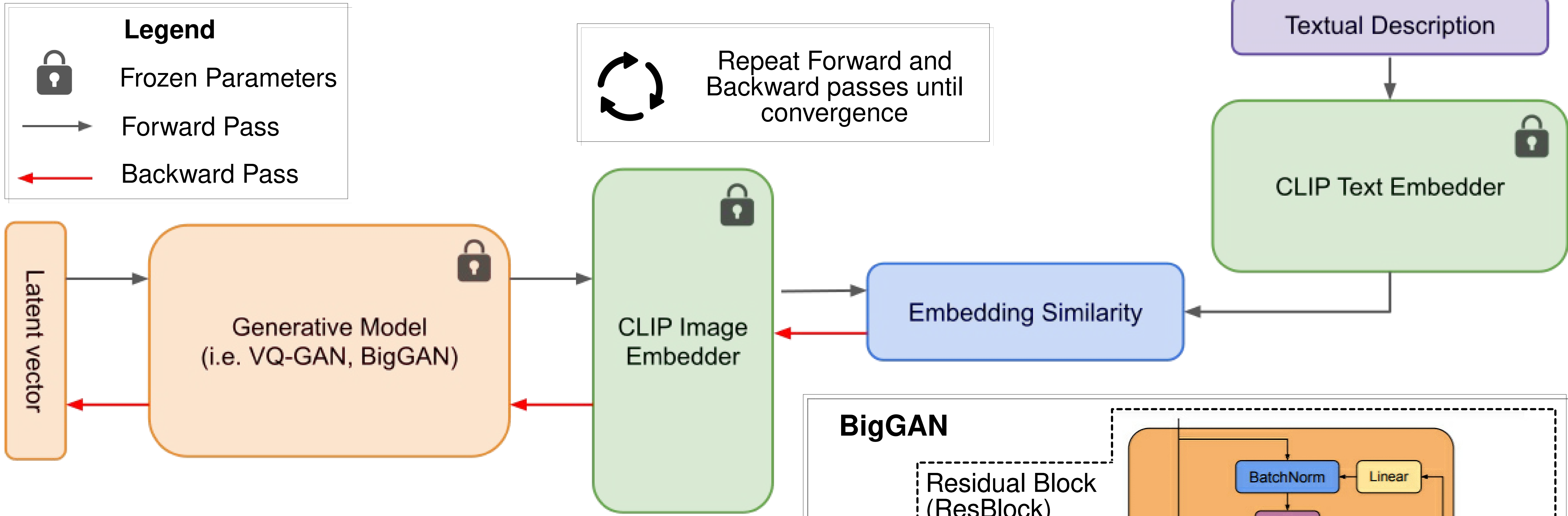


# Text-to-Image Generation

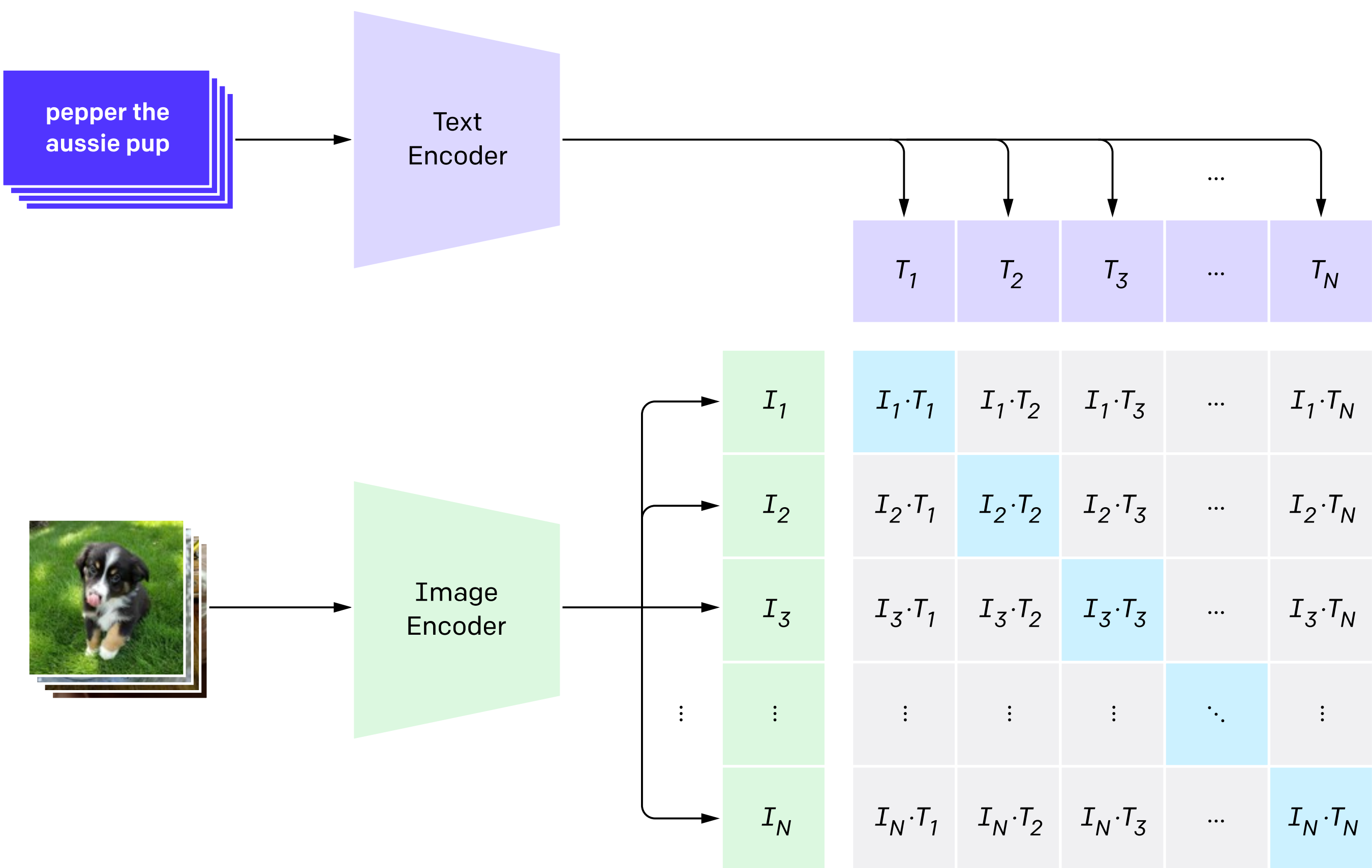
## Synthesizing Images from Textual Descriptions

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### CLIP: Connecting Text and Images

