

a <A female cyborg> style dog



Python编程与人工智能实践

应用篇: Al绘图 私炉模式 (textual inversion, 文本反演)

a <Marc_Allante> style dog

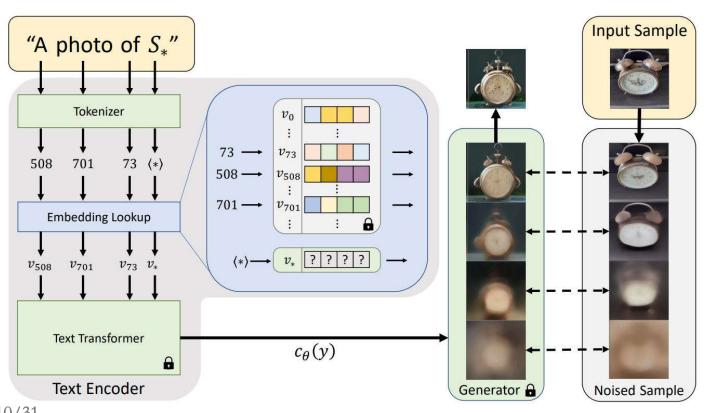


于泓 鲁东大学 信息与电气工程学院 2022.10.30



私炉模式

利用3-5张风格图像进行训练,将风格转换为一个词向量



训练过程较慢



https://cyberes.github.io/stable-diffusion-textual-inversion-models/

3d-female-cyborgs

Download 3d-female-cyborgs.pt

View Repository







Download 852style-girl.pt

View Repository







一些训练好的 词向量

a < A female cyborg > style dog

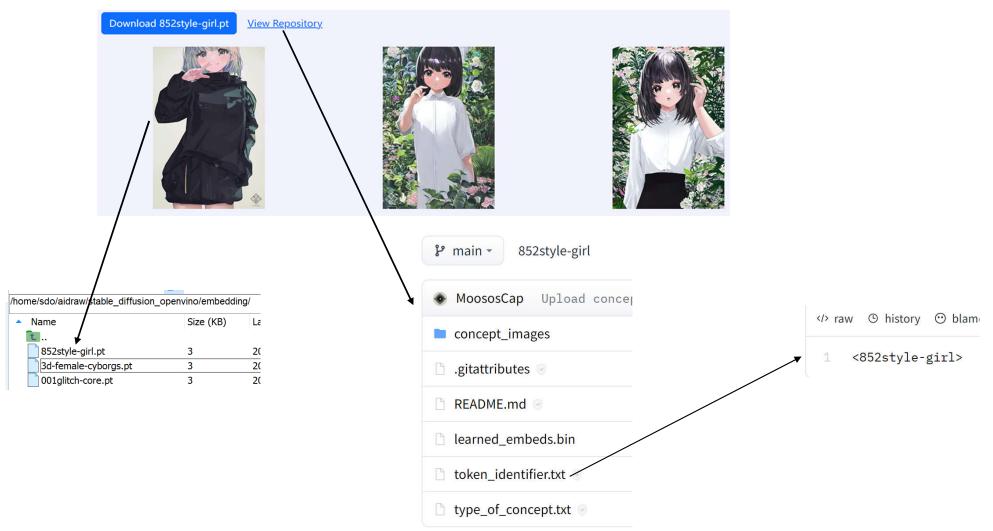


" <852style-girl> style dog"



2022/10/31



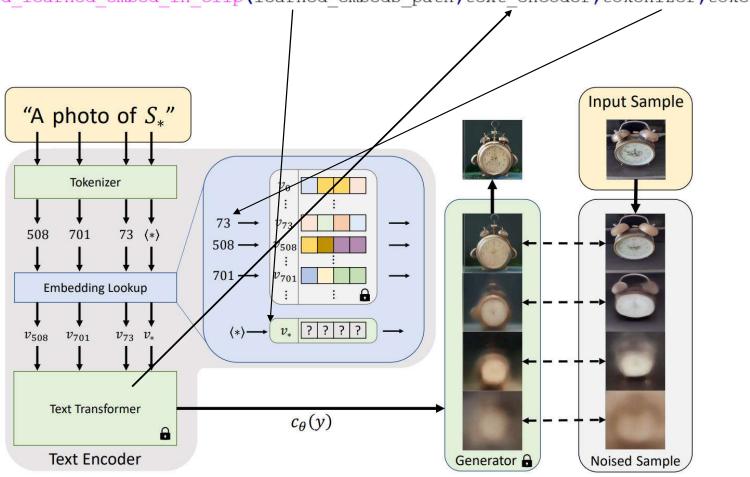




```
def load learned embed in clip(learned embeds path, text encoder, tokenizer, token=None):
loaded learned embeds = torch.load(learned embeds path, map location="cpu")
# separate token and the embeds
trained token = list(loaded learned embeds.keys())[0]
embeds = loaded learned embeds[trained token]
# cast to dtype of text encode
dtype = text encoder.get input embeddings().weight.dtype
# embeds.to(dtype)
# add the token in tokenizer
token = token if token is not None else trained token
num added tokens = tokenizer.add tokens(token)
i = 1
while (num added tokens == 0):
    print(f"The tokenizer already contains the token {token}.")
    token = f''\{token[:-1]\}-\{i\}>"
    print(f"Attempting to add the token {token}.")
    num added tokens = tokenizer.add tokens(token)
    i+=1
# resize the token embeddings
text encoder.resize token embeddings (len (tokenizer))
# get the id for the token and assign the embeds
token id=tokenizer.convert tokens to ids(token)
text encoder.get input embeddings().weight.data[token id]=embeds
return token
   2022/10/31
```



def load_learned_embed_in_clip(learned_embeds_path,text_encoder,tokenizer,token=None):





多风格组合

```
prompt = " a <852style-girl> style <bonzi>"
```



Download 852style-girl.pt

View Repository











ponzi-monkey

Download bonzi-monkey.pt

View Repository















私炉特征组合

"a <852style-girl> style <aflac duck>"



