```
!pip install googletrans==3.1.0a0
!pip install --upgrade diffusers transformers -q
```

```
      Downloading httpcore-0.9.1-py3-none-any.whl (42 kB)
Show command palette (Ctrl+Shift+P) ──────────────────── 42.6/42.6 kB 4.1 MB/s eta 0:00:00
      Downloading idna-2.10-py2.py3-none-any.whl (58 kB)
                                              58.8/58.8 kB 6.8 MB/s eta 0:00:00
      Downloading h2-3.2.0-py2.py3-none-any.whl (65 kB)
                                              65.0/65.0 kB 6.8 MB/s eta 0:00:00
      Downloading rfc3986-1.5.0-py2.py3-none-any.whl (31 kB)
      Downloading hstspreload-2025.1.1-py3-none-any.whl (1.3 MB)
                                              1.3/1.3 MB 30.2 MB/s eta 0:00:00
      Downloading h11-0.9.0-py2.py3-none-any.whl (53 kB)
                                              53.6/53.6 kB 5.2 MB/s eta 0:00:00
      Downloading hpack-3.0.0-py2.py3-none-any.whl (38 kB)
      Downloading hyperframe-5.2.0-py2.py3-none-any.whl (12 kB)
      Building wheels for collected packages: googletrans
        Building wheel for googletrans (setup.py) ... done
        Created wheel for googletrans: filename=googletrans-3.1.0a0-py3-none-any.whl size=16352 sha256=7bb0079f89293cfebea508717444d654
        Stored in directory: /root/.cache/pip/wheels/81/f2/e0/d578821d723b473d18610ea93810e4a5402463919f07e603d9
      Successfully built googletrans
      Installing collected packages: rfc3986, hyperframe, hpack, h11, chardet, idna, hstspreload, h2, httpcore, httpx, googletrans
        Attempting uninstall: hyperframe
          Found existing installation: hyperframe 6.1.0
          Uninstalling hyperframe-6.1.0:
            Successfully uninstalled hyperframe-6.1.0
        Attempting uninstall: hpack
          Found existing installation: hpack 4.1.0
          Uninstalling hpack-4.1.0:
            Successfully uninstalled hpack-4.1.0
        Attempting uninstall: h11
          Found existing installation: h11 0.14.0
          Uninstalling h11-0.14.0:
            Successfully uninstalled h11-0.14.0
        Attempting uninstall: chardet
          Found existing installation: chardet 5.2.0
          Uninstalling chardet-5.2.0:
            Successfully uninstalled chardet-5.2.0
        Attempting uninstall: idna
          Found existing installation: idna 3.10
          Uninstalling idna-3.10:
            Successfully uninstalled idna-3.10
        Attempting uninstall: h2
          Found existing installation: h2 4.2.0
          Uninstalling h2-4.2.0:
            Successfully uninstalled h2-4.2.0
        Attempting uninstall: httpcore
          Found existing installation: httpcore 1.0.7
          Uninstalling httpcore-1.0.7:
            Successfully uninstalled httpcore-1.0.7
        Attempting uninstall: httpx
          Found existing installation: httpx 0.28.1
          Uninstalling httpx-0.28.1:
            Successfully uninstalled httpx-0.28.1
      ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the
      langsmith 0.3.9 requires httpx<1,>=0.23.0, but you have httpx 0.13.3 which is incompatible.
      openai 1.61.1 requires httpx<1,>=0.23.0, but you have httpx 0.13.3 which is incompatible.
      Successfully installed chardet-3.0.4 googletrans-3.1.0a0 h11-0.9.0 h2-3.2.0 hpack-3.0.0 hstspreload-2025.1.1 httpcore-0.9.1 httpx
                                              44.0/44.0 kB 4.1 MB/s eta 0:00:00
                                              10.0/10.0 MB 99.3 MB/s eta 0:00:00
```

```
from googletrans import Translator
from pathlib import Path
import tqdm
import torch
import pandas as pd
import numpy as np
from diffusers import StableDiffusionPipeline
from transformers import pipeline, set_seed
import matplotlib.pyplot as plt
import matplotlib.pyplot as plt
import cv2
```

```
def get_translation(text,dest_lang):
  translator = Translator()
  translated_text = translator.translate(text, dest=dest_lang)
  return translated_text.text

class CFG:
    device = "cuda"
    seed = 42
```

McAfee WebAdvisor   ✕
Your download's being scanned.
We'll let you know if there's an issue.

```
    seed = 42
    try: # this will try to run the code using the GPU
        generator = torch.Generator(device).manual_seed(seed)
    except Exception as e: # handles exceptions such as the one observed
        print(f"Error: {e}") # prints the exception for debugging
        device = "cpu" # if GPU usage fails, defaults to CPU
```
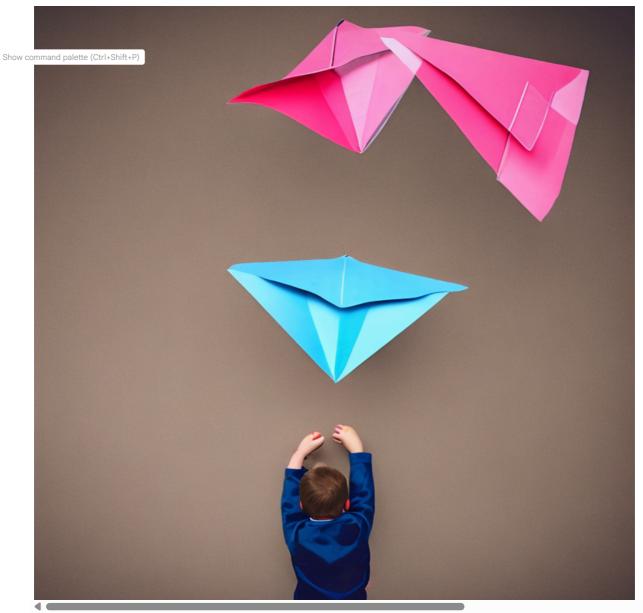Show command palette (Ctrl+Shift+P) `ienerator(device).manual_seed(seed) # creates the generator using the CPU instead`
```
    image_gen_steps = 35
    image_gen_model_id = "stabilityai/stable-diffusion-2"
    image_gen_size = (900,900)
    image_gen_guidance_scale = 9
    prompt_gen_model_id = "gpt-omni/mini-omni"
    prompt_dataset_size = 6
    prompt_max_length = 12


image_gen_model = StableDiffusionPipeline.from_pretrained(
    CFG.image_gen_model_id, torch_dtype=torch.float16,
    revision="fp16", use_auth_token='hf_BkMKvtYURqKOmGrd', guidance_scale=9
)
image_gen_model = image_gen_model.to(CFG.device)
```

⇥ /usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/_auth.py:94: UserWarning:
   The secret `HF_TOKEN` does not exist in your Colab secrets.
   To authenticate with the Hugging Face Hub, create a token in your settings tab (https://huggingface.co/settings/tokens), set it as :
   You will be able to reuse this secret in all of your notebooks.
   Please note that authentication is recommended but still optional to access public models or datasets.
     warnings.warn(

   model_index.json: 100%   511/511 [00:00<00:00, 52.6kB/s]

   /usr/local/lib/python3.11/dist-packages/diffusers/pipelines/pipeline_loading_utils.py:242: FutureWarning: You are loading the varia
     warnings.warn(

   Fetching 12 files: 100%   12/12 [00:21<00:00, 2.19s/it]

   pytorch_model.bin: 100%   681M/681M [00:11<00:00, 81.6MB/s]

   text_encoder%2Fconfig.json: 100%   624/624 [00:00<00:00, 8.34kB/s]

   tokenizer%2Fmerges.txt: 100%   525k/525k [00:00<00:00, 1.22MB/s]

   tokenizer%2Fspecial_tokens_map.json: 100%   460/460 [00:00<00:00, 6.80kB/s]

   scheduler%2Fscheduler_config.json: 100%   345/345 [00:00<00:00, 4.13kB/s]

   tokenizer%2Fvocab.json: 100%   1.06M/1.06M [00:00<00:00, 2.60MB/s]

   unet%2Fconfig.json: 100%   900/900 [00:00<00:00, 11.1kB/s]

   tokenizer%2Ftokenizer_config.json: 100%   815/815 [00:00<00:00, 8.38kB/s]

   diffusion_pytorch_model.bin: 100%   1.73G/1.73G [00:21<00:00, 62.1MB/s]

   diffusion_pytorch_model.bin: 100%   167M/167M [00:02<00:00, 62.3MB/s]

   vae%2Fconfig.json: 100%   602/602 [00:00<00:00, 5.01kB/s]

