

# Yolov7-maskのインストール

(仮想環境の構築)

「NvidiaのGPU」, 「anaconda」がインストールされていることが前提で、話を進めます.

<https://www.youtube.com/watch?v=tq0GI4FahWU&t=1709s>

↑のチュートリアル動画を参考に説明していきますが、  
動画の内容から一部修正しないとうまくいかない部分があります

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NEW  
Anaconda Toolbox  
Supercharged  
local notebooks.  
Click the Toolbox  
tile to install.

Documentation

Anaconda Blog



Search Environments



Tensorflow001

Tensorflow\_pip

Test

Test001

Test003

TestTest



invpt

testmediapipe

yolov7

yolov7\_maskVer2

yolov7\_pose



Create



Clone



Import



Backup



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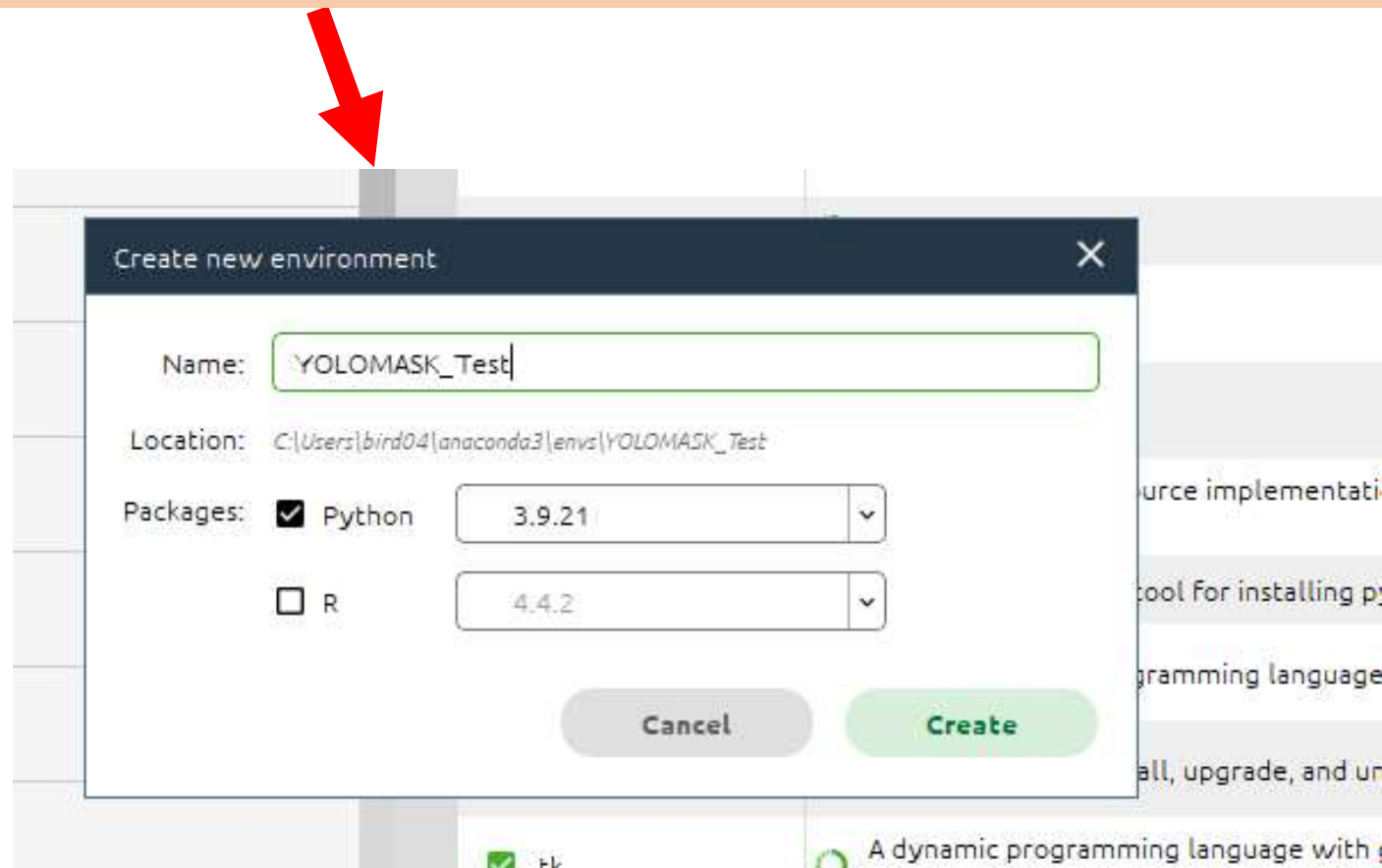
Search Packages

Name	Description	Version
ca-certificates	Certificates for use with other packages.	2024.2.2
libffi	A portable foreign function interface library	3.4.2
libsqlite		3.45.3
libzlib		1.2.13
openssl	Openssl is an open-source implementation of the ssl and tls protocols	3.3.0
pip	Pypa recommended tool for installing python packages	24.0
python	General purpose programming language	3.9.19
setuptools	Download, build, install, upgrade, and uninstall python packages	69.5.1
tk	A dynamic programming language with gui support. bundles tcl and tk.	8.6.13
tzdata	The time zone database (called tz, tzdb or zoneinfo)	2024a
ucrt	Redistributable Files for windows sdk. this is only needed windo...	10.0.226...
vc	A meta-package to impose mutual exclusivity among software built with different vs versions	14.3
vc14_runtime		14.38.33...
vs2015_runtime	Msvc runtimes associated with cl.exe version 19.27.29111 (vs 2019 update 5)	14.38.33...
wheel	A built-package format for python.	0.43.0
xz	Data compression software with high compression ratio	5.2.6

17 packages available

仮想環境を作ってください

名前は何でもよいです（日本語でない方がよいと思います）。  
Python3.9.21で問題なく動作しました



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De

HRNet\_Pose

PyTorch

Rembg

SMPL

Tensorflow001

Name

T

Description

Version

libffi

A portable foreign function interface library

3.4.2

libsqlite

3.45.3

libzlib

1.2.13

openssl

Openssl is an open-source implementation of the ssl and tls prot...

3.3.0

pip

Pypa recommended tool for installing python packages

24.0

python

General purpose programming language

3.9.19

作った環境のターミナルを開いてください。

Test

Test001

Test003

TestTest

TestTest02

tz

The time zone database (called tz, tzdb or zoneinfo)

2024a

vc14\_runtime

Redistributable files for windows sdk, this is only needed windows

10.0.226...

vc14\_runtime

A meta-package to impose mutual exclusivity among software

14.3

vs2015\_runtime

Msvc runtimes associated with cl.exe version 19.27.29111 (vs

14.38.33...

vs2015\_runtime

Msvc runtimes associated with cl.exe version 19.27.29111 (vs

14.38.33...

vs2015\_runtime

A built-package format for python.

0.43.0

vs2015\_runtime

Data compression software with high compression ratio

5.2.6

Open Terminal

Open with Python

Open with IPython

Open with Jupyter Notebook

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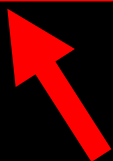
Re

ローカル ディスク (C:)

23 個の項目

C:\WINDOWS\system32\cmd.exe

(YOLOMASK\_Test) C:\Users\bird04>pip install cython



cythonをインストールしてください

```
pip install torch==1.11.0 torchvision==0.12.0 torchaudio==0.11.0
```

## Linux and Windows

```
# ROCM 4.5.2 (Linux only)
pip install torch==1.11.0+rocm4.5.2 torchvision==0.12.0+rocm4.5.2 torchaudio==0.11.0 --extra-index-url http

# CUDA 11.3
pip install torch==1.11.0+cu113 torchvision==0.12.0+cu113 torchaudio==0.11.0 --extra-index-url https://down:

# CUDA 10.2
pip install torch==1.11.0+cu102 torchvision==0.12.0+cu102 torchaudio==0.11.0 --extra-index-url https://down:

# CPU only
pip install torch==1.11.0+cpu torchvision==0.12.0+cpu torchaudio==0.11.0 --extra-index-url https://download.
```

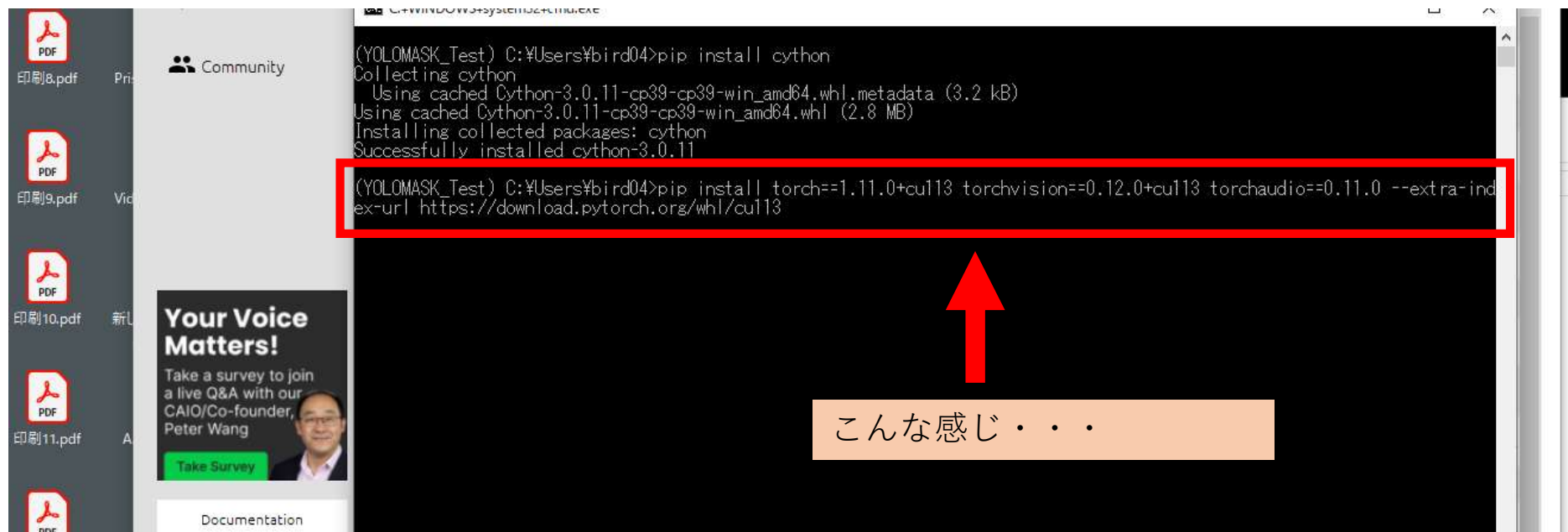
v1.10.1

Conda

OSX

```
# conda
conda install pytorch==1.10.1 torchvision==0.11.2 torchaudio==0.10.1 -c pytorch
```

Pytorchのサイトに行ってこれをインストールしてください。  
このテキストをコピーして、ターミナルに張り付けてエンターキーを押すとインストールできます。



C:\Users\bird04\anaconda3\envs\YOLOMASK\_Test\Lib\site-packages\torch\nn\modules



PCのユーザー名



Anacondaで作った  
仮想環境の名前

このフォルダ内になるupsampling.pyを開いてください。①から②に変更してください。

①

```
149 self.align_corners = align_corners↓
150 self.recompute_scale_factor = recompute_scale_factor↓
151 ↓
152 def forward(self, input: Tensor) -> Tensor:↓
153     return F.interpolate(input, self.size, self.scale_factor, self.mode, self.align_corners,
154                           recompute_scale_factor=self.recompute_scale_factor)↓
155 ↓
156
```



②

```
149 self.align_corners = align_corners↓
150 self.recompute_scale_factor = recompute_scale_factor↓
151 ↓
152 def forward(self, input: Tensor) -> Tensor:↓
153     return F.interpolate(input, self.size, self.scale_factor, self.mode, self.align_corners)
154 ↓
155 def extra_repr(self) -> str:↓
156     if self.scale_factor is not None:↓
```



```
C:\WINDOWS\system32\cmd.exe
Collecting requests (from torchvision==0.12.0+cu113)
  Using cached requests-2.32.3-py3-none-any.whl.metadata (4.6 kB)
Collecting pillow!=8.3.*,>=5.3.0 (from torchvision==0.12.0+cu113)
  Using cached pillow-11.1.0-cp39-cp39-win_amd64.whl.metadata (9.3 kB)
Collecting charset-normalizer<4,>=2 (from requests->torchvision==0.12.0+cu113)
  Using cached charset-normalizer-3.4.1-cp39-cp39-win_amd64.whl.metadata (36 kB)
Collecting idna<4,>=2.5 (from requests->torchvision==0.12.0+cu113)
  Using cached idna-3.10-py3-none-any.whl.metadata (10 kB)
Collecting urllib3<3,>=1.21.1 (from requests->torchvision==0.12.0+cu113)
  Using cached urllib3-2.3.0-py3-none-any.whl.metadata (6.5 kB)
Collecting certifi>=2017.4.17 (from requests->torchvision==0.12.0+cu113)
  Using cached certifi-2024.12.14-py3-none-any.whl.metadata (2.3 kB)
Using cached pillow-11.1.0-cp39-cp39-win_amd64.whl (2.6 MB)
Using cached numpy-2.0.2-cp39-cp39-win_amd64.whl (15.9 MB)
Using cached requests-2.32.3-py3-none-any.whl (64 kB)
Using cached typing_extensions-4.12.2-py3-none-any.whl (37 kB)
Using cached certifi-2024.12.14-py3-none-any.whl (164 kB)
Using cached charset_normalizer-3.4.1-cp39-cp39-win_amd64.whl (102 kB)
Using cached idna-3.10-py3-none-any.whl (70 kB)
Using cached urllib3-2.3.0-py3-none-any.whl (128 kB)
Installing collected packages: urllib3, typing-extensions, pillow, numpy, idna, charset-normalizer, certifi, torch, requests, torchvision, torchaudio
Successfully installed certifi-2024.12.14 charset-normalizer-3.4.1 idna-3.10 numpy-2.0.2 pillow-11.1.0 requests-2.32.3 torch-1.11.0+cu113 torchaudio-0.11.0+cu113 torchvision-0.12.0+cu113 typing-extensions-4.12.2 urllib3-2.3.0

(YOLOMASK_Test) C:\Users\bird04>D:

(YOLOMASK_Test) D:\>cd School2024\YOLOMASK_Test

(YOLOMASK_Test) D:\School2024\YOLOMASK_Test>
```

Yolo-Maskに関するプログラムを保存するフォルダを,  
カレントディレクトリにしてください



The screenshot shows the GitHub repository page for `facebookresearch/detectron2`. A 'Clone' dropdown menu is open, displaying the 'HTTPS' option with the URL `https://github.com/facebookresearch/detectron2` highlighted by a red line and a red arrow pointing to it. The repository page includes a file list on the left, a commit history table at the bottom, and an 'About' section on the right.

File	Commit Message	Time
<code>.clang-format</code>	Cut FOR_EACH_KV	5 years ago
<code>.flake8</code>	Add support for ONNX-only	3 years ago

**About**

Detectron2 is a platform for object detection, segmentation and other visual recognition tasks.

[detectron2.readthedocs.io/en/latest/](https://detectron2.readthedocs.io/en/latest/)

- Readme
- Apache-2.0 license
- Code of conduct
- Security policy
- Activity
- Custom properties
- 31k stars
- 301 watching

on Nov 16, 2021

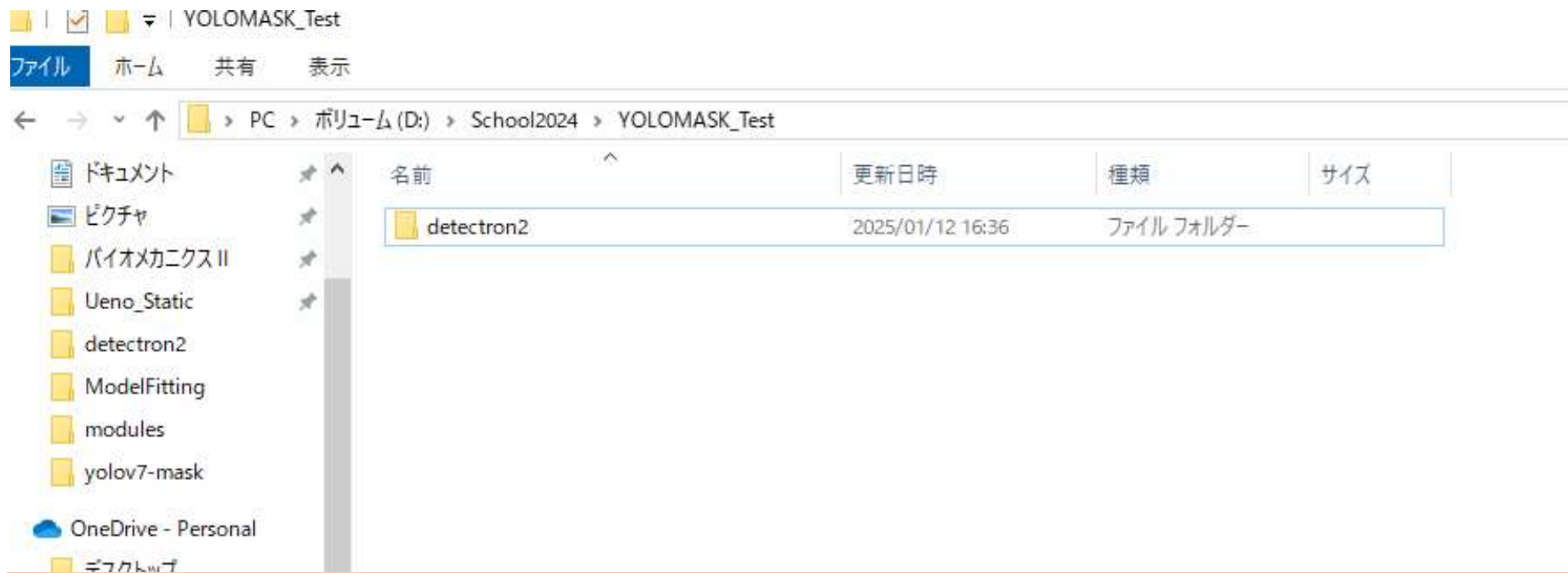
[+ 9 releases](#)

