Computer Vision – TP15 Deep Learning Resources and Examples

Miguel Tavares Coimbra



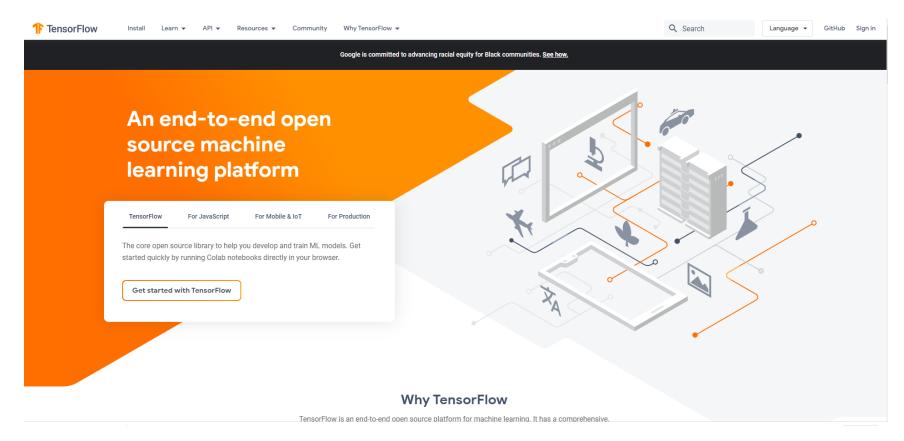
Outline

- Deep Learning Resources
- Examples

Topic: Deep Learning Resources

- Deep Learning Resources
- Examples

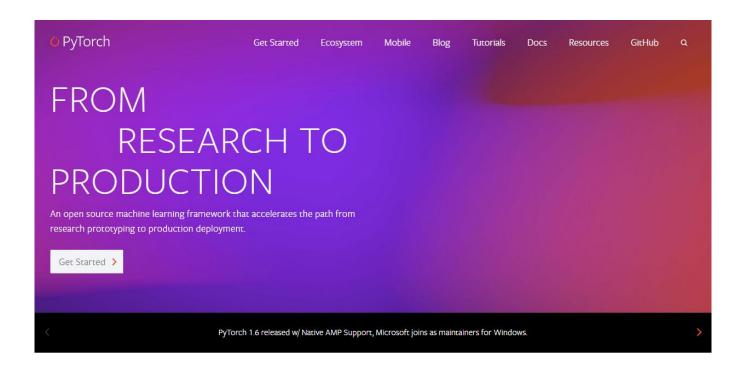
TensorFlow



https://www.tensorflow.org/



PyTorch



KEY FEATURES & CAPABILITIES

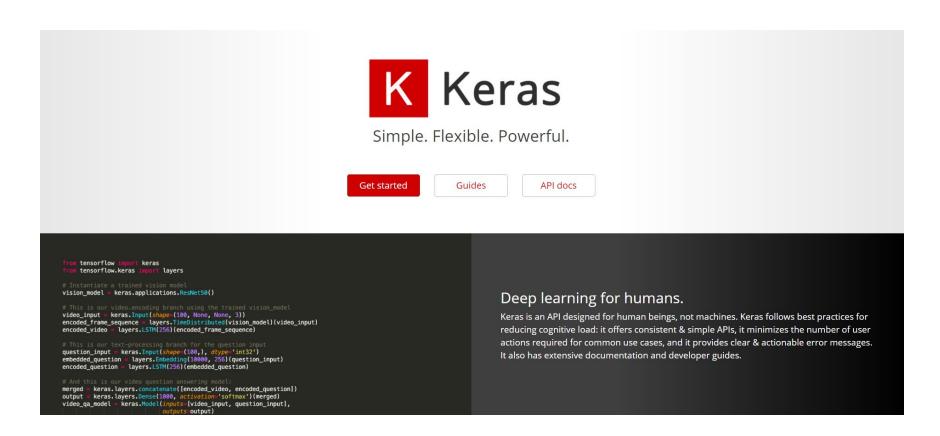
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Keras

