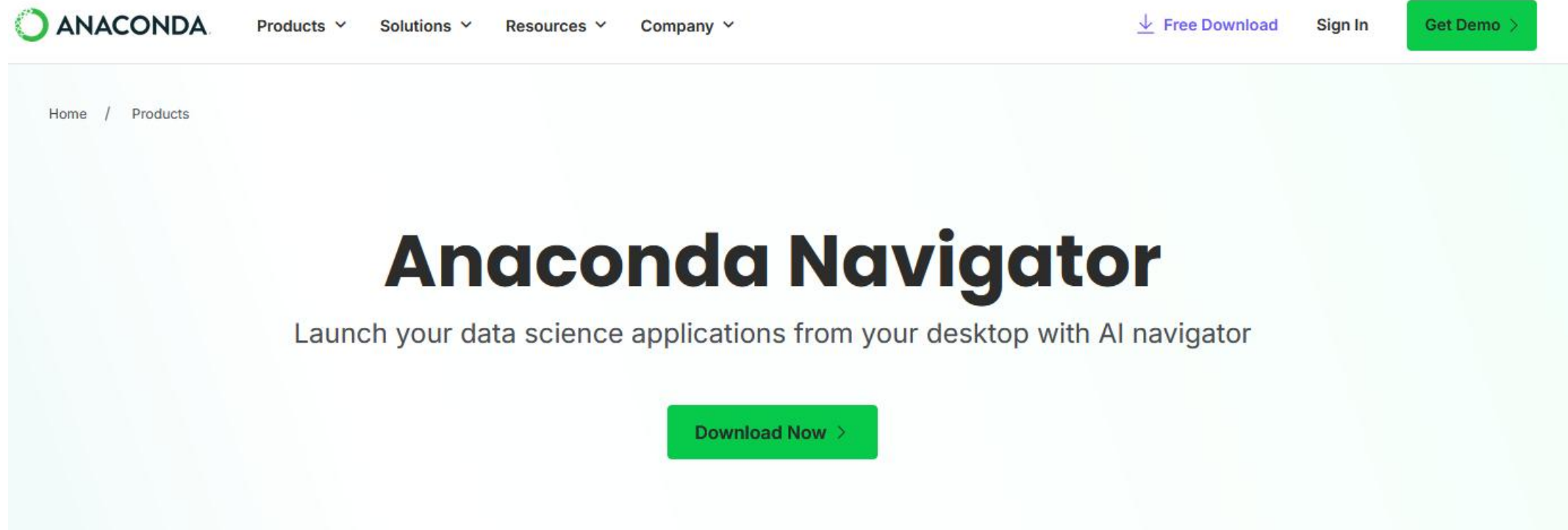
→ <https://www.anaconda.com/download>

→ If you are using M1/M2 chips in your MacBook with v12.5+ (typically 2020 or newer machines)

→ Miniconda3 if more recommended

→ <https://docs.conda.io/projects/conda/en/latest/user-guide/install/macos.html>

→ Then use the program “terminal”

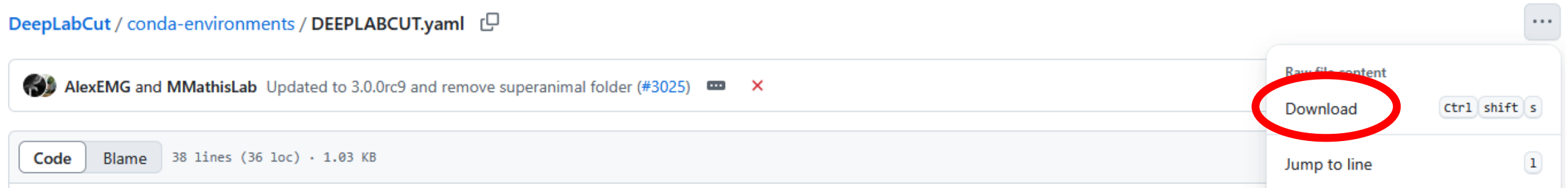


DLC Installation guide with Anaconda Prompt

Step 2: Download the .yaml file and create DLC env

→ (optional) conda install -c anaconda git

→ <https://github.com/DeepLabCut/DeepLabCut/blob/main/conda-environments/DEEPLABCUT.yaml>