   Keyword arguments {'use_auth_token': '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', 'guidance_scale': 9} are not expected by StableDiffusi
   Loading pipeline components...: 100%   5/5 [00:03<00:00, 1.39it/s]

   An error occurred while trying to fetch /root/.cache/huggingface/hub/models--stabilityai--stable-diffusion-2/snapshots/d75b612d366d8
   Defaulting to unsafe serialization. Pass `allow_pickle=False` to raise an error instead.
   An error occurred while trying to fetch /root/.cache/huggingface/hub/models--stabilityai--stable-diffusion-2/snapshots/d75b612d366d8
   Defaulting to unsafe serialization. Pass `allow_pickle=False` to raise an error instead.

```
def generate_image(prompt, model):
    image = model(
        prompt, num_inference_steps=CFG.image_gen_steps,
        generator=CFG.generator,
        guidance_scale=CFG.image_gen_guidance_scale
    ).images[0]

    image = image.resize(CFG.image_gen_size)
    return image


translation = get_translation("పిల్లలు కాగితపు విమానాలు ఎగురవేస్తున్నారు, రంగుల ఫొటో","en")
generate_image(translation, image_gen_model)
```

100%   35/35 [00:11<00:00,   3.29it/s]

Show command palette (Ctrl+Shift+P)


```
translation = get_translation("అందమైన అడవిలో నది మరియు కొండల మధ్యలోంచి సూర్యుడు","en")
generate_image(translation, image_gen_model)
```

100%   35/35 [00:10<00:00, 3.19it/s]

Show command palette (Ctrl+Shift+P)

```
pip show fastapi pydantic
```



```
Name: fastapi
Version: 0.115.8
Summary: FastAPI framework, high performance, easy to learn, fast to code, ready for production
Home-page: https://github.com/fastapi/fastapi
Author:
Author-email: =?utf-8?q?Sebasti=C3=A1n_Ram=C3=ADrez?= <tiangolo@gmail.com>
License:
Location: /usr/local/lib/python3.11/dist-packages
Requires: pydantic, starlette, typing-extensions
Required-by: gradio

Name: pydantic
Version: 2.10.6
Summary: Data validation using Python type hints
Home-page: https://github.com/pydantic/pydantic
Author:
Author-email: Samuel Colvin <s@muelcolvin.com>, Eric Jolibois <em.jolibois@gmail.com>, Hasan Ramezani <hasan.r67@gmail.com>, Adrian
License:
Location: /usr/local/lib/python3.11/dist-packages
Requires: annotated-types, pydantic-core, typing-extensions
Required-by: albumentations, confection, fastapi, google-cloud-aiplatform, google-genai, google-generativeai, gradio, langchain, lan
```

```
pip install --upgrade fastapi pydantic
```

```
Requirement already satisfied: fastapi in /usr/local/lib/python3.11/dist-packages (0.115.8)
Requirement already satisfied: pydantic in /usr/local/lib/python3.11/dist-packages (2.10.6)
Requirement already satisfied: starlette<0.46.0,>=0.40.0 in /usr/local/lib/python3.11/dist-packages (from fastapi) (0.45.3)
Requirement already satisfied: typing-extensions>=4.8.0 in /usr/local/lib/python3.11/dist-packages (from fastapi) (4.12.2)
Requirement already satisfied: annotated-types>=0.6.0 in /usr/local/lib/python3.11/dist-packages (from pydantic) (0.7.0)
Requirement already satisfied: pydantic-core==2.27.2 in /usr/local/lib/python3.11/dist-packages (from pydantic) (2.27.2)
Requirement already satisfied: anyio<5,>=3.6.2 in /usr/local/lib/python3.11/dist-packages (from starlette<0.46.0,>=0.40.0->fastapi)
Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.11/dist-packages (from anyio<5,>=3.6.2->starlette<0.46.0,>=0.40.0
Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.11/dist-packages (from anyio<5,>=3.6.2->starlette<0.46.0,>=0.4
```

```
pip install "pydantic<2" --force-reinstall
```