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fcn 2.0.0

Fully Convolutional Networks

Latest Version: 6.1.7

fcn - Fully Convolutional Networks

 $..\ image:: https://badge.fury.io/gh/wkentaro\%2Ffcn.svg$

:target: https://badge.fury.io/gh/wkentaro%2Ffcn

.. image:: https://travis-ci.org/wkentaro/fcn.svg?branch=master

:target: https://travis-ci.org/wkentaro/fcn

This is Chainer_implementation of fcn.berkeleyvision.org_.

- .._fcn.berkeleyvision.org: https://github.com/shelhamer/fcn.berkeleyvision.org.git
- .. _Chainer: https://github.com/pfnet/chainer.git

Features

- Provide FCN8s model for Chainer. [v1.0.0_]
- Copy caffemodel to chainermodel. [v1.0.0_]
- Forwarding with Chainer for pascal dataset. [v1.0.0_]
- Training with Chainer for pascal dataset. [v2.0.0_]
- Training for APC2015 dataset. [**not yet**]
- .._v1.0.0: https://github.com/wkentaro/fcn/releases/tag/v1.0.0
- $.._v2.0.0: https://github.com/wkentaro/fcn/releases/tag/v2.0.0$

License

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Download fcn-2.0.0.tar.gz

```
For Beginners
Installation
+++++++++++
.. code-block:: bash
pip install fcn
Forwarding
++++++++
Forwarding is done as below, and computation graph is `here <a href="https://github.com="" fcn="" blob="" master="" _images="" fcn8s_forward.jpg="">`_.</a>
.. code-block:: bash
# Download sample image
wget https://farm2.staticflickr.com/1522/26471792680_a485afb024_z_d.jpg -O sample.jpg
# forwaring of the networks
fcn_forward.py --img-files sample.jpg --gpu -1 # cpu mode
fcn_forward.py --img-files sample.jpg # gpu mode
.. image:: https://raw.githubusercontent.com/wkentaro/fcn/master/_images/26471792680.jpg
Original Image: https://www.flickr.com/photos/faceme/26471792680/
For Developers
Installation
+++++++++++
.. code-block:: bash
git clone https://github.com/wkentaro/fcn.git
```

https://pypi.python.org/pypi/fcn/2.0.0

```
2017/10/1
cd fcn
```

python setup.py install

You need to download pascal VOC2012 dataset from `here `_, and install it as below construction::

- fcn data pascal VOC2012 -- JPEGImages
- SegmentationClass

- ...

Fowarding

+++++++

Forwarding with trained model in caffe is done as below:

- .. code-block:: bash
- # This downloads caffemodel and convert it to chainermodel ./scripts/caffe_to_chainermodel.py
- # forwarding of the networks ./scripts/fcn_forward.py --img-files data/pascal/VOC2012/JPEGImages/2007_000129.jpg
- .. image:: https://raw.githubusercontent.com/wkentaro/fcn/master/_images/2007_000129.jpg

Original Image: http://host.robots.ox.ac.uk/pascal/VOC/voc2012/

Training

+++++++

.. code-block:: bash

./scripts/fcn_train.py

Currently we support only training FCN32s.

The learning curve looks like below:

.. image:: https://raw.githubusercontent.com/wkentaro/fcn/master/_images/fcn32s_learning_curve.png

Forwarding with ``fcn32s_60000.chainermodel`` ends with below result:

https://pypi.python.org/pypi/fcn/2.0.0

.. image:: https://raw.githubusercontent.com/wkentaro/fcn/master/_images/fcn32s_2007_000129.jpg

| File | Type | Py Version | Uploaded on | Size |
|------------------------|--------|------------|-------------|------|
| fcn-2.0.0.tar.gz (md5) | Source | | 2016-05-14 | 1MB |

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Home Page: http://github.com/wkentaro/fcn

Keywords: machine-learning

License: MIT Categories

Development Status :: 5 - Production/Stable

Intended Audience :: Developers

License :: OSI Approved :: MIT License

Operating System :: POSIX
Topic :: Internet :: WWW/HTTP

Package Index Owner: wkentaro DOAP record: fcn-2.0.0.xml