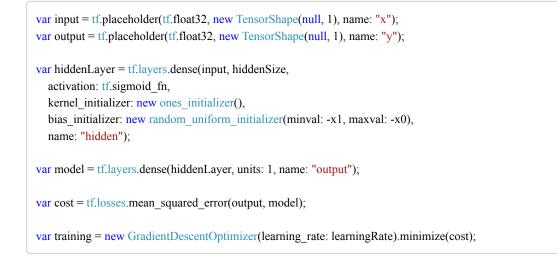


TensorFlow for .NET by Lost Tech allows you to create, train, and use machine learning models with the full power of TensorFlow API on C#, F# or any other .NET language.

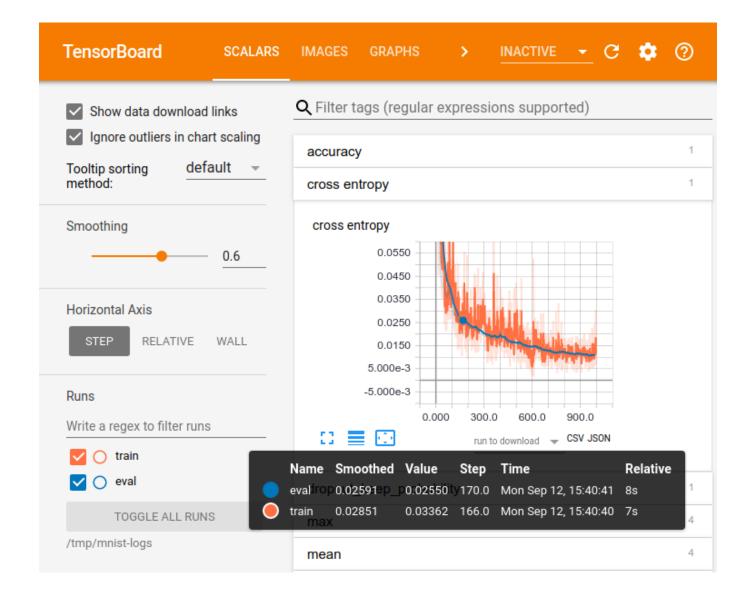


Code sample.

**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

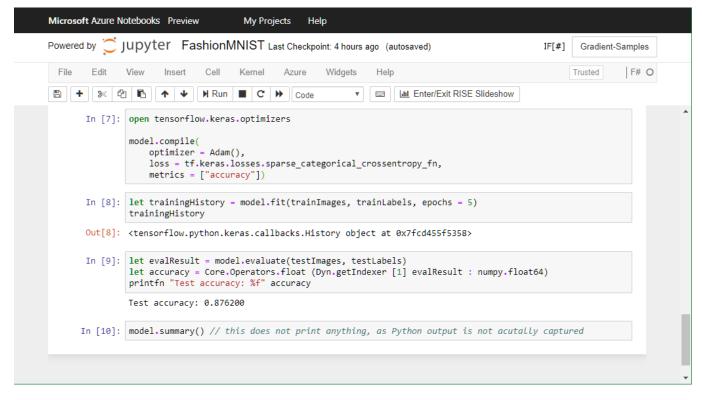


#### • Easily port numerous existing TensorFlow examples

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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