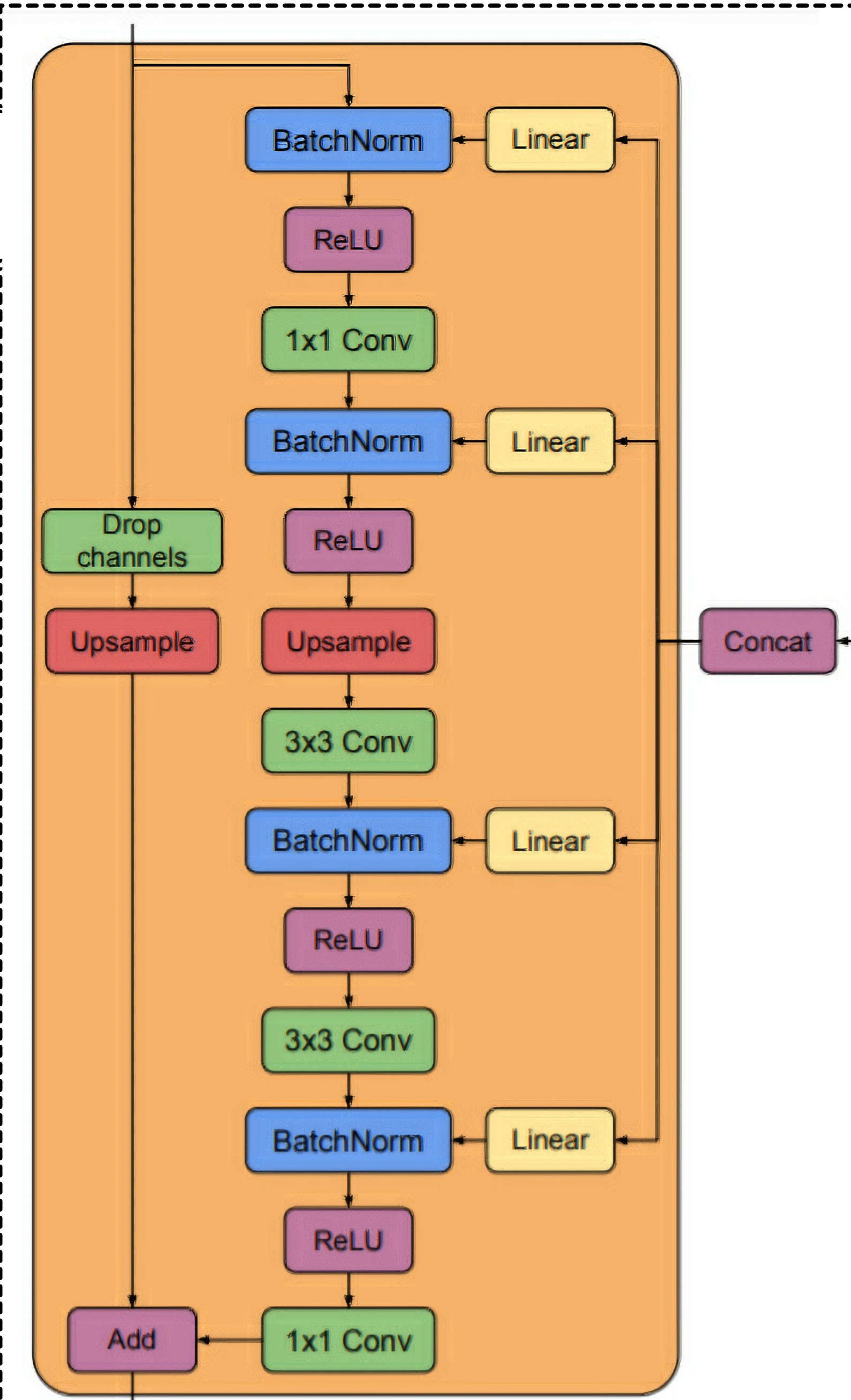
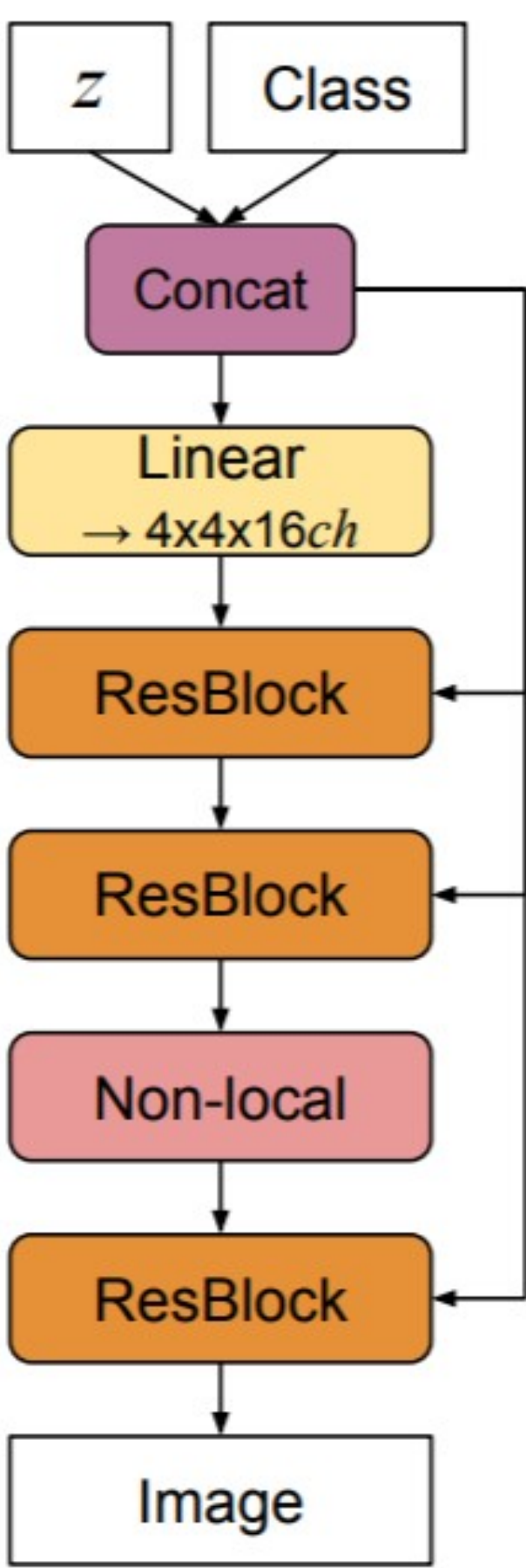
#### 1. Contrastive pre-training



