Training Report

0. Experiment Information

Name	gru_example
Reader	mnist_mixed_dataset
Text Architecture	gru_seq2seq_bidirectional_enc
Image Architecture	convolutional_image_autoencoder_depth_3
Tokenizer Path	../../models/example/tokenizer.pkl
Dataset Length	10000
Image Size	56
Input Channels	1
Latent Dim	30
Embedding Dim	64
Hidden Dim	64
Context Length	10
Batch Size	32
Epochs	30
Trainer	MixedAdaptativennealingTrainer
Training Method	modified
Weights.Text Model Loss	10
Weights.Image Model Loss	1000
Weights.Text Kd Loss	1
Weights.Image Kd Loss	1
Weights.Align Loss	100
K	0.0030
X0	1000
Results Dir	../../experiments/gru_example
Checkpoint Dir	../../models/gru_example
Checkpoint Steps	3000
Evaluators	MixedMNISTEvaluator, MixedPerplexityEvaluator

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1. Training

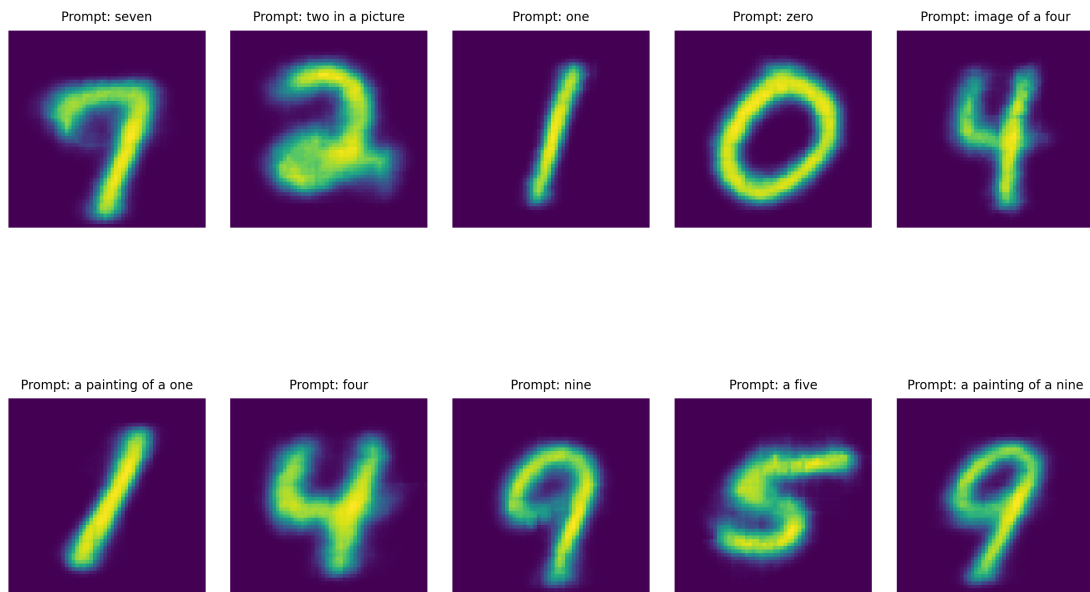## 1.1 Training Metrics Chart

1.2 Training Time

Total training time: 307.57079005241394 seconds

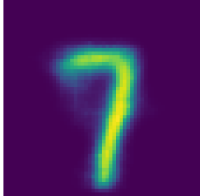Formatted duration: 0:05:07 (hh:mm:ss)

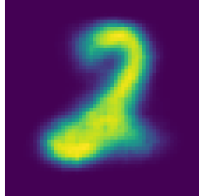# Training Report

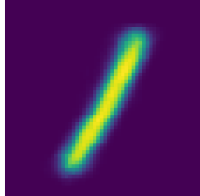## 2. Generated Images

Images Generated from Text

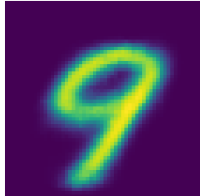| Prompt: seven	Prompt: two in a picture	Prompt: one	Prompt: zero	Prompt: image of a four

Prompt: a painting of a one	Prompt: four	Prompt: nine	Prompt: a five	Prompt: a painting of a nine

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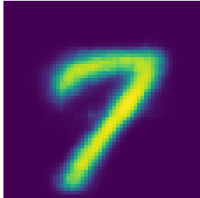| Prompt: image of a seven | Prompt: a photo of a two | Prompt: a painting of a one | Prompt: image of a zero | Prompt: a painting of a four |
| Prompt: a painting of a one | Prompt: a four | Prompt: a nine | Prompt: a painting of a five | Prompt: a painting of a nine |
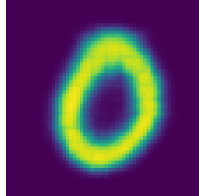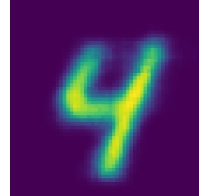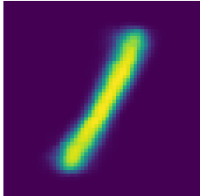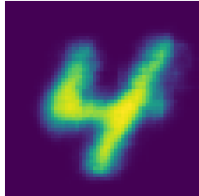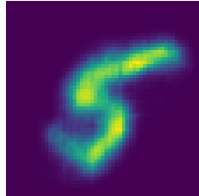
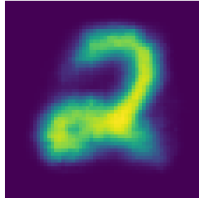# