

Last Words



Jerry Kurata

CONSULTANT

@jerrykur

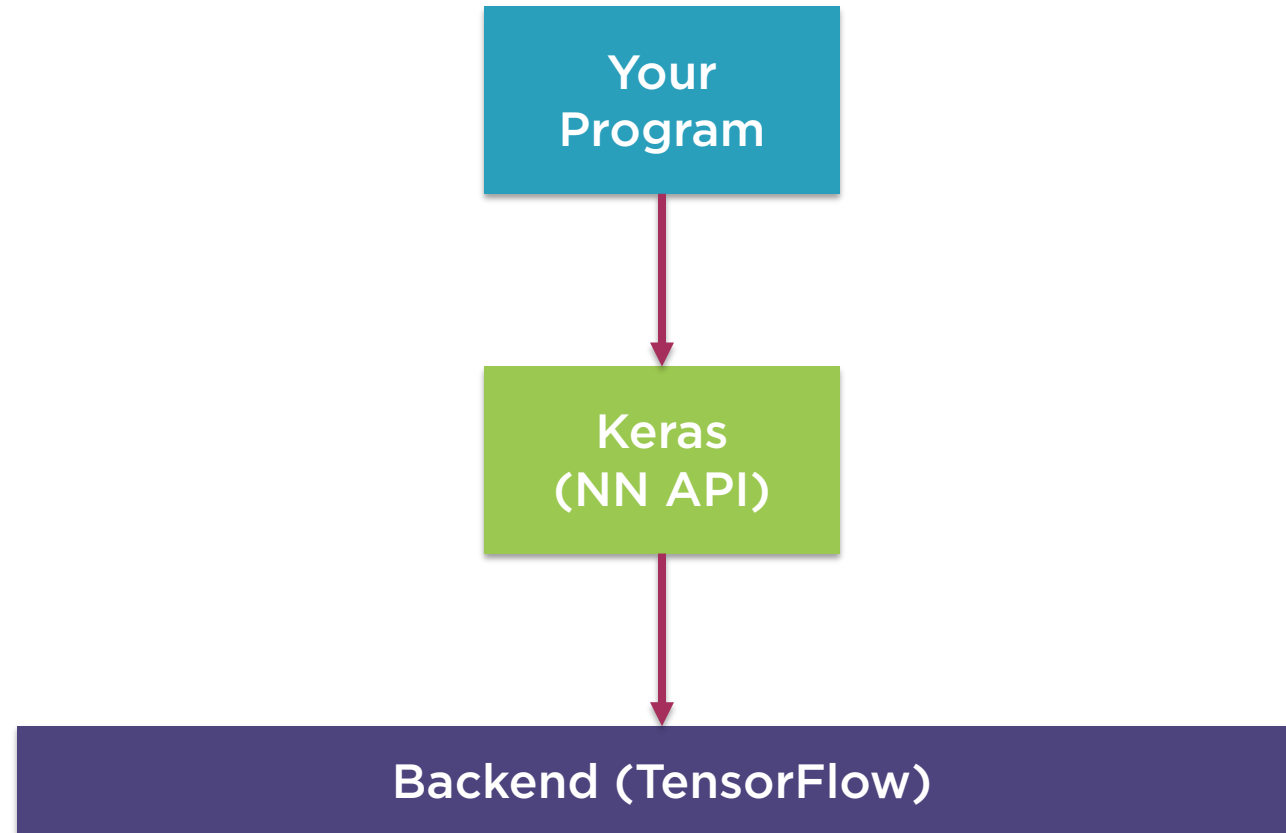


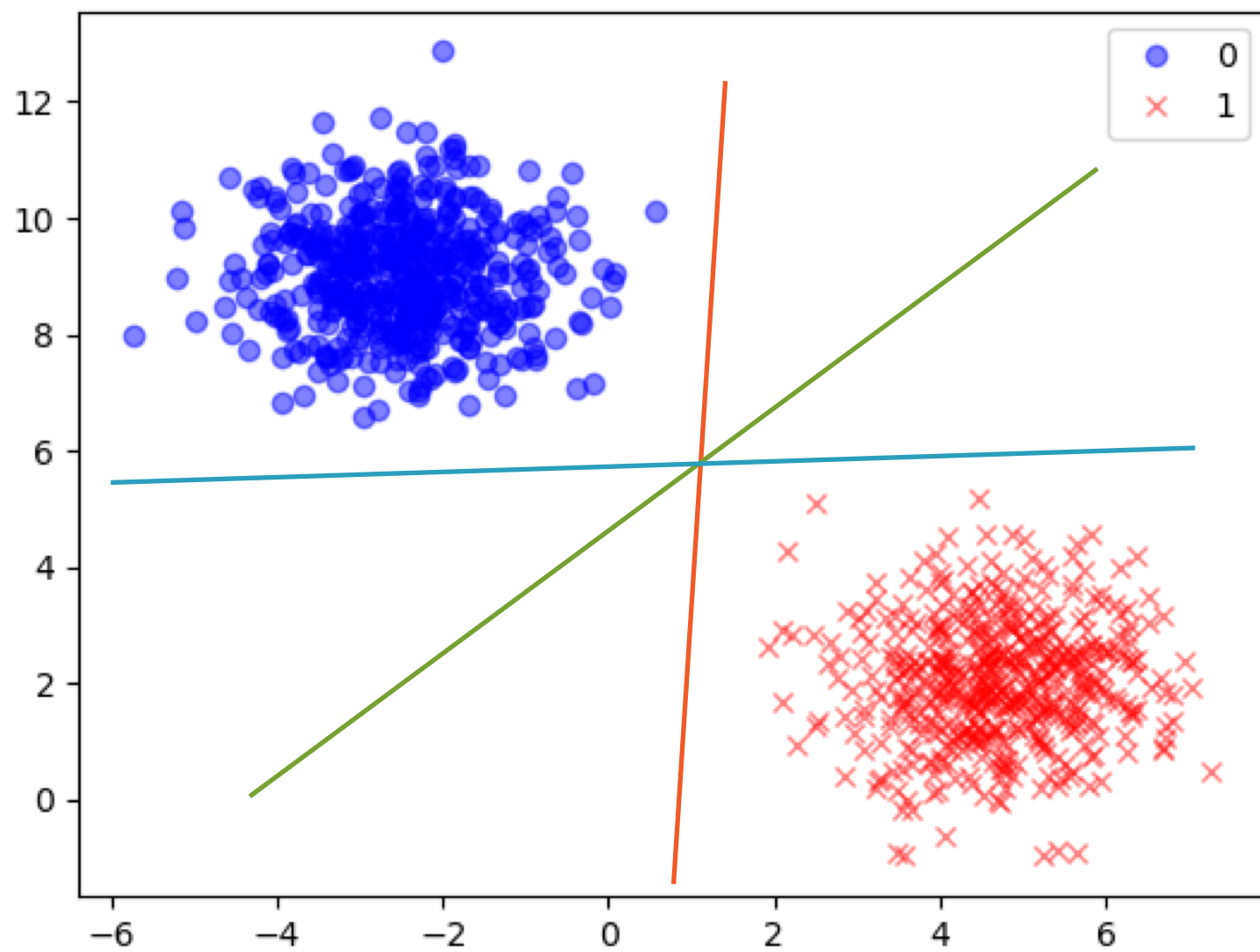
Keras

Keras is a high-level neural network API, written in Python and capable of running on top of TensorFlow, CNTK, or Theano.