detectron2のページに行って（<https://github.com/facebookresearch/detectron2>），  
このURLをコピーしてください。

```
Using cached certifi-2024.12.14-py3-none-any.whl.metadata (2.3 kB)
Using cached pillow-11.1.0-cp39-cp39-win_amd64.whl (2.6 MB)
Using cached numpy-2.0.2-cp39-cp39-win_amd64.whl (15.9 MB)
Using cached requests-2.32.3-py3-none-any.whl (64 kB)
Using cached typing_extensions-4.12.2-py3-none-any.whl (37 kB)
Using cached certifi-2024.12.14-py3-none-any.whl (164 kB)
Using cached charset_normalizer-3.4.1-cp39-cp39-win_amd64.whl (102 kB)
Using cached idna-3.10-py3-none-any.whl (70 kB)
Using cached urllib3-2.3.0-py3-none-any.whl (128 kB)
Installing collected packages: urllib3, typing-extensions, pillow, numpy, idna, charset-normalizer, certifi, torchs
sts, torchvision, torchaudio
Successfully installed certifi-2024.12.14 charset-normalizer-3.4.1 idna-3.10 numpy-2.0.2 pillow-11.1.0 requests-
rch-1.11.0+cu113 torchaudio-0.11.0+cu113 torchvision-0.12.0+cu113 typing-extensions-4.12.2 urllib3-2.3.0

YOLOMASK_Test) C:\Users\bird04>D:
YOLOMASK_Test) D:\>cd School2024\YOLOMASK_Test
YOLOMASK_Test) D:\School2024\YOLOMASK_Test>git clone https://github.com/facebookresearch/detectron2.git_
```

git clone と打ち込んでから、コピーしたURLを張り付けて実行してください。



カレントディレクトリに「detectron2」ができている。

yolov7 Public

1.5k Pull requests 101 Actions Projects Security Insights

mask 9 Branches 1 Tag

This branch is 10 commits ahead of, 30 commits behind main .

WongKinYiu mask code

- cfg Create yolov7-mask
- data Create hyp.scratch.r
- deploy/triton-inference-server Add Triton Inference
- figure Add files via upload
- inference/images Support dynamic batch for TensorRT and onnxruntime (#329) 3 years ago
- models mask code 3 years ago
- paper main code 3 years ago

Clone

HTTPS GitHub CLI

<https://github.com/WongKinYiu/yolov7.git>

Clone using the web URL.

Open with GitHub Desktop

Download ZIP

About

Implementation of paper - YOLOv7:  
Trainable bag-of-freebies sets new state-of-the-art for real-time object detectors

