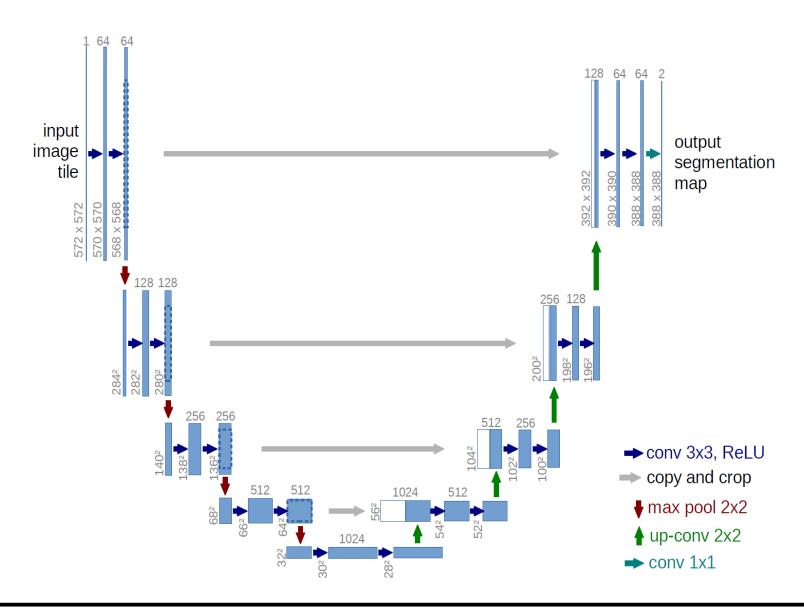
Diffusers

Diffusion Models

Diffusion models are generative models that learn to generate data by reversing a gradual noising process. It has gained popularity for its ability to generate high-quality images and other types of data.

□Diffusion Model consists of a **forward process** (or **diffusion process**), in which a datum (generally an image) is progressively noised, and a **reverse process** (or **reverse diffusion process**), in which noise is transformed back into a sample from the target distribution.

Architecture of U-Net



https://www.assemblyai.com/blog/diffusion-models-for-machine-learning-introduction/

Applications

•Image Generation: Creating high-quality images from noise.

- •Text-to-Image Generation: Generating images based on textual descriptions.
- •Audio Synthesis: Producing audio signals from noise, potentially used in speech synthesis and music generation.

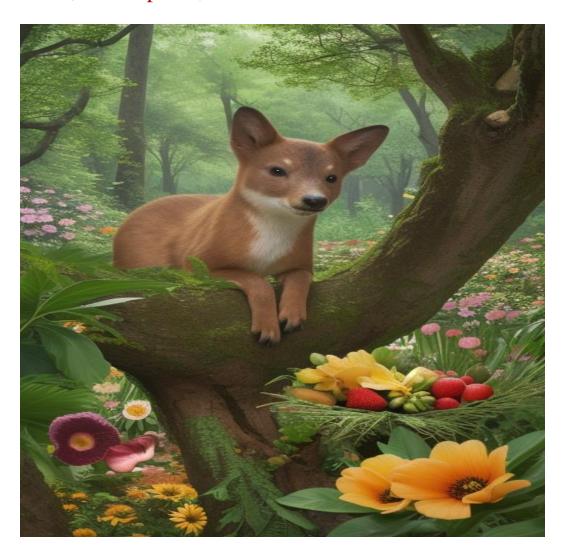
Stable diffusion text to image anime style

prompt = " forest, flowers, fruits, landscape, 8k,
masterpiece, ultradetailed"



Pretrained Model - redstonehero / cetusmix v4

prompt = " forest, flowers, fruits, animal, landscape,
8k, masterpiece, ultradetailed"



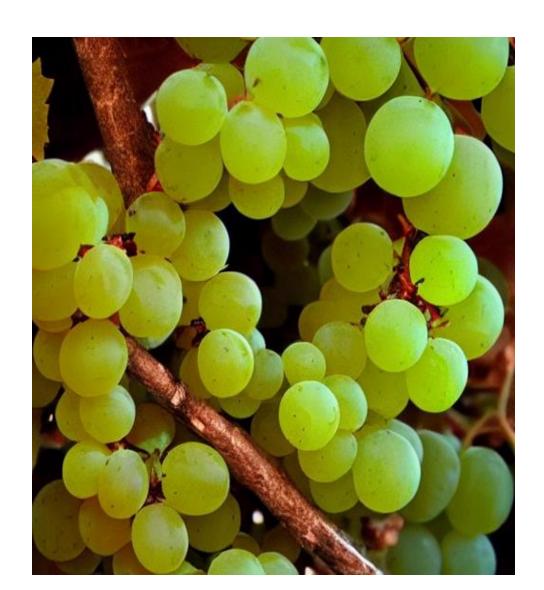
Pretrained Model - majicMIX realistic v6

prompt = "green grapes, 8k,
masterpiece, ultradetailed"



Pretrained Model - <u>majicMIX_realistic_v6</u>

prompt = " Green Shine Muscat Grapes"



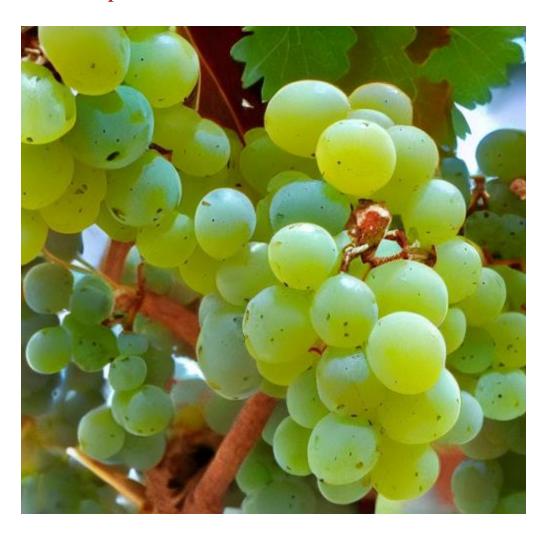
Pretrained Model - <u>majicMIX realistic v6</u>

prompt = " Green Shine Muscat Grapes,
8k, masterpiece, ultradetailed"



Pretrained Model - <u>majicMIX realistic v6</u>

prompt = " Green Shine Muscat Grapes, 8k,
masterpiece, ultradetailed"



Pretrained Model - majicMIX realistic v6