DLC Installation guide with Anaconda Prompt

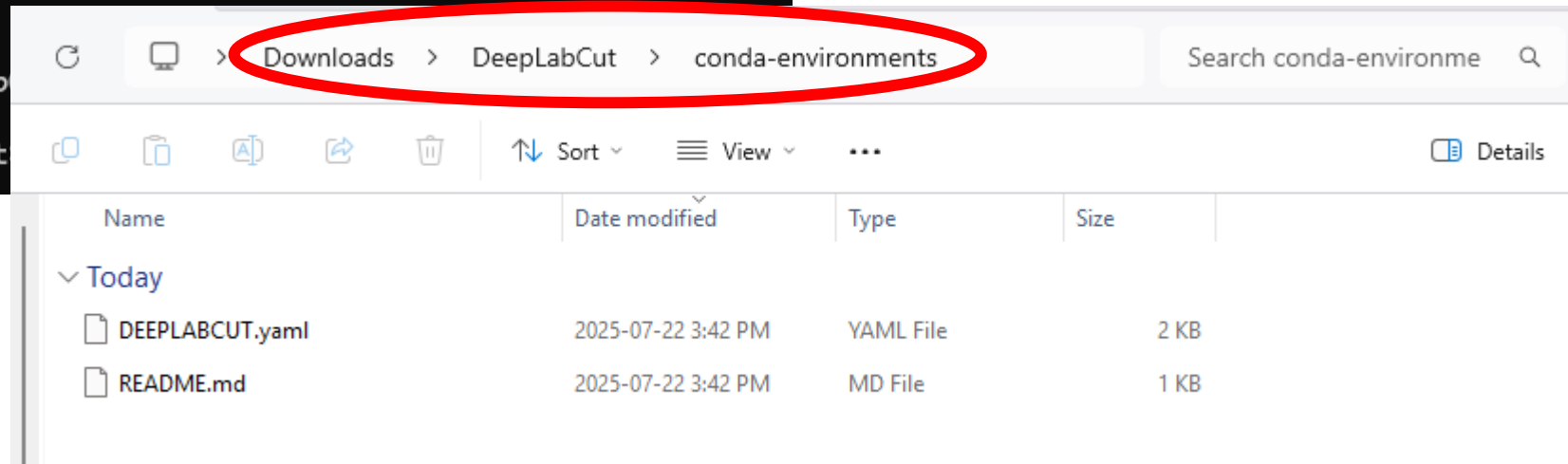
→ git clone <https://github.com/DeepLabCut/DeepLabCut.git>

→ Navigate to the “conda-environments” folder within downloaded “DeepLabCut”

```
(base) C:\Users\jyang291\Downloads>git clone https://github.com/DeepLabCut/DeepLabCut.git
Cloning into 'DeepLabCut'...
remote: Enumerating objects: 25818, done.
remote: Counting objects: 100% (548/548), done.
remote: Compressing objects: 100% (178/178), done.
remote: Total 25818 (delta 468), reused 370 (delta 370), pack-reused 25270 (from 2)
Receiving objects: 100% (25818/25818), 196.56 MiB | 18.89 MiB/s, done.
Resolving deltas: 100% (18160/18160), done.
```

```
(base) C:\Users\jyang291\Downloads>cd DeepLabCut
```

```
(base) C:\Users\jyang291\Downloads\DeepLabCut
```



DLC Installation guide with Anaconda Prompt

Step 3: for Windows:

→ `conda env create -f DEEPLABCUT.yaml`



Might take a while...

```
Successfully installed Pillow-11.3.0 PyOpenGL-3.1.9 PySide6-Addons-6.4.2 PySide6-Essentials-6.4.2 Shapely-2.1.1 alabast2
done
#
# To activate this environment, use
#
#     $ conda activate DEEPLABCUT
#
# To deactivate an active environment, use
#
#     $ conda deactivate
```

DLC installed!!

DLC Installation guide with Anaconda Prompt

→ Close and re-open Anaconda Prompt

Then:

→ activate DEEPLABCUT

→ ipython

→ import deeplabcut

→ Launch GUI:

