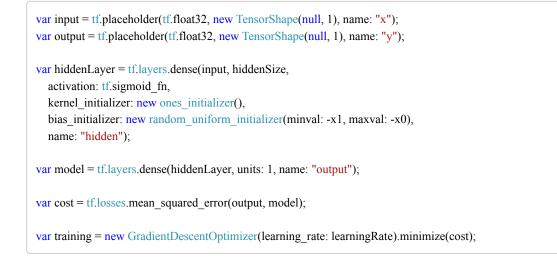


TensorFlow for .NET by Lost Tech allows you to create, train, and use machine learning models with the full power of TensorFlow API on C#, F# or any other .NET language.

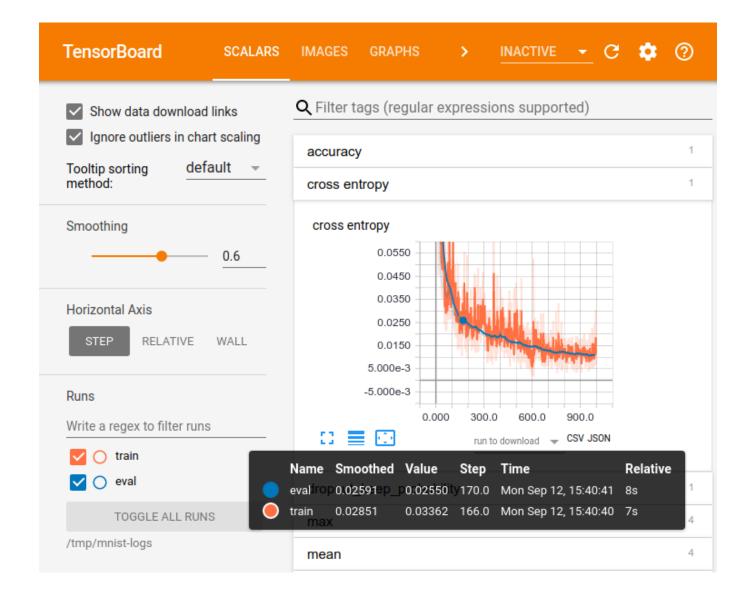


Code sample.

READ OUR ML BLOG

Features

- Access the full set of TensorFlow APIs
 - Build computation graphs, and run them in sessions
 - Use Keras-style high-level APIs
 - Build fast data pipelines, keep logs and model checkpoints
 - Use estimators and the full power of tf.contrib
 - Use eager mode to transform data interactively
 - Many more
- Train and run models on any hardware platform: CPUs, GPUs, TPUs
- Use distributed training features
- Track your training progress with Tensorboard

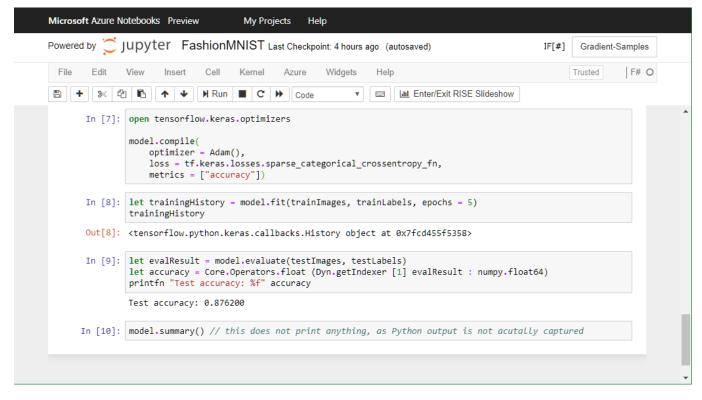


• Easily port numerous existing TensorFlow examples

from simple numerical computation samples to state-of-art models like AlphaZero - the new world's Go champion by DeepMind

- Get started quickly with a collection of samples
- Seek help with the growing community
- Use C# for machine learning
 - Static typing when possible, fallback to dynamic in corner cases
 - IDE support: code completion, documentation hints for classes, functions, and parameters
 - Experimental support for upcoming C# 8.0 features, such as ranges
 - Can be used from C# interactive, and C# kernel for Jupyter

Use F# Jupyter notebook to train deep learning models (provided by Azure for free)



Comparison with TensorFlowSharp

| | TensorFlowSharp | Our TensorFlow |
|------------------------|-----------------|----------------|
| Load TensorFlow models | ✓ | ✓ |
| Train existing models | | |

| | 1 | ✓ |
|---|----|-------------|
| Create new models with low-level API | ✓ | ✓ |
| Create new models with high- level API | × | ✓ |
| Dependencies | TF | TF + Python |
| TensorBoard integration | × | |
| Estimators | × | ✓ |
| Dataset manipulation via tf.data | × | ✓ |
| tf.contrib | × | ✓ |
| Commercial support | × | ✓ |

Documentation & Tutorials

- Our Machine Learning Blog: cool samples, LostTech.TensorFlow news, etc
- See What's New in the latest version
- Getting started
- Reinforcement learning with Unity ML Agents
- Writing billion songs with C# and Deep Learning + Demo
- C# or NOT: train deep convolutional network to classify programming language from a code fragment
- .NET, TensorFlow, and the windmills of Kaggle

Get started with an early tech preview, or sign up for LostTech.TensorFlow News and Releases.

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