TensorFlow Hub is a repository of trained machine learning models.

TensorFlow Hub is a repository of trained machine learning models ready for fine-tuning and deployable anywhere. Reuse trained models like BERT and Faster R-CNN with just a few lines of code.

```
!pip install --upgrade tensorflow

import tensorflow_hub as hub

model = hub.KerasLayer("https://
embeddings = model(["The rain in
                    "mainly", "In

print(embeddings.shape)  #(4,128)
```

See the guide (https://www.tensorflow.org/hub/overview) (https://www.tensorflow.org/hub/overview)

Learn about how to use TensorFlow Hub and how it works.

See tutorials (https://www.tensorflow.org/hub/tutorials) (https://www.tensorflow.org/hub/tutorials)

Tutorials show you end-to-end examples using TensorFlow Hub.

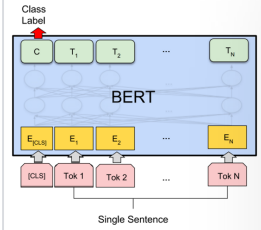
See models

(https://tfhub.dev) (https://tfhub.dev)

Find trained TF, TFLite, and TF.js models for your use case.

Models

Find trained models from the TensorFlow community on TFHub.dev (https://tfhub.dev)

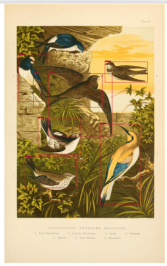


(https://tfhub.dev/tensorflow/bert_en_uncased_L-12_H-768_A-12/3)

BERT

(https://tfhub.dev/tensorflow/bert_en_uncased_L-12_H-768_A-12/3)

Check out BERT for NLP tasks including text classification and question answering.



(https://tfhub.dev/tensorflow/faster_rcnn/inception_resnet_v2_640x640/1)

Object detection

(https://tfhub.dev/tensorflow/faster_rcnn/inception_resnet_v2_640x640/1)

Use the Faster R-CNN Inception ResNet V2 640x640 model for detecting

(https://tfhub.dev/google/magenta/arbitrary-image-stylization-v1-256/2)

Style transfer

(https://tfhub.dev/google/magenta/arbitrary-image-stylization-v1-256/2)

Transfer the style of one image to another using the image style transfer model.

(https://tfhub.dev/google/lite-model/aiy/vision/classifier/food_V1/1)

On-device food classifier

(https://tfhub.dev/google/lite-model/aiy/vision/classifier/food_V1/1)

Use this TFLite model to classify photos of food on a

See the model

objects in images.
See the model

mobile device.
See the model

News & announcements

Check out our blog (https://blog.tensorflow.org/search?label=TensorFlow+Hub) for more announcements and view the latest #TFHub updates (https://twitter.com/search?q=%23TFHub%20from%3ATensorFlow&src=typed_query&f=live) on Twitter

TensorFlow Hub for Real World Impact at Google I/O

(https://www.youtube.com/watch?v=BE5nkhFe3AE)

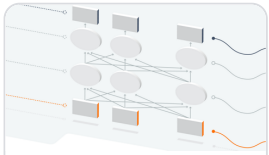
Learn how you can use TensorFlow Hub to build ML solutions

(https://g.co/on-device-ml)

On-device ML solutions

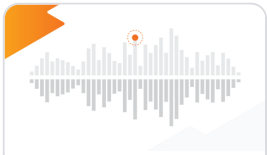
(https://g.co/on-device-ml)

To explore ML solutions for your mobile and web apps including TensorFlow Hub, visit the Google on-device machine



(https://blog.tensorflow.org/2020/12/making-bert-easier-with-preprocessing-models-from-tensorflow-hub.html)

Making BERT Easier with Preprocessing Models From TensorFl



(https://blog.tensorflow.org/2020/06/estimating-pitch-with-spice-and-tensorflow-hub.html)

From singing to musical scores: Estimating pitch with SPICE and Tensorfl

with real world impact.

Watch the vid...

learning page.

Visit the site

ow Hub (https://blog.tensorflow.org/2020/12/making-bert-easier-with-preprocessing-models-from-tensorflow-hub.html)

TensorFlow Hub makes BERT simple to use with new preprocessing models.

Read the blog

ow Hub (https://blog.tensorflow.org/2020/06/estimating-pitch-with-spice-and-tensorflow-hub.html)

Learn how to use the SPICE model to automatically transcribe sheet music from live audio.

Read the blog

Community

Join the TensorFlow Hub community

Ask question (https://stackoverflow.com/questions/tagged/tensorflow-hub)

TensorFlow Hub (https://github.com/tensorflow/hub)

Contribute model (https://www.tensorflow.org/hub/publish)

Community discuss (https://groups.google.com/a/tensorflow.org/forum/#!forum/hub)

on Stack Overflow (https://stackoverflow.com/questions/tagged/tensorflow-hub)

on GitHub (https://github.com/tensorflow/hub)

dels (https://www.tensorflow.org/hub/publish)

ussion forum (https://groups.google.com/a/tensorflow.org/forum/#!forum/hub)

Get started with TensorFlow Hub (https://tfhub.dev)

Find trained models ↗(https://tfhub.dev)