

# Code Requirements:

## Dependencies:

- torchaudio=2.0.0=py310\_cu118
- platformdirs=2.5.2=py310h06a4308\_0
- libnjpeg=11.9.0.86=0
- virtualenv=20.17.1=py310hff52083\_0
- ld\_impl\_linux-64=2.38=h1181459\_1
- python=3.10.10=h7a1cb2a\_2
- brotli=0.7.0=py310h7f8727e\_1002
- libdeflate=1.17=h5eee18b\_0
- intel-openmp=2021.4.0=h06a4308\_3561
- configargparse=1.5.3=pyhd8ed1ab\_0
- tk=8.6.12=h1ccaba5\_0
- numpy=1.23.5=py310hd5efca6\_0
- libtasn1=4.19.0=h5eee18b\_0
- identify=2.5.22=pyhd8ed1ab\_0
- cfgv=3.3.1=pyhd8ed1ab\_0
- mkl\_random=1.2.2=py310h00e6091\_0
- zlib=1.2.13=h5eee18b\_0
- jpeg=9e=h5eee18b\_1
- pytorch-cuda=11.8=h7e8668a\_3
- certifi=2022.12.7=pyhd8ed1ab\_0
- pycparser=2.21=pyhd3eb1b0\_0
- lz4-c=1.9.4=h6a678d5\_0
- cuda-nvrtc=11.8.89=0
- six=1.16.0=pyhd3eb1b0\_1
- numpy-base=1.23.5=py310h8e6c178\_0
- mkl\_fft=1.3.1=py310hd6ae3a3\_0
- libcufile=1.6.0.25=0
- libidn2=2.3.2=h7f8727e\_0
- x264=1!157.20191217=h7b6447c\_0
- lame=3.100=h7b6447c\_0
- readline=8.2=h5eee18b\_0
- ca-certificates=2022.12.7=ha878542\_0
- networkx=2.8.4=py310h06a4308\_1
- libvpx=1.7.0=h439df22\_0
- giflib=5.2.1=h5eee18b\_3
- torchtriton=2.0.0=py310
- pre-commit=3.2.2=pyha770c72\_0
- wheel=0.38.4=py310h06a4308\_0
- lerc=3.0=h295c915\_0
- pysocks=1.7.1=py310h06a4308\_0
- blas=1.0=mkl
- libcuparse=11.7.5.86=0
- idna=3.4=py310h06a4308\_0

- cryptography=39.0.1=py310h9ce1e76\_0
- libtiff=4.5.0=h6a678d5\_2
- gnutls=3.6.15=he1e5248\_0
- setuptools=65.6.3=py310h06a4308\_0
- ncurses=6.4=h6a678d5\_0
- libcublas=11.11.3.6=0
- ukkonen=1.0.1=py310hbf28c38\_2
- pytorch=2.0.0=py3.10\_cuda11.8\_cudnn8.7.0\_0
- \_openmp\_mutex=5.1=1\_gnu
- pyopenssl=23.0.0=py310h06a4308\_0
- cuda-nvtx=11.8.86=0
- sqlite=3.41.2=h5eee18b\_0
- openh264=2.1.1=h4ff587b\_0
- libpng=1.6.39=h5eee18b\_0
- gmpy2=2.1.2=py310heeb90bb\_0
- mkl-service=2.4.0=py310h7f8727e\_0
- libcurand=10.3.2.56=0
- libgomp=11.2.0=h1234567\_1
- xz=5.2.10=h5eee18b\_1
- lcms2=2.12=h3be6417\_0
- pyyaml=6.0=py310h5764c6d\_4
- bzip2=1.0.8=h7b6447c\_0
- nettle=3.7.3=hbbd107a\_1
- typing\_extensions=4.4.0=py310h06a4308\_0
- libwebp=1.2.4=h11a3e52\_1
- freetype=2.12.1=h4a9f257\_0
- torchvision=0.15.0=py310\_cu118
- openssl=1.1.1t=h7f8727e\_0
- mkl=2021.4.0=h06a4308\_640
- libcusolver=11.4.1.48=0
- cuda-cudart=11.8.89=0
- libunistring=0.9.10=h27cfd23\_0
- flit-core=3.8.0=py310h06a4308\_0
- distlib=0.3.6=py

## **Dataset Details:**

We evaluate our SLA framework on Office-Home and DomainNet datasets, popular benchmarks for Semi-Supervised Domain Adaptation (SSDA). Office-Home includes four domains: Art, Clipart, Product, and Real-World, covering a total of 65 categories such as Backpack, Desk, Keyboard, Mug, and Table. On the other hand, DomainNet comprises four domains: Clipart, Infograph, Painting, and Quickdraw, with a broader set of 126 classes including Airplane, Bicycle, Car, Dog, Elephant, and Frog. We adhere to standard sampling strategies and conduct 3-shot experiments to assess the performance of our framework

Office-Home url - <https://wjdcloud.blob.core.windows.net/dataset/OfficeHome.zip>

DomainNet url - <http://csr.bu.edu/ftp/visda/2019/multi-source>

## **Github Repository Citation :**

**@project assets**

```
@InProceedings{Yu_2023_CVPR,  
  author    = {Yu, Yu-Chu and Lin, Hsuan-Tien},  
  title     = {Semi-Supervised Domain Adaptation With Source Label Adaptation},  
  booktitle = {Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern  
Recognition (CVPR)},  
  month     = {June},  
  year      = {2023},  
  pages     = {24100-24109}  
}
```

**Github url -** <https://github.com/chu0802/SLA.git>