Name: Joseph Delgadillo
Trinh Pham
Zhen Rui Ng

Stable Diffusion

Stable diffusion is a deep learning model that generates images and artworks based on input media. When given a prompt, stable diffusion will generate an image based on the prompt description given. Stable diffusion method works by implementing images with a series of steps, and in each step, the algorithm calculates diffusion coefficients.

Stable diffusion begins when a user inputs a text prompt that describes what they want to imply to a certain image, the model then crafts the image to their liking. The more descriptive the prompt, the better the model is able to generate a precise output.

Animal:

<table>
<tr>
<td rowspan="2">Original image:
  </td>
<td>Inpaint
Prompt: “a dog with a bow”
  </td>
<td>Inpaint background prompt: “beachy sandy background”
  </td>
</tr>
<tr>
<td>Inpaint sketch prompt: “dog with white fur”</td>
<td>Inpaint prompt: “Golden retriever dog”</td>
</tr>
</table>

		

Portrait

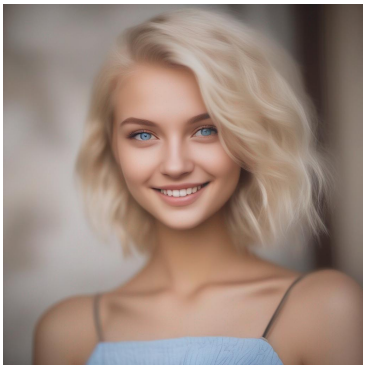	Text to image prompt: A 20 year old Ukrainian girl with bllue eyes, blonde hair.

	Image to image prompt: Blue, Green, Pink, Blonde hair.

Nature

	Prompt: Beach with waves at the background and sunset

	Prompt: Grass beach
	Prompt: Pink Beach Denoising strength = 1 Denoising strength is how creative we want the model to be.