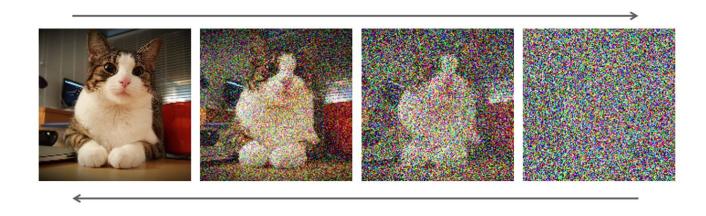
What is Stable Diffusion?

Discover the image generation model Stable Diffusion, to make Al art for your projects.

Diffusion Models

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Source: <u>Nvidia</u>

Stable Diffusion

- The only state of the art open-source model
- Collaboration between
 RunwayML & Stability AI
- Ability to train yourself with Dreambooth



Stable Diffusion Features

Negative prompts



CFG Scale



Dreambooth



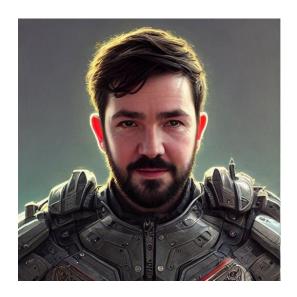
Technical Ability

- Offers lots of flexibility in the way you use it
- Needs a GPU and coding ability to run locally
- Possible to build a business around it

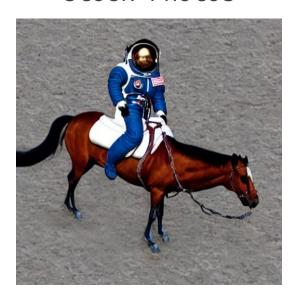
```
#@markdown Run to generate a grid of preview images from the last saved weigh
import os
import matplotlib.pyplot as plt
import matplotlib.image as mpimg
weights folder = OUTPUT DIR
folders = sorted([f for f in os.listdir(weights_folder) if f != "0"], key=lan
row = len(folders)
col = len(os.listdir(os.path.join(weights folder, folders[0], "samples")))
scale = 4
fig, axes = plt.subplots(row, col, figsize=(col*scale, row*scale), gridspec }
for i, folder in enumerate(folders):
    folder path = os.path.join(weights folder, folder)
   image folder = os.path.join(folder path, "samples")
   images = [f for f in os.listdir(image folder)]
   for j, image in enumerate(images):
        if row == 1:
           currAxes = axes[i]
       else:
            currAxes = axes[i, j]
        if i == 0:
            currAxes.set title(f"Image {j}")
            currAxes.text(-0.1, 0.5, folder, rotation=0, va='center', ha='center'
        image path = os.path.join(image folder, image)
        img = mpimg.imread(image path)
        currAxes.imshow(img, cmap='gray')
        currAxes.axis('off')
```

Stable Diffusion Use Cases

Profile Pictures



Stock Photos



Product Placement

