

Try out Gemini's text and image reasoning capabilities in Google AI Studio—it's fast and free

Build with Gemini (https://ai.google.dev/?utm_source=tensorflow&utm_medium=referral)

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.



(<https://www.tensorflow.org/hub/overview>)

See the guide

(<https://www.tensorflow.org/hub/overview>)

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



(<https://www.tensorflow.org/hub/tutorials>)

See tutorials

(<https://www.tensorflow.org/hub/tutorials>)

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

```
!pip install --upgrade tensorflow_hub
```

```
import tensorflow_hub as hub
```

```
model = hub.KerasLayer("https://tfhub.dev/google  
embeddings = model(["The rain in Spain.", "falls  
"mainly", "In the plain!"])
```

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



See models (<https://tfhub.dev>)

Find trained TF, TFLite, and TF.js models for your
(<https://tfhub.dev>) use case.

Models

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

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

BERT
(<https://tfhub.dev>)

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

Object

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

Style transfer
(<https://tfhub.dev/google>)

Food V1.1

Type	Score
Sachertorte	0.821
Black Forest gateau	0.028
Devil's food cake	0.023
Chocolate brownie	0.014

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

On-device
food classifier

/tensorflow
/bert_en_uncased_L-
12_H-768_A-12/3)

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

[See the model](#) ↗ ...

detection

(https://tfhub.dev
/tensorflow/faster_rcnn
/inception_resnet_v2_640
x640/1)

Use the Faster R-CNN
Inception ResNet V2
640x640 model for
detecting objects in
images.

[See the model](#) ↗ ...

/magenta/arbitrary-image-
stylization-v1-256/2)

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

[See the model](#) ↗ ...

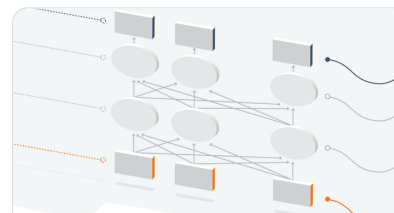
(https://tfhub.dev/google
/lite-model/aiy/vision
/classifier/food_V1/1)

Use this TFLite model
to classify photos of
food on a mobile
device.

[See the model](#) ↗ ...

News & announcements

Check out [our blog](https://blog.tensorflow.org/search?label=TensorFlow+Hub) (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) (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 with real world impact.

Watch the video ↗ ...

(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 learning page.

Visit the site ↗ ...

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

Making BERT Easier with Preprocessing Models From TensorFlow 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 → ...

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

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



TensorFlow Hub on GitHub

(<https://github.com/tensorflow/hub>)

(<https://github.com/tensorflow/hub>)



Contribute models

(<https://www.tensorflow.org/hub/publish>)

(<https://www.tensorflow.org/hub/publish>)

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

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