Tensorflow

MACHINE LEARNING LIBRARY

۳۰ آذرماه ۱۳۹۶

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Tensorflow characteristics

- Open source library

- Dataflow programming

- Visualizing process

- Machine learning tools

https://en.wikipedia.org/wiki/TensorFlow

TensorFlow

Developer(s)	Google Brain Team[1]
Initial release	November 9, 2015; 2 years ago
Stable release	1.4.0[2] / November 2, 2017; 25 days ago
Repository	github.com/tensorflow /tensorflow
Written in	Python, C++, CUDA
Platform	Linux, macOS, Windows, Android
Type	Machine learning library
License	Apache 2.0 open source license
Website	www.tensorflow.org

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Why tensorflow?

- Paralleling
  - Distribution (CPU- GPU)
  - Velocity

- API: Python_ C++
  - Fast compile

- Application
  - Identification image, voice, speech
  - Text mining, NLP
  - Time Series
  - Video detection

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Why tensorflow?

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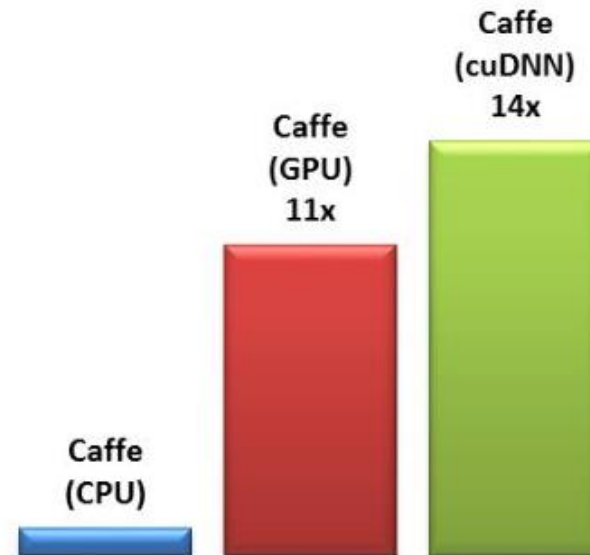
Deeplearning4j
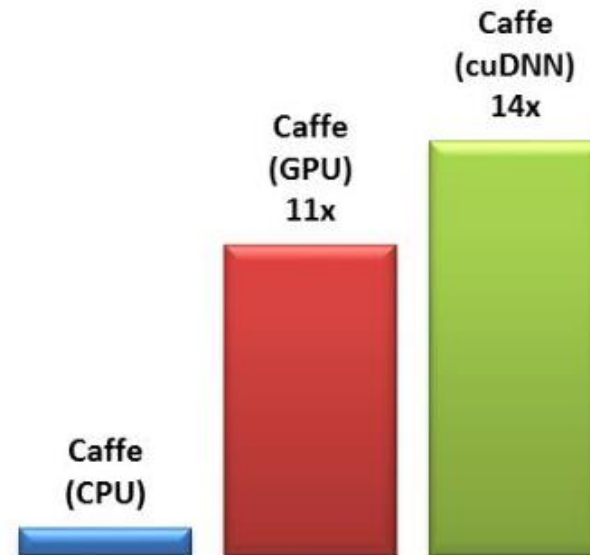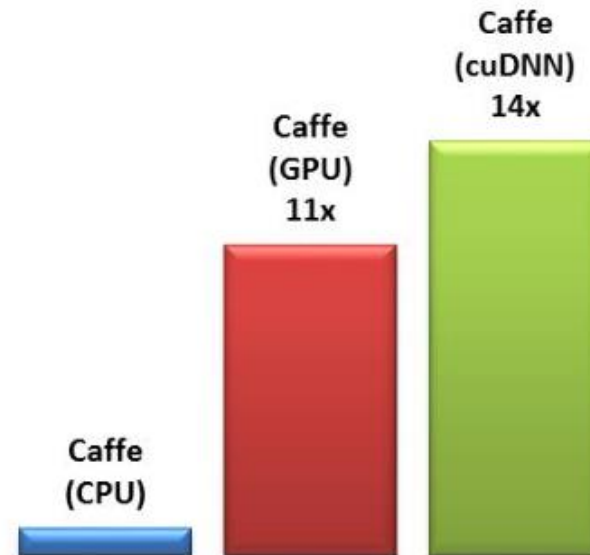
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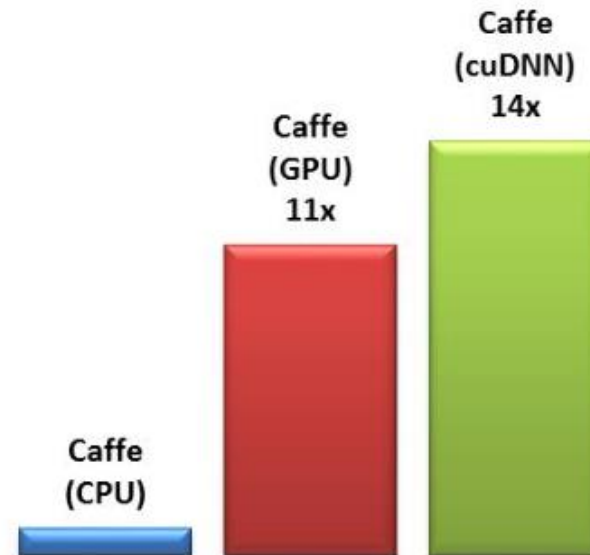
Install

