



**A conversation with  
Andrew Ng**

**Functional APIs**

**Using the Functional APIs**

**Creating a Multi-Output  
Architecture**

**Siamese Network**



**Video:** Siamese network: a  
Multiple-Input model  
2 min



**Reading:** References about  
the Siamese network  
3 min



**Video:** Coding a Multi-Input  
Siamese network  
4 min



**Reading:** Reference "The  
distance between two  
vectors"  
3 min



**Video:** Siamese network  
code walkthrough  
8 min



**Lab:** Siamese network  
1h

**Quiz: Functional API**



**Quiz:** Functional API  
8 questions

**Assignment: Functional API**



**Programming Assignment:**  
Multiple Output Models  
using Keras Functional API  
3h



# References about the Siamese network

- [Learning a Similarity Metric Discriminatively, with Application to Face Verification](#) (Chopra, Hadsell, & LeCun, 2005)

- [Similarity Learning with \(or without\) Convolutional Neural Network](#) (Chatterjee & Luo, n.d.)

✓ Complete

Go to next item

