

```
1 from google.colab import drive
2 drive.mount('/content/drive')
3
```

↗ Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

```
1 import torch
2 print(torch.__version__)
3 print(torch.cuda.is_available())
4
```

↗ 2.7.1+cu118
True

```
1 !pip install --upgrade torch torchvision torchaudio
2 !pip install --upgrade diffusers transformers accelerate scipy
3 !pip install speechrecognition pydub
4
```

↗ Requirement already satisfied: nvidia-cusolver-cu11==11.4.1.48 in /usr/local/lib/python3.11/dist-packages (from torch) (11.4.1.48)
Requirement already satisfied: nvidia-cuspars-cu11==11.7.5.86 in /usr/local/lib/python3.11/dist-packages (from torch) (11.7.5.86)
Requirement already satisfied: nvidia-nccl-cu11==2.21.5 in /usr/local/lib/python3.11/dist-packages (from torch) (2.21.5)
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Requirement already satisfied: triton==3.3.1 in /usr/local/lib/python3.11/dist-packages (from torch) (3.3.1)
Requirement already satisfied: setuptools==40.8.0 in /usr/local/lib/python3.11/dist-packages (from triton==3.3.1->torch) (75.2.0)
Requirement already satisfied: numpy in /usr/local/lib/python3.11/dist-packages (from torchvision) (2.0.2)
Requirement already satisfied: pillow!=8.3.*,>=5.3.0 in /usr/local/lib/python3.11/dist-packages (from torchvision) (11.2.1)
Requirement already satisfied: mpmath<1.4,>=1.1.0 in /usr/local/lib/python3.11/dist-packages (from sympy==1.13.3->torch) (1.3.0)
Requirement already satisfied: MarkupSafe==2.0 in /usr/local/lib/python3.11/dist-packages (from Jinja2->torch) (3.0.2)
Requirement already satisfied: diffusers in /usr/local/lib/python3.11/dist-packages (0.33.1)
Requirement already satisfied: transformers in /usr/local/lib/python3.11/dist-packages (4.52.4)
Requirement already satisfied: accelerate in /usr/local/lib/python3.11/dist-packages (1.7.0)
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Requirement already satisfied: packaging==20.0 in /usr/local/lib/python3.11/dist-packages (from transformers) (24.2)
Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.11/dist-packages (from transformers) (6.0.2)
Requirement already satisfied: tokenizers<0.22,>=0.21 in /usr/local/lib/python3.11/dist-packages (from transformers) (0.21.1)
Requirement already satisfied: tqdm==4.27 in /usr/local/lib/python3.11/dist-packages (from transformers) (4.67.1)
Requirement already satisfied: psutil in /usr/local/lib/python3.11/dist-packages (from accelerate) (5.9.5)
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Requirement already satisfied: nvidia-cuda-nvrtc-cu11==11.8.89 in /usr/local/lib/python3.11/dist-packages (from torch==2.0.0->accelerate) (11.8.89)
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Requirement already satisfied: mpmath<1.4,>=1.1.0 in /usr/local/lib/python3.11/dist-packages (from sympy==1.13.3->torch==2.0.0->accelerate) (1.1.0)
Requirement already satisfied: MarkupSafe==2.0 in /usr/local/lib/python3.11/dist-packages (from Jinja2->torch==2.0.0->accelerate) (2.0.0)
Requirement already satisfied: speechrecognition in /usr/local/lib/python3.11/dist-packages (3.14.3)
Requirement already satisfied: pydub in /usr/local/lib/python3.11/dist-packages (0.25.1)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.11/dist-packages (from speechrecognition) (4.14.0)

```
1 !apt install ffmpeg
2
```

↗ Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ffmpeg is already the newest version (7:4.4.2-0ubuntu0.22.04.1).

0 upgraded, 0 newly installed, 0 to remove and 35 not upgraded.

```
1 from google.colab import files
2 uploaded = files.upload()
3
4 from pydub import AudioSegment
5
6 # This works if Ffmpeg is correctly installed
7 audio = AudioSegment.from_file("1.opus") # removed format="opus"
8 audio.export("converted.wav", format="wav")
9
10 import speech_recognition as sr
11
12 recognizer = sr.Recognizer()
13 with sr.AudioFile("converted.wav") as source:
14     audio_data = recognizer.record(source)
15
16 try:
17     text = recognizer.recognize_google(audio_data)
18     print("👂 Recognized Text:", text)
19 except sr.UnknownValueError:
20     print("Could not understand the audio.")
21     text = None
22
23 from diffusers import StableDiffusionPipeline
24 import torch
25
26 pipe = StableDiffusionPipeline.from_pretrained(
27     "runwayml/stable-diffusion-v1-5", torch_dtype=torch.float16
28 ).to("cuda")
29
30 if text:
31     image = pipe(text).images[0]
32     image.save("output.png")
33     display(image)
34
```



Choose Files 1.opus

- 1.opus(audio/ogg) - 3977 bytes, last modified: 10/6/2025 - 100% done

Saving 1.opus to 1 (3).opus

👂 Recognized Text: rose flowers

Loading pipeline components...: 100%

7/7 [00:19<00:00, 3.10s/it]

100%

50/50 [00:07<00:00, 6.86it/s]