pytorch darknet yolov3 yolov4  
scaled-yolov4 yolor yolov7

Readme

GPL-3.0 license

Activity

13.5k stars

110 watching

4.2k forks

Report repository

Releases

No packages published

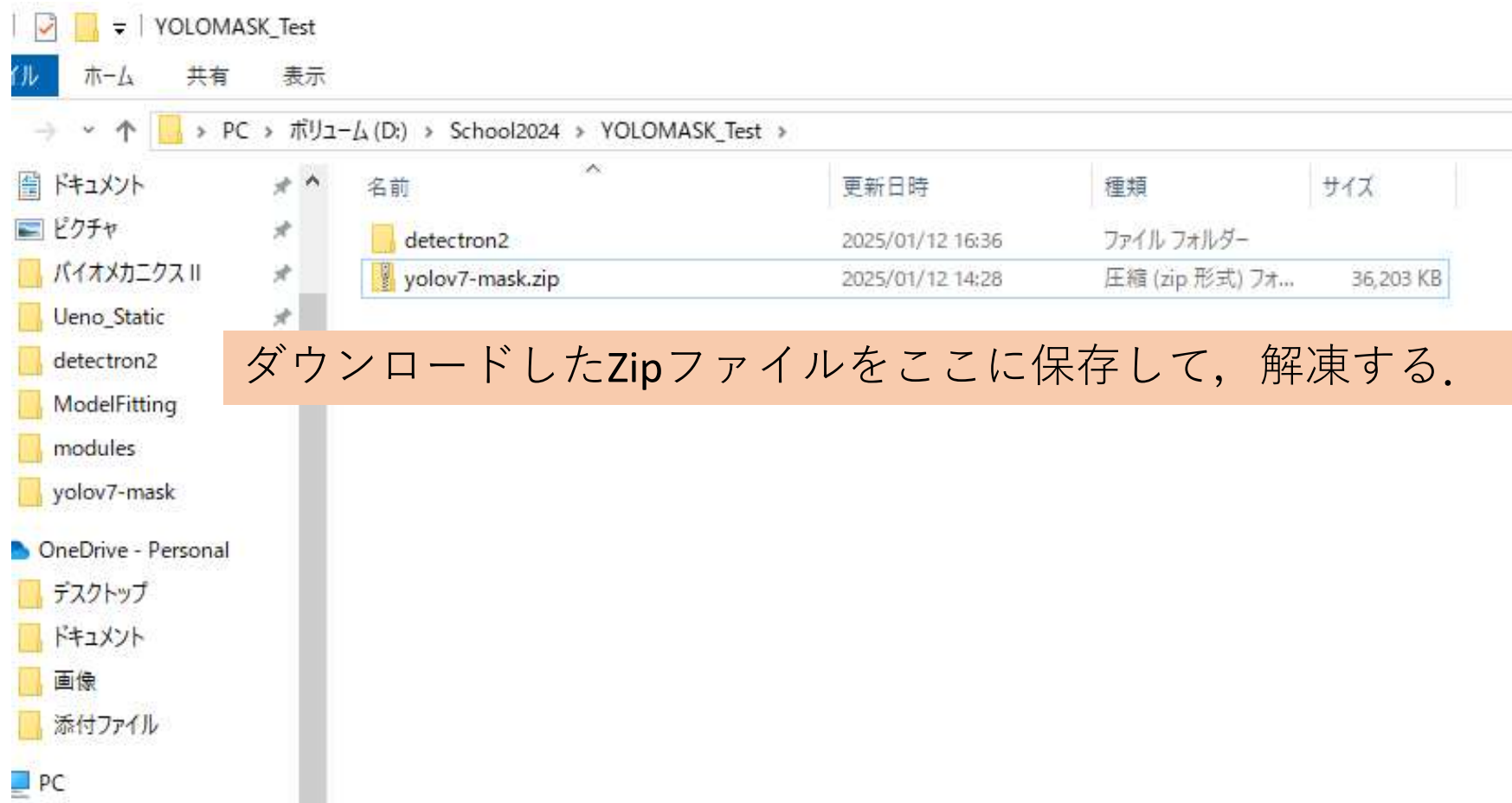
Contributors 29

.gitignore update gitignore (#461) 3 years ago

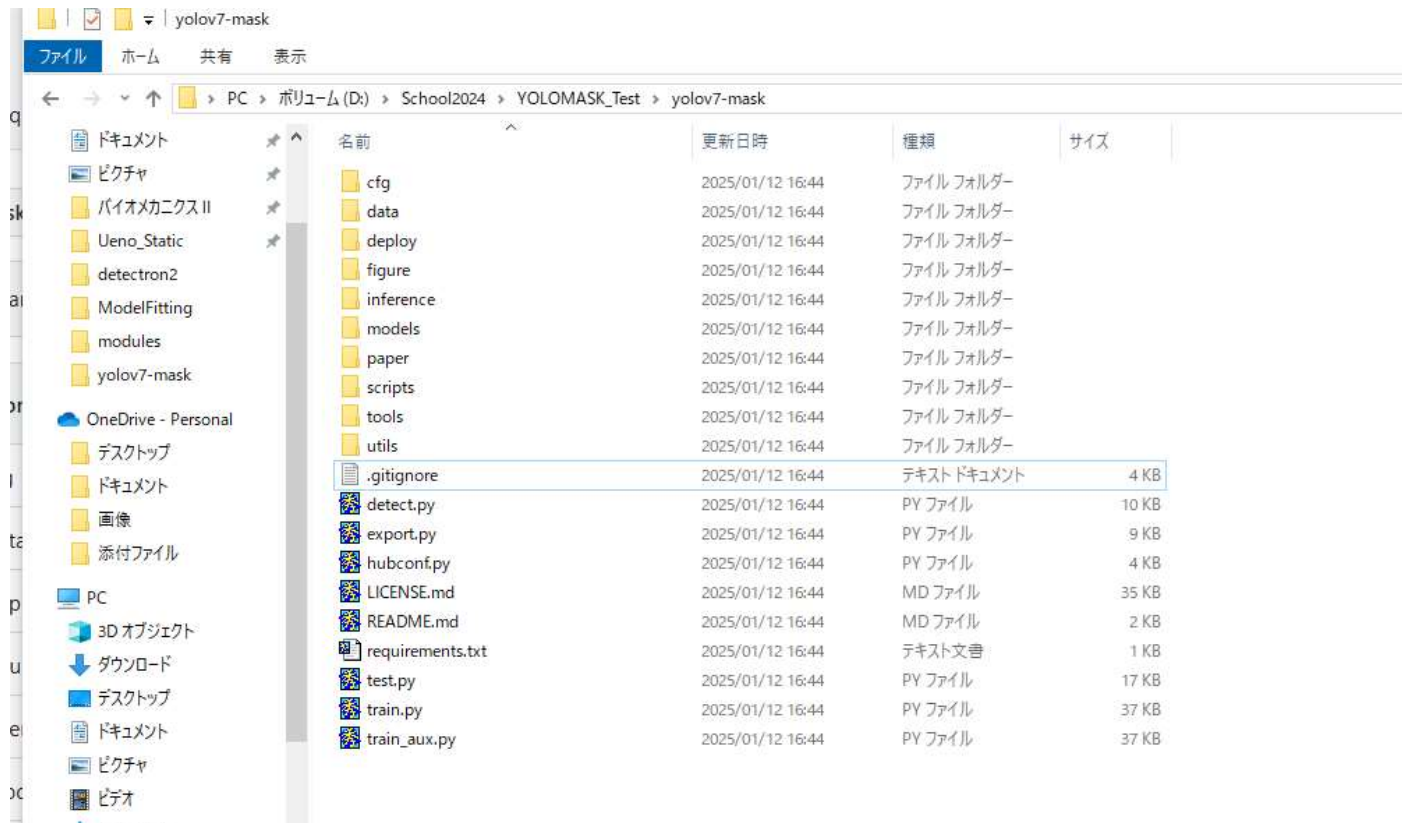
LICENSE.md Create LICENSE.md 3 years ago

yolov7maskのページに行って (<https://github.com/WongKinYiu/yolov7/tree/mask>) , Zipファイルをダウンロードする.

このページの下の方にyolov7-mask.ptがあるので,  
クリックしてモデルファイルをダウンロードしてください.



ダウンロードしたZipファイルをここに保存して、解凍する.



名前	更新日時	種類	サイズ
cfg	2025/01/12 16:44	ファイル フォルダー	
data	2025/01/12 16:44	ファイル フォルダー	
deploy	2025/01/12 16:44	ファイル フォルダー	
figure	2025/01/12 16:44	ファイル フォルダー	
inference	2025/01/12 16:44	ファイル フォルダー	
models	2025/01/12 16:44	ファイル フォルダー	
paper	2025/01/12 16:44	ファイル フォルダー	
scripts	2025/01/12 16:44	ファイル フォルダー	
tools	2025/01/12 16:44	ファイル フォルダー	
utils	2025/01/12 16:44	ファイル フォルダー	
.gitignore	2025/01/12 16:44	テキストドキュメント	4 KB
detect.py	2025/01/12 16:44	PY ファイル	10 KB
export.py	2025/01/12 16:44	PY ファイル	9 KB
hubconf.py	2025/01/12 16:44	PY ファイル	4 KB
LICENSE.md	2025/01/12 16:44	MD ファイル	35 KB
README.md	2025/01/12 16:44	MD ファイル	2 KB
requirements.txt	2025/01/12 16:44	テキスト文書	1 KB
test.py	2025/01/12 16:44	PY ファイル	17 KB
train.py	2025/01/12 16:44	PY ファイル	37 KB
train_aux.py	2025/01/12 16:44	PY ファイル	37 KB

解凍したら、 yolov7-maskのプログラムの階層を1段上げてください。

```
cd/yolov7-mask/yolov7-mask/  
から  
cd/yolov7-mask/  
にしてくださいということです。
```

また、 yolov7-maskの中に、 yolov7-mask.ptを入れてください。



cd/detectron2/setup.pyを開いてください.