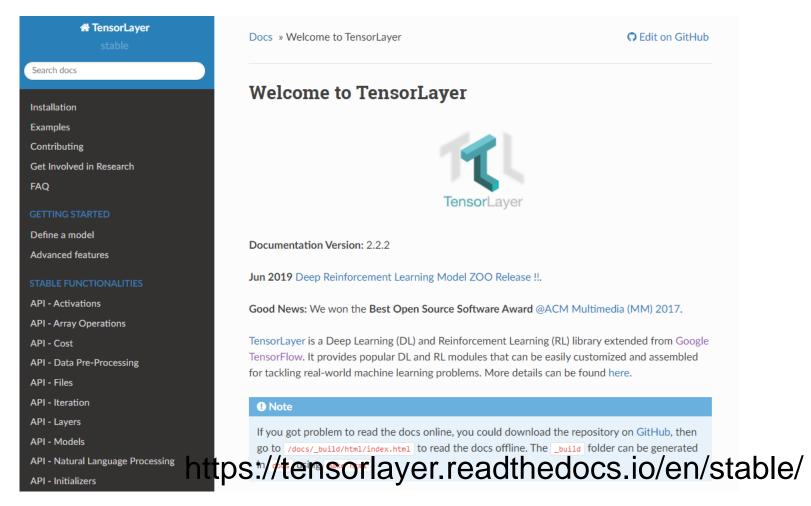


https://keras.io/





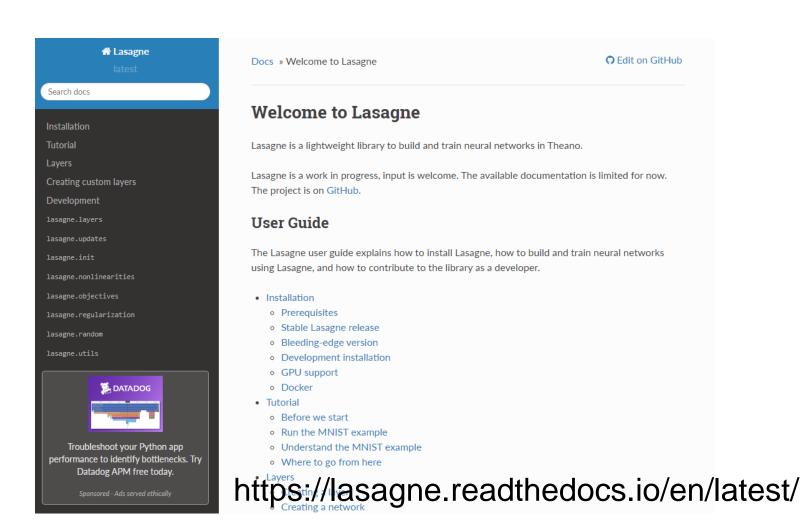
TensorLayer







Lasagne







Topic: Examples

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Invited Speaker

Slides of the invited speaker

Resources

Theory

I. Goodfellow, Y. Bengio, and A. Courville. Deep learning. Vol. 1.
 Cambridge: MIT press, 2016. (https://www.deeplearningbook.org/)

Survey papers

- "Deep Learning for Visual Understanding," in IEEE Signal Processing Magazine, vol. 34, no. 6, Nov. 2017.
- A. Lucas, M. Iliadis, R. Molina and A. K. Katsaggelos, "Using Deep Neural Networks for Inverse Problems in Imaging: Beyond Analytical Methods," in IEEE Signal Processing Magazine, vol. 35, no. 1, pp. 20-36, Jan. 2018.

Tutorial

 Oxford Visual Geometry Group: VGG Convolutional Neural Networks Practical (http://www.robots.ox.ac.uk/~vgg/practicals/cnn/)