- OS
  - Windows
  - Linux
  - Mac

- Python/Anaconda

- CPU/GPU
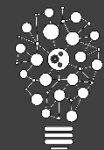
Install

https://www.anaconda.com/download/#windows
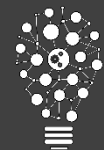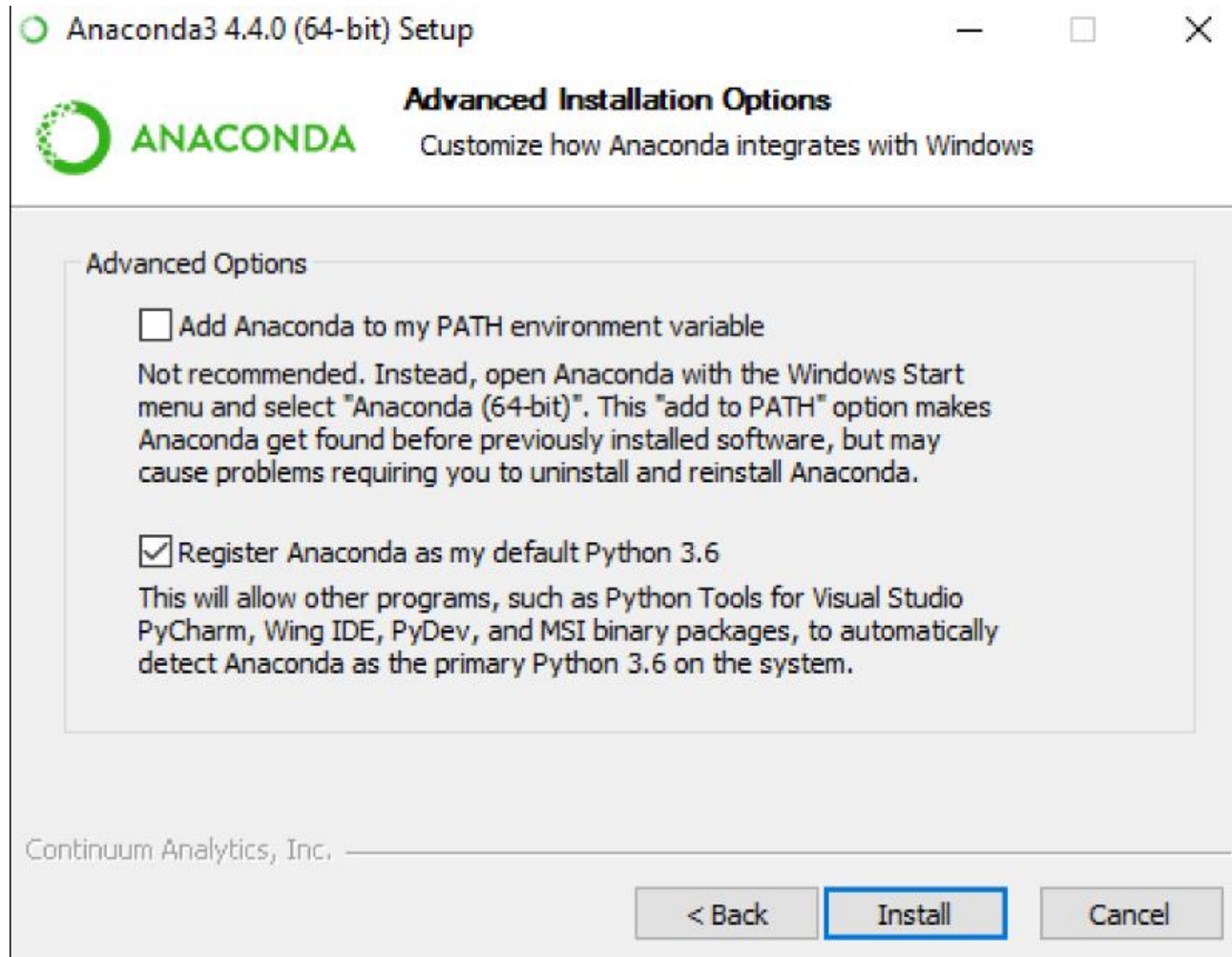
Install Anaconda

docs.anaconda.com/anaconda/install/windows
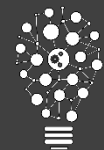
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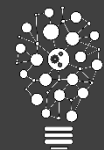
Basic Python library

- Numpy

- Pandas

- Matplotlib

- Scikit learn