①から②にコードを書き加えてください.

注：これをしないとエラーが出ます。とても重要です.

①

```
52 if is_rocm_pytorch:
53     assert torch_ver >= [1, 8], "ROCM support requires PyTorch >= 1
54
55 # common code between cuda and rocm platforms, for hipify version [
56 source_cuda = glob.glob(path.join(extensions_dir, "**", "*.cu")) +
57     path.join(extensions_dir, "*.cu")
58 )
59 sources = [main_source] + sources
60
61 extension = CppExtension
62
63 extra_compile_args = {"cxx": []}
64 define_macros = []
65
66 if (torch.cuda.is_available() and ((CUDA_HOME is not None) or is_ro
67     "FORCE_CUDA", "0"
68 ) == "1":
69     extension = CUDAExtension
70     sources += source_cuda
71
72 if not is_rocm_pytorch:
73     define_macros += [("WITH_CUDA", None)]
74     extra_compile_args["nvcc"] = [
75         "-O3",
76         "-DCUDA_HAS_FP16=1",
77         "-D__CUDA_NO_HALF_OPERATORS__",
78         "-D__CUDA_NO_HALF_CONVERSIONS__",
79         "-D__CUDA_NO_HALF2_OPERATORS__",
80     ]
81 else:
82     define_macros += [("WITH_HIP", None)]
83     extra_compile_args["nvcc"] = []
84
85 nvcc_flags_env = os.getenv("NVCC_FLAGS", "")
86 if nvcc_flags_env != "":
87     extra_compile_args["nvcc"].extend(nvcc_flags_env.split(" "))
88
```



②

```
52 if is_rocm_pytorch:
53     assert torch_ver >= [1, 8], "ROCM support requires PyTorch >= 1
54
55 # common code between cuda and rocm platforms, for hipify version [
56 source_cuda = glob.glob(path.join(extensions_dir, "**", "*.cu")) +
57     path.join(extensions_dir, "*.cu")
58 )
59 sources = [main_source] + sources
60
61 extension = CppExtension
62
63 extra_compile_args = {"cxx": []}
64 define_macros = []
65
66 if (torch.cuda.is_available() and ((CUDA_HOME is not None) or is_ro
67     "FORCE_CUDA", "0"
68 ) == "1":
69     extension = CUDAExtension
70     sources += source_cuda
71
72 if not is_rocm_pytorch:
73     define_macros += [("WITH_CUDA", None)]
74     extra_compile_args["nvcc"] = [
75         "-O3",
76         "-DCUDA_HAS_FP16=1",
77         "-D__CUDA_NO_HALF_OPERATORS__",
78         "-D__CUDA_NO_HALF_CONVERSIONS__",
79         "-D__CUDA_NO_HALF2_OPERATORS__",
80         "-DWITH_CUDA",
81     ]
82 else:
83     define_macros += [("WITH_HIP", None)]
84     extra_compile_args["nvcc"] = []
85
86 nvcc_flags_env = os.getenv("NVCC_FLAGS", "")
87 if nvcc_flags_env != "":
88     extra_compile_args["nvcc"].extend(nvcc_flags_env.split(" "))
89
```

cd/detectron2/setup.pyのコードを変更したら,  
カレントディレクトリをdetectron2にしてください.

```
Using cached numpy-2.0.2-cp39-cp39-win_amd64.whl (15.9 MB)
Using cached requests-2.32.3-py3-none-any.whl (64 kB)
Using cached typing_extensions-4.12.2-py3-none-any.whl (37 kB)
(D: Using cached certifi-2024.12.14-py3-none-any.whl (164 kB)
Using cached charset_normalizer-3.4.1-cp39-cp39-win_amd64.whl (102 kB)
Using cached idna-3.10-py3-none-any.whl (70 kB)
Using cached urllib3-2.3.0-py3-none-any.whl (128 kB)
Installing collected packages: urllib3, typing-extensions, pillow, numpy, idna, charset-normalizer, certifi, to
ests, torchvision, torchaudio
Successfully installed certifi-2024.12.14 charset-normalizer-3.4.1 idna-3.10 numpy-2.0.2 pillow-11.1.0 requests
orch-1.11.0+cu113 torchaudio-0.11.0+cu113 torchvision-0.12.0+cu113 typing-extensions-4.12.2 urllib3-2.3.0

(YOLOMASK_Test) C:\Users\bird04>D:

(YOLOMASK_Test) D:\>cd School2024\YOLOMASK_Test

(YOLOMASK_Test) D:\School2024\YOLOMASK_Test>git clone https://github.com/facebookresearch/detectron2.git
Cloning into 'detectron2'...
remote: Enumerating objects: 15832, done.
remote: Counting objects: 100% (62/62), done.
remote: Compressing objects: 100% (50/50), done.
remote: Total 15832 (delta 27), reused 12 (delta 12), pack-reused 15770 (from 2)
Receiving objects: 100% (15832/15832), 6.40 MiB | 3.76 MiB/s, done.
Resolving deltas: 100% (11529/11529), done.

(YOLOMASK_Test) D:\School2024\YOLOMASK_Test>cd detectron2

(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\detectron2>
(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\detectron2>
(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\detectron2>
```

