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Welcome To Colab - ColabGetting_started_with_google_colab_al.ipynb - ColabUntitled0.ipynb - ColabSDXL Text-to-Image Generator

Untitled0.ipynb

FileEditViewInsertRuntimeToolsHelp

CommandsCodeTextRun all

RAMDisk

!pip install --upgrade diffusers transformers accelerate safetensors gradio --quiet

Import libraries

from diffusers import DiffusionPipeline

import torch

from PIL import Image

import gradio as gr

import time

Load the SDXL pipeline

model_id = "stabilityai/stable-diffusion-xl-base-1.0"

pipe = DiffusionPipeline.from_pretrained(

model_id, torch_dtype=torch.float16, variant="fp16", use_safetensors=True

)

pipe.to("cuda")

Function to generate image

def generate_image(prompt):

start = time.time()

image = pipe(prompt=prompt).images[0]

image.save("sdxl_output.png")

end = time.time()

print(f"Image generated in {round(end - start, 2)} seconds.")

return image

Gradio Interface

gr.Interface(

fn=generate_image,

inputs=gr.Textbox(label="Enter your prompt"),

outputs=gr.Image(label="Generated Image"),

title="SDXL Text-to-Image Generator",

description="Enter a prompt to generate an image using Stable Diffusion XL"

).launch(share=True)

41.7/41.7 kB 2.4 MB/s eta 0:00:00

Release notes

- Fix issue where nvidia-smi stopped reporting resource utilization for some users who were modifying the version of nvidia used
- Update tensorflow from 2.7 to 2.8, keras from 2.7 to 2.8, numpy from 1.19.5 to 1.21.5, tables from 3.4.4 to 3.7.0

2022-02-04

- Improve UX for opening content alongside your notebook, such as files opened from the file browser. This includes a multi-pane view and drag-drop support
- Better Twitter previews when sharing example Colab notebooks and notebooks opened from GitHub Gists
- Update pandas from 1.1.5 to 1.3.5
- Update openpyxl from 2.5.9 to 3.0.0 and pyarrow from 3.0.0 to 6.0.0
- Link to the release notes from the Help menu

2022-01-28

- Add a copy button to [data tables](#)
- Python LSP support for better completions and code diagnostics. This can be configured in the Editor Settings (Tools → Settings)
- Update [gsread examples](#) in our documentation
- Update gdown from 3.6 to 4.2

2022-01-21

- New documentation for the [google.colab package](#)
- Show GPU RAM in the resource usage tab
- Improved security for mounting Google Drive which disallows mounting Drive from accounts other than the one currently executing the notebook

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- Add a preference (Tools → Settings) to use a temporary scratch notebook as the default landing page
- Fix bug where / and : weren't working in VIM mode
- Update gspread from 3.0 to 3.4
- Update the [Colab Marketplace VM image](#)

VariablesTerminal

10:06 PMT4 (Python 3)

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This share link expires in 1 week. For free permanent hosting and GPU upgrades, run `gradio d

SDXL Text-to-Image Generator

Enter a prompt to generate an image using Stable Diffusion XL

ClearSubmit

Generated Image

Flag

Use via API · Built with Gradio · Settings

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Loading pipeline components...: 100%

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Enter your prompt

Rainbow

Clear

Submit



Flag

SDXL Text-to-Image Generator

Enter a prompt to generate an image using Stable Diffusion XL

Enter your prompt

Macaw

Clear

Submit



Flag

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lphone 16 pro max

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Submit

