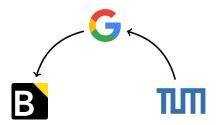
tf.talk()

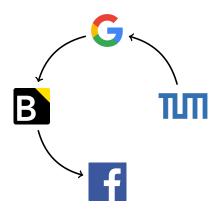
A Tiny Tour of TensorFlow

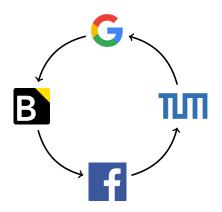


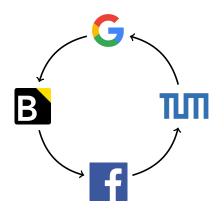








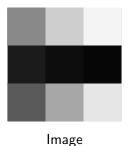




A Tour of TensorFlow github.com/peter-can-write/tensorflow-paper







0.4	0.9	0.1
0.7	0.2	0.6
0.8	0.3	0.5

Image

0.4	0.9	0.1
0.7	0.2	0.6
0.8	0.3	0.5

 5.7
 2.4

 3.1
 0.9

Image

Kernel

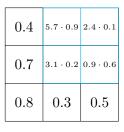
$5.7 \cdot 0.4$	$2.4 \cdot 0.9$	0.1
$3.1 \cdot 0.7$	$0.9 \cdot 0.2$	0.6
0.8	0.3	0.5

Image

$5.7 \cdot 0.4$	$2.4 \cdot 0.9$	0.1
$3.1 \cdot 0.7$	0.9 · 0.2	0.6
0.8	0.3	0.5

6.79

Image



6.79 6.53

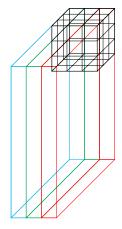
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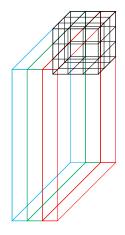


Image

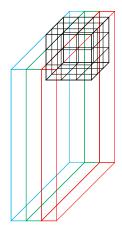


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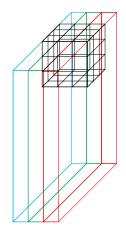




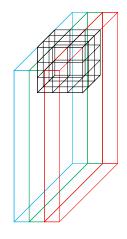




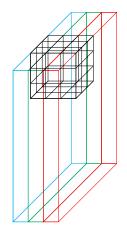




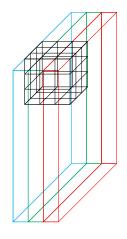




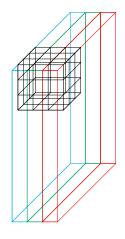




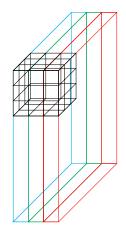




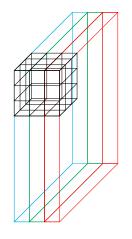


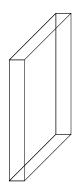


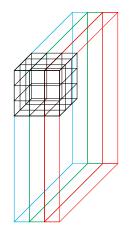


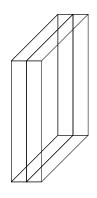


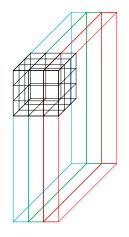


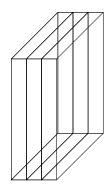


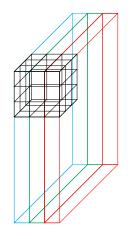


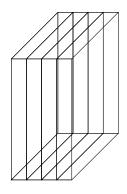












66	2
6	32



50	17
66	2



5	19	69
66	2	79
6	32	128

5	19	69
66	2	79
6	32	128

5	19	69
66	2	79
6	32	128

66

5	19	69
66	2	79
6	32	128

5	19	69
66	2	79
6	32	128

66	79
66	

5	19	69
66	2	79
6	32	128

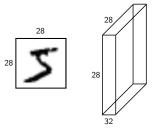
66	79
66	128

Convolutional Neural Networks

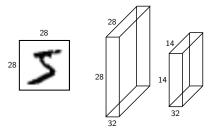
INPUT
$$\rightarrow$$
 [CONV \rightarrow POOL] $\{2\}$ \rightarrow FC \rightarrow OUTPUT



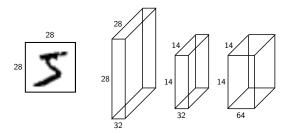
INPUT \rightarrow [CONV \rightarrow POOL] $\{2\}$ \rightarrow FC \rightarrow OUTPUT



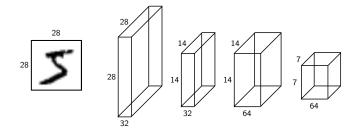
INPUT ->
$$[CONV -> POOL]{2} -> FC -> OUTPUT$$



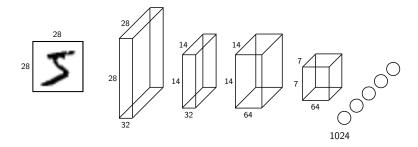
INPUT -> [CONV -> POOL]{2} -> FC -> OUTPUT



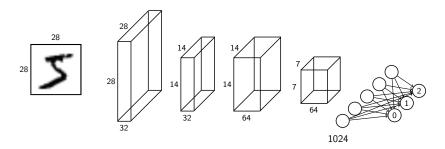
INPUT
$$\rightarrow$$
 [CONV \rightarrow POOL] $\{2\}$ \rightarrow FC \rightarrow OUTPUT



INPUT -> [CONV ->
$$POOL$$
]{2} -> FC -> OUTPUT



INPUT
$$\rightarrow$$
 [CONV \rightarrow POOL] $\{2\}$ \rightarrow FC \rightarrow OUTPUT



INPUT
$$\rightarrow$$
 [CONV \rightarrow POOL] $\{2\}$ \rightarrow FC \rightarrow OUTPUT

How do I continue?

Resources

- Deep Learning by Google @ Udacity
- http://colah.github.io
- http://cs231n.github.io
- http://www.deeplearningbook.org
- https://www.tensorflow.org

Stay in Touch!

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- github.com/goldsborough

github.com/peter-can-talk/pydata-london

Q & A