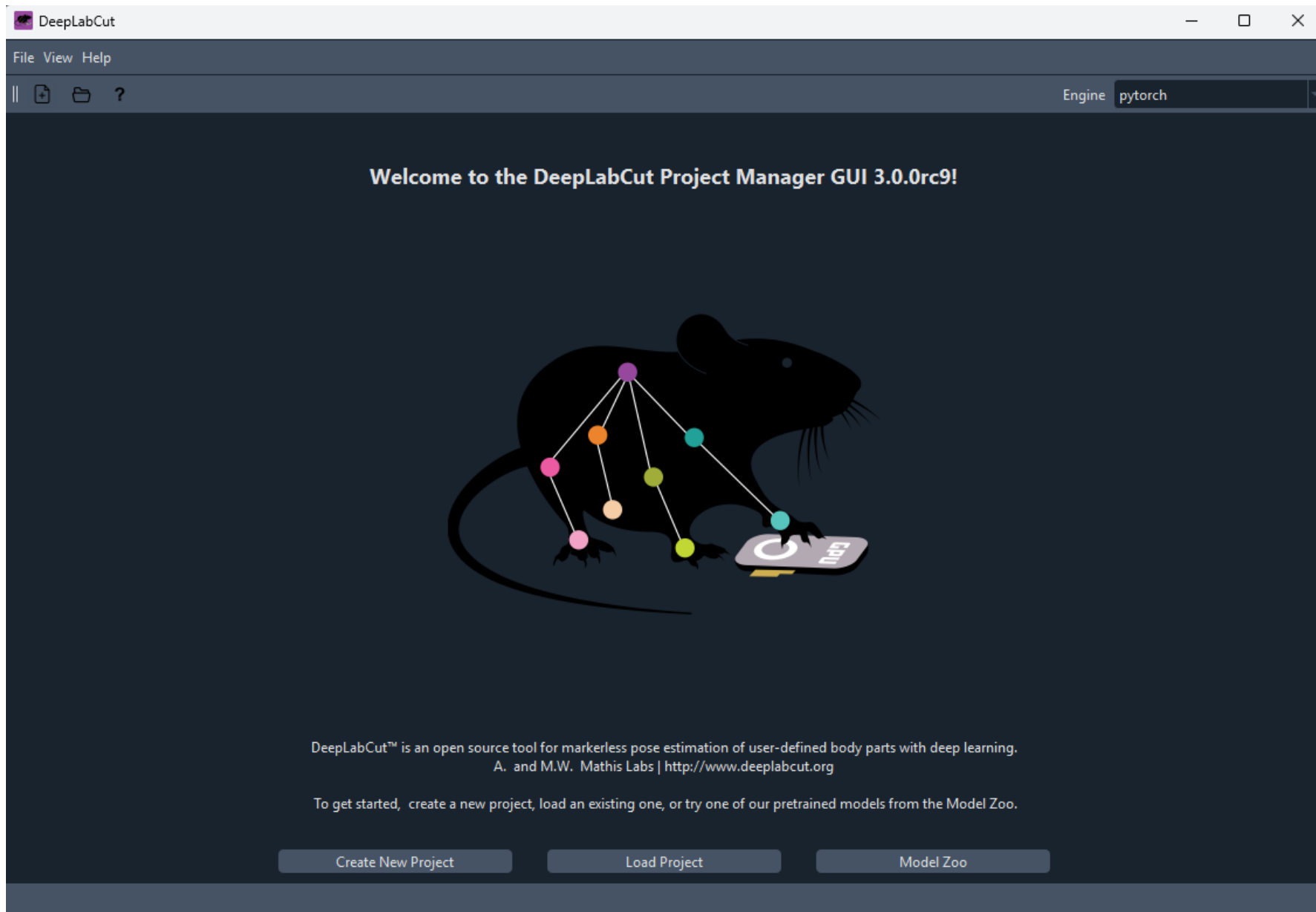
→ `deeplabcut.launch_dlc()`

```
(base) C:\>activate DEEPLABCUT

(DEEPLABCUT) C:\>ipython
Python 3.10.18 | packaged by conda-forge | (main, Jun 4 2025, 14:42:04) [MSC v.1943 64 bit (AMD64)]
Type 'copyright', 'credits' or 'license' for more information
IPython 8.37.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: import deeplabcut
Loading DLC 3.0.0rc9...

In [2]: deeplabcut.launch_dlc()
QPixmap::scaled: QPixmap is a null pixmap
Loading DLC 3.0.0rc9...
|
```



DLC Graphic User Interface (GUI)

Tips: Specific version of DLC

Once you are inside your environments, you can:

- Upgrade DLC version by:
 - `pip install --upgrade deeplabcut`
- Install specific DLC version by:
 - `pip install deeplabcut==3.0` (or any version number)

Checking the DLC version could be done by:

- `import deeplabcut`
- `deeplabcut.__version__`