pip install -e .  
と打ち込んで実行してください。

```
Using cached certifi-2024.12.14-py3-none-any.whl (164 kB)
Using cached charset_normalizer-3.4.1-cp39-cp39-win_amd64.whl (102 kB)
Using cached idna-3.10-py3-none-any.whl (70 kB)
Using cached urllib3-2.3.0-py3-none-any.whl (128 kB)
Installing collected packages: urllib3, typing-extensions, pillow, numpy, idna, charset-normalizer, certifi, torch, torchvision, torchaudio
Successfully installed certifi-2024.12.14 charset-normalizer-3.4.1 idna-3.10 numpy-2.0.2 pillow-11.1.0 request-
torch-1.11.0+cu113 torchaudio-0.11.0+cu113 torchvision-0.12.0+cu113 typing-extensions-4.12.2 urllib3-2.3.0

(YOLOMASK_Test) C:\Users\bird04>D:

(YOLOMASK_Test) D:\>cd School2024\YOLOMASK_Test

(YOLOMASK_Test) D:\School2024\YOLOMASK_Test>git clone https://github.com/facebookresearch/detectron2.git
Cloning into 'detectron2'...
remote: Enumerating objects: 15832, done.
remote: Counting objects: 100% (62/62), done.
remote: Compressing objects: 100% (50/50), done.
remote: Total 15832 (delta 27), reused 12 (delta 12), pack-reused 15770 (from 2)
Receiving objects: 100% (15832/15832), 6.40 MiB | 3.76 MiB/s, done.
Resolving deltas: 100% (11529/11529), done.

(YOLOMASK_Test) D:\School2024\YOLOMASK_Test>cd detectron2

(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\detectron2>
(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\detectron2>
(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\detectron2>pip install -e .
```



数分かかりますが、下のようになったら成功です。

```
C:\WINDOWS\system32\cmd.exe
Using cached six-1.17.0-py2.py3-none-any.whl (11 kB)
Using cached tensorboard_data_server-0.7.2-py3-none-any.whl (2.4 kB)
Using cached tomli-2.2.1-py3-none-any.whl (14 kB)
Using cached werkzeug-3.1.3-py3-none-any.whl (224 kB)
Using cached colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Using cached portalocker-3.1.1-py3-none-any.whl (19 kB)
Using cached importlib_metadata-8.5.0-py3-none-any.whl (26 kB)
Using cached MarkupSafe-3.0.2-cp39-cp39-win_amd64.whl (15 kB)
Using cached pywin32-308-cp39-cp39-win_amd64.whl (6.6 MB)
Using cached zipp-3.21.0-py3-none-any.whl (9.6 kB)
Installing collected packages: pywin32, antlr4-python3-runtime, zipp, tomli, termcolor, tensorboard-data-server, tabulate, six, pyyaml, pyparsing, protobuf, portalocker, platformdirs, pathspec, packaging, mpy-extensions, MarkupSafe, kiwisolver, grpcio, fonttools, cyclo, contourpy, colorama, cloudpickle, absl-py, yacs, werkzeug, tqdm, python-dateutil, omegaconf, importlib-resources, importlib-metadata, click, matplotlib, markdown, iopath, hydra-core, black, tensorboard, pycocotools, fvcore, detectron2
DEPRECATION: Legacy editable install of detectron2==0.6 from file:///D:/School2024/YOLOMASK_Test/detectron2 (setup.py develop) is deprecated. pip 25.0 will enforce this behaviour change. A possible replacement is to add a pyproject.toml or enable --use-pep517, and use setuptools >= 64. If the resulting installation is not behaving as expected, try using --config-settings editable_mode=compat. Please consult the setuptools documentation for more information. Discussion can be found at https://github.com/pypa/pip/issues/11457
Running setup.py develop for detectron2
Successfully installed MarkupSafe-3.0.2 absl-py-2.1.0 antlr4-python3-runtime-4.9.3 black-24.10.0 click-8.1.8 cloudpickle-3.1.0 colorama-0.4.6 contourpy-1.3.0 cyclo-0.12.1 detectron2 fonttools-4.55.3 fvcore-0.1.5.post20221221 grpcio-1.69.0 hydra-core-1.3.2 importlib-metadata-8.5.0 importlib-resources-6.5.2 iopath-0.1.9 kiwisolver-1.4.7 markdown-3.7 matplotlib-3.9.4 mpy-extensions-1.0.0 omegaconf-2.3.0 packaging-24.2 pathspec-0.12.1 platformdirs-4.3.6 portalocker-3.1.1 protobuf-5.29.3 pycocotools-2.0.8 pyparsing-3.2.1 python-dateutil-2.9.0.post0 pywin32-308 pyyaml-6.0.2 six-1.17.0 tabulate-0.9.0 tensorboard-2.18.0 tensorboard-data-server-0.7.2 termcolor-2.5.0 tomli-2.2.1 tqdm-4.67.1 werkzeug-3.1.3 yacs-0.1.8 zipp-3.21.0
```

カレントディレクトリをyolov7-maskにしてください。

C:\WINDOWS\system32\cmd.exe

```
Using cached colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Using cached portalocker-3.1.1-py3-none-any.whl (19 kB)
Using cached importlib_metadata-8.5.0-py3-none-any.whl (26 kB)
Using cached MarkupSafe-3.0.2-cp39-cp39-win_amd64.whl (15 kB)
Using cached pywin32-308-cp39-cp39-win_amd64.whl (6.6 MB)
Using cached zipp-3.21.0-py3-none-any.whl (9.6 kB)
```

```
Installing collected packages: pywin32, antlr4-python3-runtime, zipp, tomli, termcolor, tensorboard-data-server, tabulate, six, pyyaml, pyparsing, protobuf, portalocker, platformdirs, pathspec, packaging, mypy_extensions, MarkupSafe, kiwisolver, grpcio, fonttools, cyclical, contourpy, colorama, cloudpickle, absl-py, yacs, werkzeug, tqdm, python-dateutil, omegaconf, importlib-resources, importlib-metadata, click, matplotlib, markdown, iopath, hydra-core, black, tensorboard, pycocotools, fvcore, detectron2
```

```
DEPRECATION: Legacy editable install of detectron2==0.6 from file:///D:/School2024/YOLOMASK_Test/detectron2 (setup.py develop) is deprecated. pip 25.0 will enforce this behaviour change. A possible replacement is to add a pyproject.toml or enable --use-pep517, and use setuptools >= 64. If the resulting installation is not behaving as expected, try using --config-settings editable_mode=compat. Please consult the setuptools documentation for more information. Discussion can be found at https://github.com/pypa/pip/issues/11457
```

```
Running setup.py develop for detectron2
```

```
Successfully installed MarkupSafe-3.0.2 absl-py-2.1.0 antlr4-python3-runtime-4.9.3 black-24.10.0 click-8.1.8 cloudpickle-3.1.0 colorama-0.4.6 contourpy-1.3.0 cyclical-0.12.1 detectron2 fonttools-4.55.3 fvcore-0.1.5.post20221221 grpcio-1.69.0 hydra-core-1.3.2 importlib-metadata-8.5.0 importlib-resources-6.5.2 iopath-0.1.9 kiwisolver-1.4.7 markdown-3.7 matplotlib-3.9.4 mypy_extensions-1.0.0 omegaconf-2.3.0 packaging-24.2 pathspec-0.12.1 platformdirs-4.3.6 portalocker-3.1.1 protobuf-5.29.3 pycocotools-2.0.8 pyparsing-3.2.1 python-dateutil-2.9.0.post0 pywin32-308 pyyaml-6.0.2 six-1.17.0 tabulate-0.9.0 tensorboard-2.18.0 tensorboard-data-server-0.7.2 termcolor-2.5.0 tomli-2.2.1 tqdm-4.67.1 werkzeug-3.1.3 yacs-0.1.8 zipp-3.21.0
```

```
(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\detectron2>cd..
```

```
(YOLOMASK_Test) D:\School2024\YOLOMASK_Test>cd yolov7-mask
```

```
(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\yolov7-mask>
```

cd/yolov7-mask/requirements.txtを開いてください. ①から②へコードを変更してください.

①

```
1 # Usage: pip install -r requirements.txt↓
2 ↓
3 # Base -----↓
4 matplotlib>=3.2.2↓
5 numpy>=1.18.5↓
6 opencv-python>=4.1.1↓
7 Pillow>=7.1.2↓
8 PyYAML>=5.3.1↓
9 requests>=2.23.0↓
10 scipy>=1.4.1↓
11 torch>=1.7.0,!<1.12.0↓
12 torchvision>=0.8.1,!<0.13.0↓
13 tqdm>=4.41.0↓
14 protobuf<4.21.3↓
15 ↓
16 # Logging -----↓
17 tensorboard>=2.4.1↓
18 # wandb↓
19 ↓
20 # Plotting -----↓
21 pandas>=1.1.4↓
22 seaborn>=0.11.0↓
23 ↓
24 # Export -----↓
25 # coremltools>=4.1 # CoreML export↓
26 # onnx>=1.9.0 # ONNX export↓
27 # onnx-simplifier>=0.3.6 # ONNX simplifier↓
28 # scikit-learn=0.19.2 # CoreML quantization↓
29 # tensorflow>=2.4.1 # TFLite export↓
30 # tensorflowjs>=3.9.0 # TF.js export↓
31 # openvino-dev # OpenVINO export↓
32 ↓
```

これを変更

これを消す

②

```
1 # Usage: pip install -r requirements.txt↓
2 ↓
3 # Base -----↓
4 matplotlib>=3.2.2↓
5 numpy<2↓
6 opencv-python>=4.1.1↓
7 Pillow>=7.1.2↓
8 PyYAML>=5.3.1↓
9 requests>=2.23.0↓
10 scipy>=1.4.1↓
11 tqdm>=4.41.0↓
12 protobuf<4.21.3↓
13 ↓
14 # Logging -----↓
15 tensorboard>=2.4.1↓
16 # wandb↓
17 ↓
18 # Plotting -----↓
19 pandas>=1.1.4↓
20 seaborn>=0.11.0↓
21 ↓
22 # Export -----↓
23 # coremltools>=4.1 # CoreML export↓
24 # onnx>=1.9.0 # ONNX export↓
25 # onnx-simplifier>=0.3.6 # ONNX simplifier↓
26 # scikit-learn=0.19.2 # CoreML quantization↓
27 # tensorflow>=2.4.1 # TFLite export↓
28 # tensorflowjs>=3.9.0 # TF.js export↓
29 # openvino-dev # OpenVINO export↓
30 ↓
31 # Extras -----↓
32 ipython # interactive notebook↓
```



変更したら、`pip install -r requirements.txt`

をして、必要なものをインストールする。

```
Using cached portalocker-3.1.1-py3-none-any.whl (19 kB)
Using cached importlib_metadata-8.5.0-py3-none-any.whl (26 kB)
Using cached MarkupSafe-3.0.2-cp39-cp39-win_amd64.whl (15 kB)
Using cached pywin32-308-cp39-cp39-win_amd64.whl (6.6 MB)
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(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\detectron2>cd..
(YOLOMASK_Test) D:\School2024\YOLOMASK_Test>cd yolov7-mask
(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\yolov7-mask>pip install -r requirements_
```

.txt

をつけてください。

yolov7-maskのフォルダの中に「1.jpg」, 「segment.py」を入れてください.

「python segment.py --source 1.jpg」と打ち込んで, 実行してください.

```
>>> import detectron2
>>> import torch
>>> torch.cuda.is_available()
True
>>> exit()

(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\yolov7-mask>python segment.py --source 1.jpg
Namespace(weights='yolov7-mask.pt', source='1.jpg', img_size=640, conf_thres=0.25, iou_thres=0.45,
e=False, project='runs/detect', name='exp', hyp='data/hyp.scratch.mask.yaml', seed=1, thickness=1,
=False, showfps=False)
C:\Users\bird04\anaconda3\envs\YOLOMASK_Test\lib\site-packages\torch\functional.py:568: UserWarning
an upcoming release, it will be required to pass the indexing argument. (Triggered internally at
k\pytorch\pytorch\builder\windows\pytorch\aten\src\ATen\native\TensorShape.cpp:2228.)
    return _VF.meshgrid(tensors, **kwargs) # type: ignore[attr-defined]
Output saved:  runs\detect\exp\1.jpg

(YOLOMASK_Test) D:\School2024\YOLOMASK_Test\yolov7-mask>python segment.py --source 1.jpg
```

実行後, 「runs」 フォルダの奥に, 画像ができていれば成功です.



こんな画像. . .

ここまで、できたならば、yolo-maskの仮想環境が完成しました.

yolov7-maskのフォルダの中に「Segment-human.py」を保存してください.