

```
!pip install --upgrade keras-cv tensorflow
```

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Collecting keras-cv
  Downloading keras_cv-0.9.0-py3-none-any.whl.metadata (12 kB)
Requirement already satisfied: tensorflow in /usr/local/lib/python3.12/dist-packages (2.19.0)
Collecting tensorflow
  Downloading tensorflow-2.20.0-cp312-cp312-manylinux_2_17_x86_64_manylinux2014_x86_64.whl.metadata (4.5 kB)
Requirement already satisfied: packaging in /usr/local/lib/python3.12/dist-packages (from keras-cv) (25.0)
Requirement already satisfied: absl-py in /usr/local/lib/python3.12/dist-packages (from keras-cv) (1.4.0)
Requirement already satisfied: regex in /usr/local/lib/python3.12/dist-packages (from keras-cv) (2025.11.3)
Requirement already satisfied: tensorflow-datasets in /usr/local/lib/python3.12/dist-packages (from keras-cv) (4.9.9)
Collecting keras-core (from keras-cv)
  Downloading keras_core-0.1.7-py3-none-any.whl.metadata (4.3 kB)
Requirement already satisfied: kagglehub in /usr/local/lib/python3.12/dist-packages (from keras-cv) (0.3.13)
Requirement already satisfied: astunparse>=1.6.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (1.6.3)
Requirement already satisfied: flatbuffers>=24.3.25 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (25.12.19)
Requirement already satisfied: gast!=0.5.0,!=0.5.1,!=0.5.2,>=0.2.1 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (0.2.0)
Requirement already satisfied: google_pasta>=0.1.1 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (0.2.0)
Requirement already satisfied: libclang>=13.0.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (18.1.1)
Requirement already satisfied: opt_einsum>=2.3.2 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (3.4.0)
Requirement already satisfied: protobuf>=5.28.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (5.29.5)
Requirement already satisfied: requests<3,>=2.21.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (2.32.4)
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Requirement already satisfied: six>=1.12.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (1.17.0)
Requirement already satisfied: termcolor>=1.1.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (3.3.0)
Requirement already satisfied: typing_extensions>=3.6.6 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (4.15)
Requirement already satisfied: wrapt>=1.11.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (2.0.1)
Requirement already satisfied: grpcio<2.0,>=1.24.3 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (1.76.0)
Collecting tensorboard~2.20.0
  Downloading tensorboard-2.20.0-py3-none-any.whl.metadata (1.8 kB)
Requirement already satisfied: keras>=3.10.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (3.10.0)
Requirement already satisfied: numpy>=1.26.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (2.0.2)
Requirement already satisfied: h5py>=3.11.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (3.15.1)
Requirement already satisfied: ml_dtypes<1.0.0,>=0.5.1 in /usr/local/lib/python3.12/dist-packages (from tensorflow) (0.5.4)
Requirement already satisfied: wheel<1.0,>=0.23.0 in /usr/local/lib/python3.12/dist-packages (from astunparse>=1.6.0->tensorflow) (0.44.0)
Requirement already satisfied: rich in /usr/local/lib/python3.12/dist-packages (from keras>=3.10.0->tensorflow) (13.9.4)
Requirement already satisfied: namex in /usr/local/lib/python3.12/dist-packages (from keras>=3.10.0->tensorflow) (0.1.0)
Requirement already satisfied: optree in /usr/local/lib/python3.12/dist-packages (from keras>=3.10.0->tensorflow) (0.18.0)
Requirement already satisfied: charset_normalizer<4,>=2 in /usr/local/lib/python3.12/dist-packages (from requests<3,>=2.21.0->tensorflow) (3.4.0)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.12/dist-packages (from requests<3,>=2.21.0->tensorflow) (3.10.1)
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Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.12/dist-packages (from requests<3,>=2.21.0->tensorflow) (2025.11.11)
Requirement already satisfied: markdown>=2.6.8 in /usr/local/lib/python3.12/dist-packages (from tensorboard~2.20.0->tensorflow) (3.7.0)
Requirement already satisfied: pillow in /usr/local/lib/python3.12/dist-packages (from tensorboard~2.20.0->tensorflow) (11.0.0)
Requirement already satisfied: tensorboard-data-server<0.8.0,>=0.7.0 in /usr/local/lib/python3.12/dist-packages (from tensorboard~2.20.0->tensorflow) (0.19.0)
Requirement already satisfied: werkzeug>=1.0.1 in /usr/local/lib/python3.12/dist-packages (from tensorboard~2.20.0->tensorflow) (3.1.0)
Requirement already satisfied: pyyaml in /usr/local/lib/python3.12/dist-packages (from kagglehub->keras-cv) (6.0.3)
Requirement already satisfied: tqdm in /usr/local/lib/python3.12/dist-packages (from kagglehub->keras-cv) (4.67.1)
Requirement already satisfied: dm-tree in /usr/local/lib/python3.12/dist-packages (from keras-core->keras-cv) (0.1.9)
Requirement already satisfied: array_record>=0.5.0 in /usr/local/lib/python3.12/dist-packages (from tensorflow-datasets->keras-cv) (0.1.9)
Requirement already satisfied: etils>=1.9.1 in /usr/local/lib/python3.12/dist-packages (from etils[edc,enp,epath,epy,etree]>=1.9.1->tensorflow-datasets->keras-cv) (1.12.0)
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Requirement already satisfied: einops in /usr/local/lib/python3.12/dist-packages (from etils[edc,enp,epath,epy,etree]>=1.9.1->tensorflow-datasets->keras-cv) (0.8.0)
```

```
import keras_cv
import matplotlib.pyplot as plt

model = keras_cv.models.StableDiffusion(img_width=512, img_height=512)

prompt = "A futuristic city with floating gardens, cinematic lighting, high resolution"

images = model.text_to_image(prompt, batch_size=1)

plt.imshow(images[0])
plt.axis("off")
plt.show()
```

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1356917/1356917 — 0s 0us/step

Downloading data from https://huggingface.co/fchollet/stable-diffusion/resolve/main/kcv_encoder.h5
492466864/492466864 — 56s 0us/step

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3439090152/3439090152 — 138s 0us/step

50/50 — 2220s 39s/step

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198180272/198180272 — 11s 0us/step



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