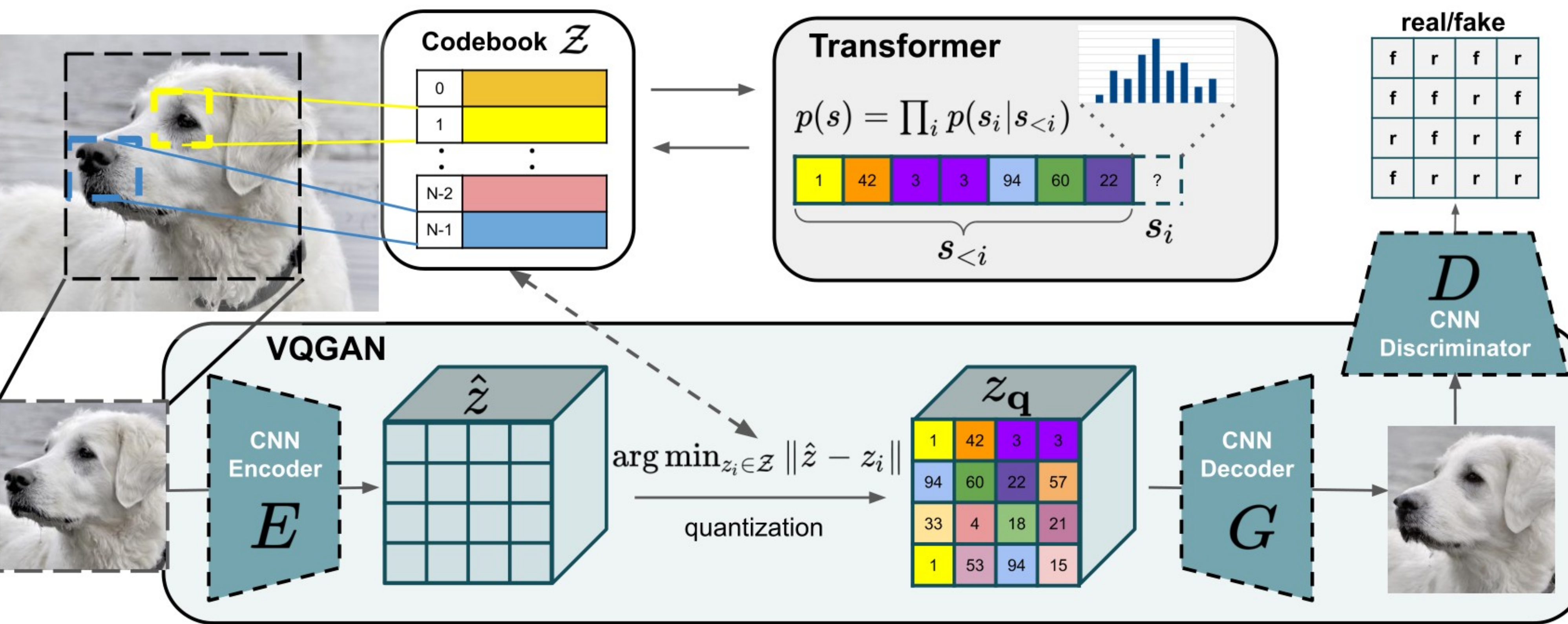
### BigGAN

#### Residual Block (ResBlock)

#### Architecture

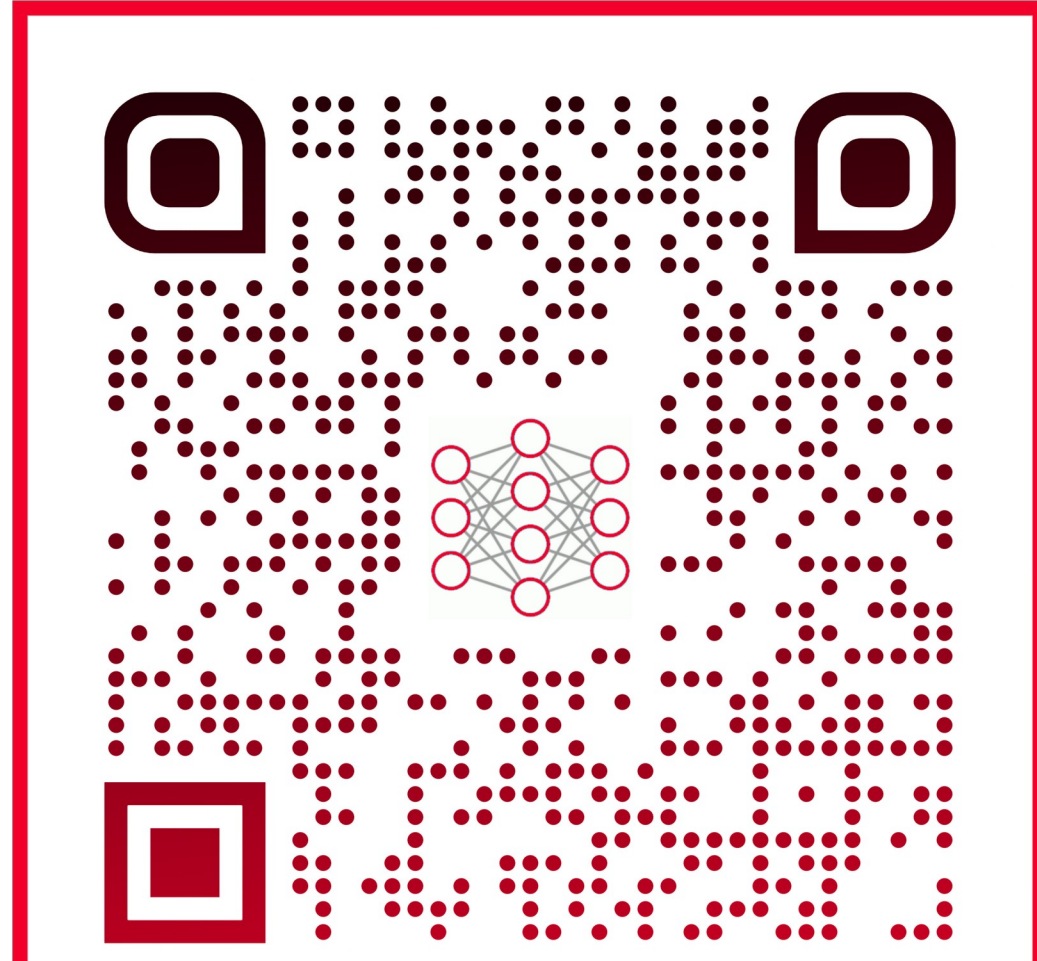


### VQ-GAN: Vector Quantized Generative Adversarial Network



### Generated Samples for Model Comparison

- 1: A photo of a flying penguin
- 2: A photo of a gold garden spider hanging on web
- 3: A photo of a dog with a cigarette
- 4: A photo of a blue bird with big beak
- 5: A photo of a lemon with hair and face
- 6: A photo of a polar bear under the blue sky



Try it yourself!

