

# tf.talk()

## A Tiny Tour of TensorFlow

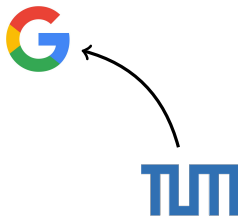


# Background

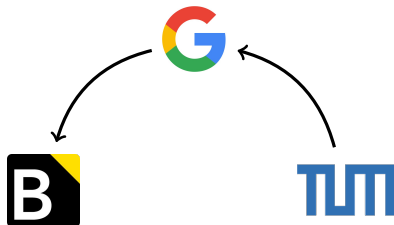
# Background



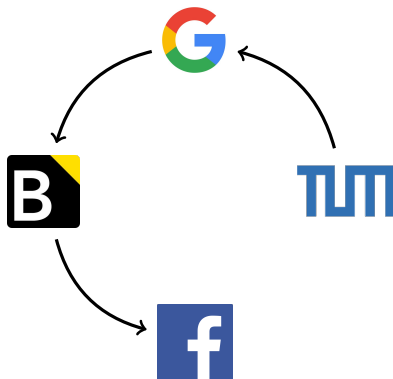
# Background



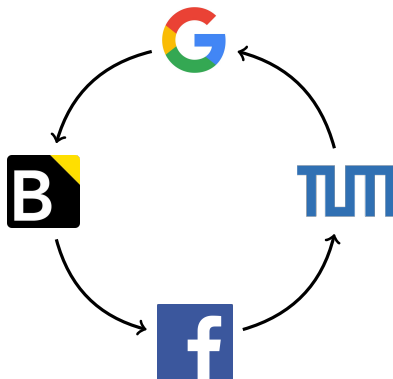
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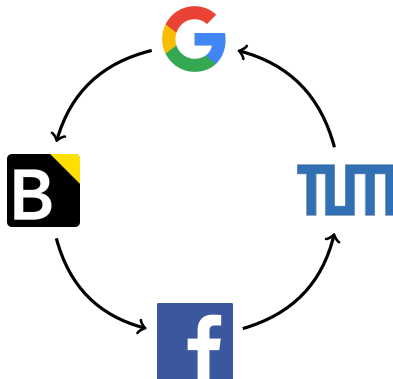
# Background



# Background



# Background



*A Tour of TensorFlow*

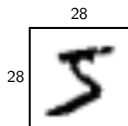
`github.com/peter-can-write/tensorflow-paper`



# LeNet5

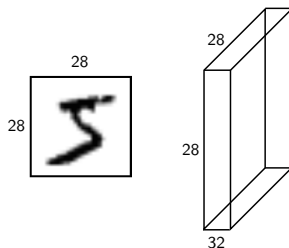
INPUT  $\rightarrow$  [CONV  $\rightarrow$  POOL] $\{2\}$   $\rightarrow$  FC  $\rightarrow$  OUTPUT

# LeNet5



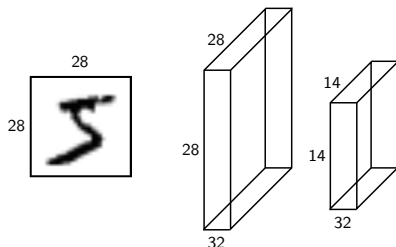
INPUT -> [CONV -> POOL]{2} -> FC -> OUTPUT

# LeNet5



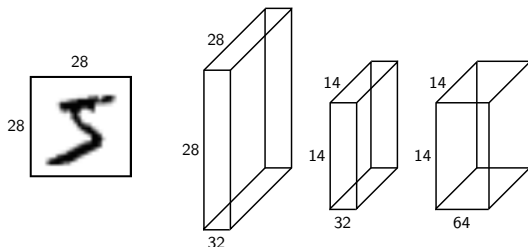
INPUT  $\rightarrow$  [CONV  $\rightarrow$  POOL] {2}  $\rightarrow$  FC  $\rightarrow$  OUTPUT

# LeNet5



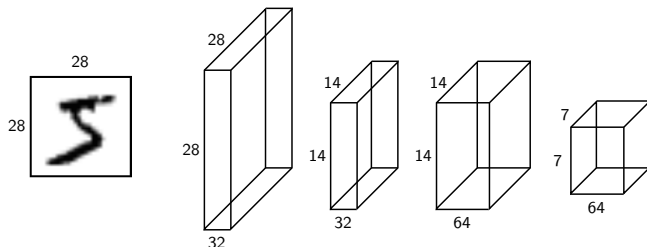
INPUT  $\rightarrow$  [CONV  $\rightarrow$  POOL] {2}  $\rightarrow$  FC  $\rightarrow$  OUTPUT

# LeNet5



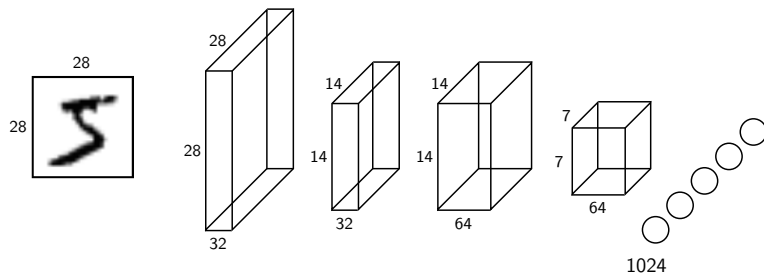
INPUT  $\rightarrow$  [CONV  $\rightarrow$  POOL] $\{2\}$   $\rightarrow$  FC  $\rightarrow$  OUTPUT

# LeNet5



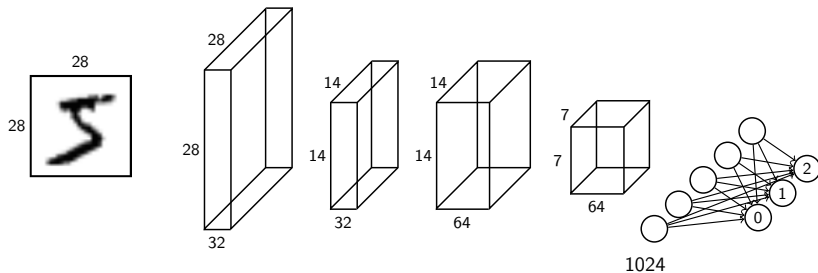
INPUT  $\rightarrow$  [CONV  $\rightarrow$  POOL] {2}  $\rightarrow$  FC  $\rightarrow$  OUTPUT

# LeNet5



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

# LeNet5



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!

- ▶ `peter@goldsborough.me`
- ▶ `linkedin.com/in/petergoldsborough`
- ▶ `github.com/goldsborough`

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

# Q & A