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₄ Apache-2.0

14 hours ago

4 months ago

6 months ago

4 months ago

4 months ago

7 months ago

2 months ago

4 months ago

Save-load

operations

Saving to

filesystem

loading in

IndexedDE

Export trained

model

Layers

Layers

Core

(Ops)

Layers

Layers

Contact GitHub Pricing API Training Blog About

from tfjs-

node and

load it in

browser

Load

model

converted

from Keras

Loading

model

pretrained

Node.js

and

API

type

Layers

Layers

Layers

Layers

Layers

Layers

Inference

Node.js

Browser

Browser:

Worker

Node.js

Browser

Browser

Web

1,122

<u>lll</u> Insights Pull requests 13 <> Code Security Examples built with TensorFlow.js https://js.tensorflow.org/

№ 31 branches

tensorflow / tfjs-examples

288 commits

New pull request Clone or download • Branch: master ▼ Create new file **Upload files Find File** kangyizhang Add a new Node.js example: abalone (#328) Latest commit d157514 14 hours ago .vscode snapshot 2 years ago **a**balone-node Add a new Node.js example: abalone (#328) 14 hours ago addition-rnn-webworker Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago addition-rnn Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago baseball-node 2 months ago Bump lodash from 4.17.11 to 4.17.14 in /baseball-node (#297) boston-housing Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago **art-pole** chrome-extension Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago custom-layer Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago data-csv Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago data-generator Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago last month date-conversion-attention Bump lodash from 4.17.11 to 4.17.14 in /date-conversion-attention (#298) 2 months ago electron [electron] Add electron example (#288) fashion-mnist-vae Bump lodash from 4.17.11 to 4.17.13 in /fashion-mnist-vae (#303) 2 months ago getting-started Update the getting started example to actually log the values from th... 10 months ago intent-classifier last month Bump lodash from 4.17.11 to 4.17.14 in /intent-classifier (#299) iris-fitDataset Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago iris Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago Bump lodash from 4.17.11 to 4.17.14 in /jena-weather (#302) last month iena-weather 23 days ago Istm-text-generation Add webworker example (#322) 2 months ago Bump lodash from 4.17.11 to 4.17.14 in /mnist-acgan (#305) mnist-acgan mnist-core Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago mnist-node Remove package-lock.json in mnist-node example (#324) 15 days ago mnist-transfer-cnn Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago mnist Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago 4 days ago mobilenet Upgrade browser examples to tfjs 1.2.8 (#326) Upgrade browser examples to tfjs 1.2.8 (#326) polynomial-regression-core 4 days ago polynomial-regression Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago 2 months ago quantization Bump lodash from 4.17.11 to 4.17.14 in /quantization (#311) sentiment Bump lodash from 4.17.11 to 4.17.14 in /sentiment (#315) 2 months ago shared 2 months ago Fix security warnings. (#291) im simple-object-detection Bump lodash from 4.17.11 to 4.17.14 in /simple-object-detection (#314) 2 months ago snake-dqn [snake-dqn] fix: typo (#325) 7 days ago translation 2 months ago Bump lodash from 4.17.11 to 4.17.14 in /translation (#320) Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago tsne-mnist-canvas 2 months ago in visualize-convnet Bump lodash from 4.17.11 to 4.17.14 in /visualize-convnet (#316) 4 days ago webcam-transfer-learning Upgrade browser examples to tfjs 1.2.8 (#326) 4 days ago website-phishing Upgrade browser examples to tfjs 1.2.8 (#326) agitignore Add yalc.lock to .gitignore (#139) 11 months ago CONTRIBUTING.md snapshot 2 years ago **LICENSE** snapshot 2 years ago

Add a new Node.js example: abalone (#328)

Add 'yarn presubmit' command and cloudbuild.yml (#269)

[date-conversion-attention] Initial check-in of date-conversion-atten...

Model type

Multilayer

perceptron

SimpleRNN,

SimpleRNN,

GRU and

Multilayer

perceptron

Multilayer

perceptron

Policy

gradient

GRU and

RNN:

LSTM

RNN:

LSTM

Training

Node.js

Browser

Browser:

Web

Worker

Node.js

Browser

Browser

Don't remove subdirs in the example folder (#240)

Upgrade browser-only examples to tfjs 1.2.2 (#283)

README.md

deploy.sh

package.json

presubmit.ts

update-tfjs-version

Example

name

abalone-

addition-

addition-

webworker

baseball-

boston-

housing

cart-pole

node

rnn

rnn-

node

TensorFlow.js Examples

Overview of Examples

Demo

link

This repository contains a set of examples implemented in TensorFlow.js.

Input

data type

Numeric

Text

Text

Numeric

Numeric

Each example directory is standalone so the directory can be copied to another project.

Task type

Loading data

from local file

and training in

Sequence-to-

Sequence-to-

sequence

Multiclass

classification

Regression

learning

Reinforcement

sequence

Node.js

test_util.js

yarn.lock

EXECUTE: README.md

cloudbuild.yml

			learning	gradient				
chrome- extension		Image	(Deploying TF.js in Chrome extension)	Convnet		Browser		
custom- layer	0		(Defining a custom Layer subtype)			Browser	Layers	
data-csv	©		Building a tf.data.Dataset from a remote CSV					
data- generator	©		Building a tf.data.Dataset using a generator	Regression	Browser	Browser	Layers	
date- conversion- attention		Text	Text-to-text conversion	Attention mechanism, RNN	Node.js	Browser and Node.js	Layers	Saving to filesystem and loading in browser
electron		Image	(Deploying TF.js in Electron- based desktop apps)	Convnet		Node.js		
fashion- mnist-vae		Image	Generative	Variational autoencoder (VAE)	Node.js	Browser	Layers	Export trained model from tfjs- node and load it in browser
iris	©	Numeric	Multiclass classification	Multilayer perceptron	Browser	Browser	Layers	
iris- fitDataset	0	Numeric	Multiclass classification	Multilayer perceptron	Browser	Browser	Layers	
jena- weather	©	Sequence	Sequence-to- prediction	MLP and RNNs	Browser and Node	Browser	Layers	
lstm-text- generation	©	Text	Sequence prediction	RNN: LSTM	Browser	Browser	Layers	IndexedD
mnist	©	Image	Multiclass classification	Convolutional neural network	Browser	Browser	Layers	
mnist-acgan		lmage	Generative Adversarial Network (GAN)	Convolutional neural network; GAN	Node.js	Browser	Layers	Saving to filesystem from Node.js and loading it in the browser
mnist-core	©	Image	Multiclass classification	Convolutional neural network	Browser	Browser	Core (Ops)	
mnist-node		Image	Multiclass classification	Convolutional neural network	Node.js	Node.js	Layers	Saving to filesystem
mnist- transfer-cnn	©	Image	Multiclass classification (transfer learning)	Convolutional neural network	Browser	Browser	Layers	Loading pretrained model
mobilenet	©	Image	Multiclass classification	Convolutional neural network		Browser	Layers	Loading pretrained model
polynomial- regression	©	Numeric	Regression	Shallow neural network	Browser	Browser	Layers	
polynomial- regression- core	0	Numeric	Regression	Shallow neural network	Browser	Browser	Core (Ops)	
quantization		Various	Demonstrates the effect of post-training weight quantization	Various	Node.js	Node.js	Layers	
sentiment	©	Text	Sequence-to- binary- prediction	LSTM, 1D convnet	Node.js or Python	Browser	Layers	Load model from Kera and tfjs- node
simple- object- detection	©	Image	Object detection	Convolutional neural network (transfer	Node.js	Browser	Layers	Export trained model from tfjs- node and

Deep Q-

Network

(DQN)

LSTM

tSNE

neural

network

Multilayer

perceptron

encoder and

Convolutional

decoder

Node.js

Node.js

Python

Browser

Browser

Browser

or

Browser

Browser

Browser

Browser

Browser

Reinforcement

Sequence-to-

sequence

Dimension

data

reduction and

visualization

classification

classification

Except for getting_started, all the examples require the following dependencies to be installed.

Multiclass

(transfer

learning)

Binary

Text

Image

Numeric

learning

Node.js version 8.9 or higher NPM cli OR Yarn

Dependencies

How to build an example cd into the directory If you are using yarn:

yarn yarn watch

cd mnist-core

snake-dqn

translation

tsne-mnist-

canvas

webcam-

transfer-

learning

website-

phishing

If you are using npm:

cd mnist-core

npm install npm run watch

Details The convention is that each example contains two scripts:

deployment.

yarn watch or npm run watch: starts a local development HTTP server which watches the filesystem for changes so you can edit the code (JS or HTML) and see changes when you refresh the page immediately.

Contributing

If you want to contribute an example, please reach out to us on Github issues before sending us a pull request as we are trying to keep this set of examples small and highly curated.

yarn build or npm run build: generates a dist/ folder which contains the build artifacts and can be used for

Running Presubmit Tests Before you send a pull request, it is a good idea to run the presubmit tests and make sure they all pass. To do that, execute

executing yarn, followed by yarn test and/or yarn lint.

the following commands in the root directory of tfjs-examples:

yarn yarn presubmit The yarn presubmit command executes the unit tests and lint checks of all the exapmles that contain the yarn test and/or

yarn lint scripts. You may also run the tests for individual exampls by cd'ing into their respective subdirectory and