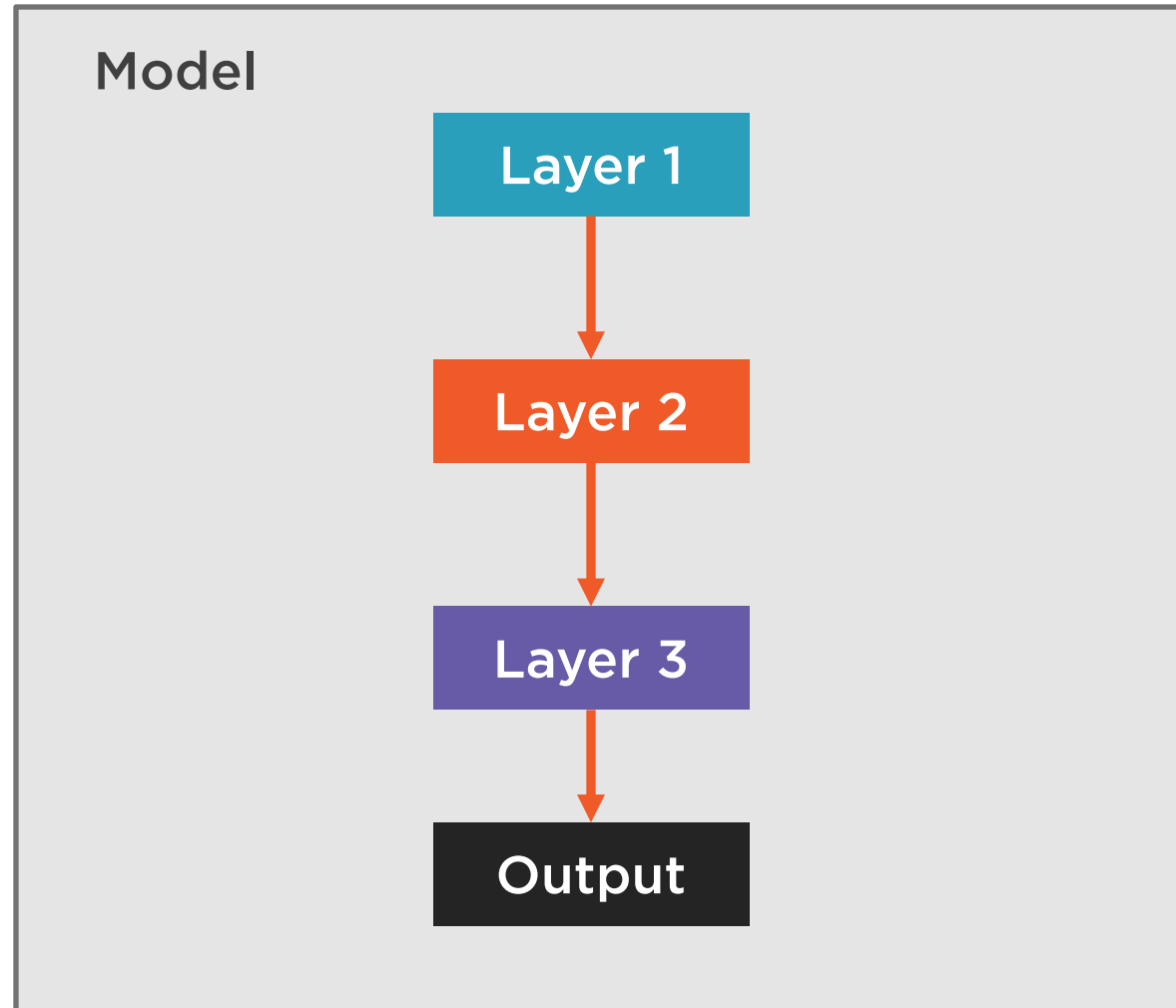


Keras Environment



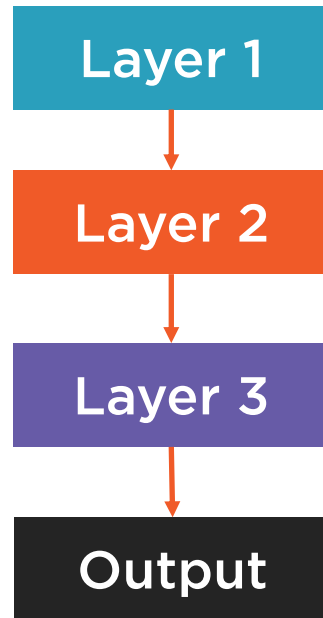


Keras Model and Layers

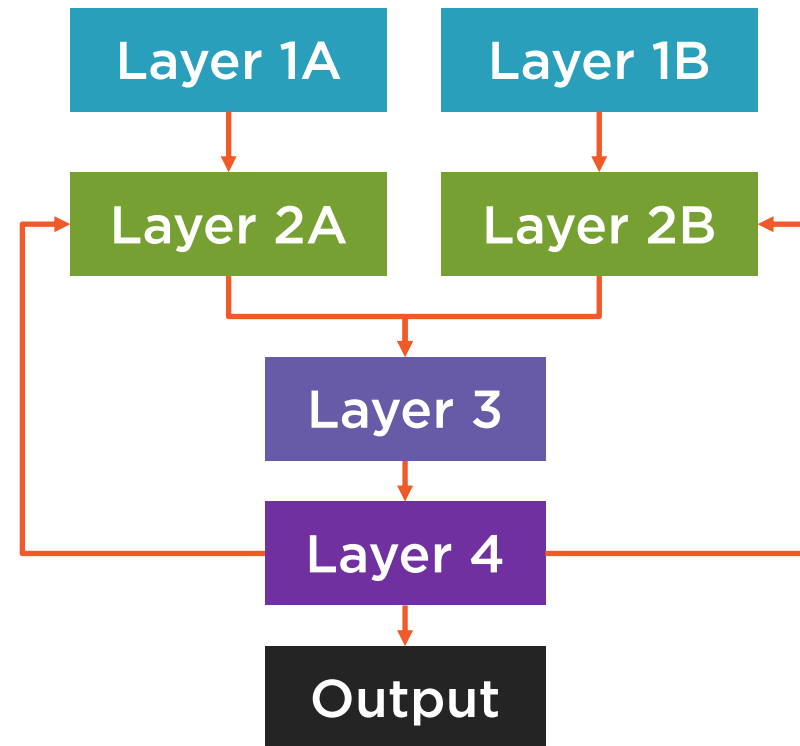


Keras Models

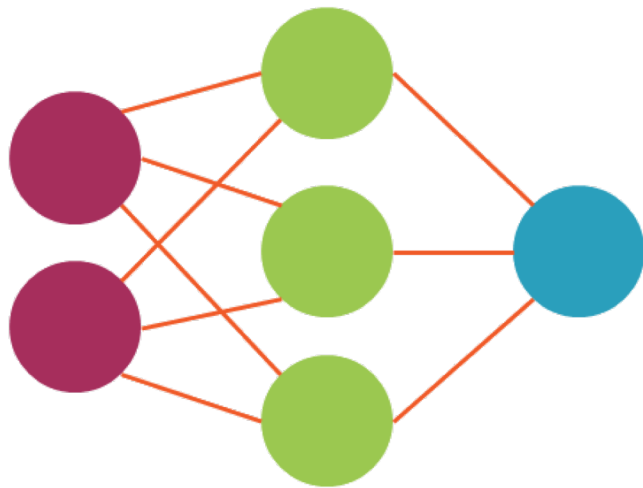
Sequential



Functional API

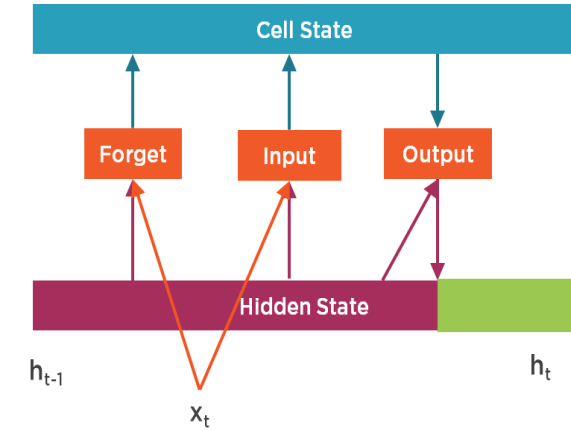


Layers



0	1	1	1	1	1
0	0	0	1	1	0
0	0	1	1	1	1
1	0	0	1	1	1
1	1	0	0	1	1
0	0	1	1	0	0

2	3	4	4
1	2	2	3
3	2	3	3
2	2	3	3



Layers and Functions

Pre-processing

**Specialty
Layers**

**Custom
Layers**



Learning References

Keras

Keras - <https://keras.io/>

Keras Blog (Francois Chollet) - <https://blog.keras.io/>

Deep Learning Book

Deep Learning - Goodfellow, Bengio, and Courville -
<http://www.deeplearningbook.org/>

Courses

Stanford CS231 - <http://cs231n.github.io/convolutional-networks/>



Learning References (cont.)

RNN/LSTM

Chris Olah - <http://colah.github.io/posts/2015-08-Understanding-LSTMs/>

RNN Applications

Andrej Karpathy - <http://karpathy.github.io/2015/05/21/rnn-effectiveness/>



