

Python 3.6.2 |Continuum Analytics, Inc.| (default, Jul 20 2017, 13:14:59)

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IPython 6.1.0 -- An enhanced Interactive Python.

```
In [1]: runfile('/Users/chris/Desktop/Chris/大三下春夏学期/4 综合
课程设计/IST/main_tf.py', wdir='/Users/chris/Desktop/Chris/大三下
春夏学期/4 综合课程设计/IST')
```

```
/opt/anaconda3/envs/tensorflow/lib/python3.6/site-packages/
tensorflow/python/framework/dtypes.py:455: FutureWarning:
Passing (type, 1) or '1type' as a synonym of type is
deprecated; in a future version of numpy, it will be understood
as (type, (1,)) / '(1,)type'.
```

```
_np_qint8 = np.dtype(["qint8", np.int8, 1])
/opt/anaconda3/envs/tensorflow/lib/python3.6/site-packages/
tensorflow/python/framework/dtypes.py:456: FutureWarning:
Passing (type, 1) or '1type' as a synonym of type is
deprecated; in a future version of numpy, it will be understood
as (type, (1,)) / '(1,)type'.
```

```
_np_quint8 = np.dtype(["quint8", np.uint8, 1])
/opt/anaconda3/envs/tensorflow/lib/python3.6/site-packages/
tensorflow/python/framework/dtypes.py:457: FutureWarning:
Passing (type, 1) or '1type' as a synonym of type is
deprecated; in a future version of numpy, it will be understood
as (type, (1,)) / '(1,)type'.
```

```
_np_qint16 = np.dtype(["qint16", np.int16, 1])
/opt/anaconda3/envs/tensorflow/lib/python3.6/site-packages/
tensorflow/python/framework/dtypes.py:458: FutureWarning:
Passing (type, 1) or '1type' as a synonym of type is
deprecated; in a future version of numpy, it will be understood
as (type, (1,)) / '(1,)type'.
```

```
_np_quint16 = np.dtype(["quint16", np.uint16, 1])
/opt/anaconda3/envs/tensorflow/lib/python3.6/site-packages/
tensorflow/python/framework/dtypes.py:459: FutureWarning:
Passing (type, 1) or '1type' as a synonym of type is
deprecated; in a future version of numpy, it will be understood
as (type, (1,)) / '(1,)type'.
```

```
_np_qint32 = np.dtype(["qint32", np.int32, 1])
/opt/anaconda3/envs/tensorflow/lib/python3.6/site-packages/
tensorflow/python/framework/dtypes.py:462: FutureWarning:
Passing (type, 1) or '1type' as a synonym of type is
deprecated; in a future version of numpy, it will be understood
as (type, (1,)) / '(1,)type'.
```

```
_np_resource = np.dtype(["resource", np.ubyte, 1])
```

2021-03-10 22:46:22

```
/Users/chris/Desktop/Chris/大三下春夏学期/4 综合课程设计/IST/
main_tf.py:156: DeprecationWarning:      `imread` is deprecated!
      `imread` is deprecated in SciPy 1.0.0, and will be removed
```

```

in 1.2.0.
    Use ``imageio.imread`` instead.
    image = scipy.misc.imread(path)
/Users/chris/Desktop/Chris/大三下春夏学期/4 综合课程设计/IST/
main_tf.py:157: DeprecationWarning:     `imresize` is
deprecated!
    `imresize` is deprecated in SciPy 1.0.0, and will be
removed in 1.3.0.
    Use Pillow instead:
``numpy.array(Image.fromarray(arr).resize()))``.
    image = scipy.misc.imresize(image, (IMAGE_H, IMAGE_W))
2021-03-10 22:46:51
Iteration 0
Cost: 217289540000.0
/Users/chris/Desktop/Chris/大三下春夏学期/4 综合课程设计/IST/
main_tf.py:167: DeprecationWarning:     `imsave` is deprecated!
    `imsave` is deprecated in SciPy 1.0.0, and will be removed
in 1.2.0.
    Use ``imageio.imwrite`` instead.
    scipy.misc.imsave(path, image)
2021-03-10 22:55:04
Iteration 50
Cost: 6454563000.0
2021-03-10 23:03:23
Iteration 100
Cost: 2283735800.0
2021-03-10 23:11:44
Iteration 150
Cost: 1363479200.0
2021-03-10 23:20:08
Iteration 200
Cost: 938378430.0
2021-03-10 23:28:33
Iteration 250
Cost: 701003800.0
2021-03-10 23:36:58
Iteration 300
Cost: 553069600.0
2021-03-10 23:45:22
Iteration 350
Cost: 452859620.0
2021-03-10 23:53:48
Iteration 400
Cost: 380163520.0
2021-03-11 00:02:09
Iteration 450
Cost: 325565470.0
2021-03-11 00:10:30
Iteration 500

```

Cost: 282847740.0
2021-03-11 00:18:49
Iteration 550
Cost: 248620940.0
2021-03-11 00:27:10
Iteration 600
Cost: 220836350.0
2021-03-11 00:35:31
Iteration 650
Cost: 203556590.0
2021-03-11 00:43:50
Iteration 700
Cost: 178698500.0
2021-03-11 00:52:09
Iteration 750
Cost: 163467760.0
2021-03-11 01:00:28
Iteration 800
Cost: 148251100.0
2021-03-11 01:08:46
Iteration 850
Cost: 136579980.0
2021-03-11 01:17:06
Iteration 900
Cost: 144839280.0
2021-03-11 01:25:25
Iteration 950
Cost: 117093704.0
2021-03-11 01:33:44
Iteration 1000
Cost: 107619270.0
2021-03-11 01:42:02
Iteration 1050
Cost: 101872810.0
2021-03-11 01:50:20
Iteration 1100
Cost: 93300280.0
2021-03-11 01:58:39
Iteration 1150
Cost: 90799490.0
2021-03-11 02:06:57
Iteration 1200
Cost: 82077730.0
2021-03-11 02:15:16
Iteration 1250
Cost: 78134344.0
2021-03-11 02:23:35
Iteration 1300
Cost: 75295690.0
2021-03-11 02:31:54

```
Iteration 1350
Cost: 69890376.0
2021-03-11 02:40:13
Iteration 1400
Cost: 65337544.0
2021-03-11 02:48:31
Iteration 1450
Cost: 65396496.0
2021-03-11 02:56:51
Iteration 1500
Cost: 68632310.0
2021-03-11 03:05:10
Iteration 1550
Cost: 63500736.0
2021-03-11 03:13:29
Iteration 1600
Cost: 262446830.0
2021-03-11 03:21:49
Iteration 1650
Cost: 148149440.0
2021-03-11 03:30:08
Iteration 1700
Cost: 72832530.0
2021-03-11 03:38:28
Iteration 1750
Cost: 60664190.0
2021-03-11 03:46:47
Iteration 1800
Cost: 54141744.0
2021-03-11 03:55:06
Iteration 1850
Cost: 55494188.0
2021-03-11 04:03:25
Iteration 1900
Cost: 46826504.0
2021-03-11 04:11:45
Iteration 1950
Cost: 43728830.0
```

In [2]: