

Framework	Apache Singa	Apache Spark MLlib	Caffe	Theano	Torch	TensorFlow	Microsoft Cognitive Toolkit	Veles	MXnet	Chainer	PaddlePaddle	Deeplearning4J
Internet	https://singa.incubator.apache.org	https://spark.apache.org/mlib	http://caffe.berkeleyvision.org	http://deeplearning.net/software/theano	http://torch.ch	www.tensorflow.org	www.microsoft.com/en-us/research/product/cognitive-toolkit	https://velesnet.ml	http://mxnet.io	http://chainer.org	www.paddlepaddle.org/	https://deeplearning4j.org/
GitHub Repository (https://github.com/)	apache/incubator-singa	apache/spark	BVLC/caffe	Theano/Theano	torch/torch7	tensorflow/tensorflow	microsoft/CNTK	samsung/veles	dmlc/mxnet	pfnet/chainer	PaddlePaddle/Paddle	deeplearning4j/deeplearning4j

Programmierschnittstellen

C++	●	○	●	○	●	●	●	●	●	○	●	○
Java	●	●	○	○	○	●	○	○	○	○	○	●
Python	●	●	●	●	○	●	●	●	●	●	●	●
CLI ¹⁾	○	○	●	○	○	○ ¹¹⁾	●	○	○	○	○	○ ¹⁴⁾
Sonstige	–	Scala, R	C, Matlab	–	C, Lua, LuaJIT	C, Go	BrainScript, C#, .NET ¹²⁾	–	Julia, R, Scala, Matlab, Javascript	–	–	Clojure, Scala

Plattformen

Linux	●	●	●	●	●	●	●	●	●	●	●	●
Windows	●	●	●	●	●	●	●	○	●	○	○	●
Mac OS X	●	●	● ³⁾	●	● ⁸⁾	●	○ ¹³⁾	○	●	○	○	●
Sonstige	AWS, Docker	Amazon EC2, Mesos	AWS ⁴⁾	AWS ⁶⁾ , Docker	Android, iOS ⁹⁾	Docker, Google Cloud Platform	Azure, Docker	–	AWS, Azure, GCE, Yarn, Raspberry PI, Docker	Docker	Docker	Android

CPU-Schnittstelle

CUDA	●	●	●	●	●	●	●	●	●	●	●	●
OpenCL	●	● ²⁾	● ⁵⁾	○ ⁷⁾	● ¹⁰⁾	○ ⁷⁾	○	●	○ ⁷⁾	○	○	○ ⁷⁾

● Ja ○ nein ¹⁾ Kommandozeile (Command Line Interface) ²⁾ über Erweiterungen ³⁾ Windows über Branch ⁴⁾ Amazon Machine Image (AMI) ⁵⁾ OpenCL über Branch ⁶⁾ Bitfusion AMI ⁷⁾ OpenCL-Unterstützung auf der Roadmap ⁸⁾ Windows nicht offiziell unterstützt, siehe <https://github.com/torch/torch7/wiki/Windows>

⁹⁾ über Branches ¹⁰⁾ OpenCL über Drittanbieter ¹¹⁾ APIs für C++, Java und Go noch „experimental“ ¹²⁾ C#, .NET In Beta ¹³⁾ OS-X-Unterstützung via Docker auf der Roadmap ¹⁴⁾ Python via Keras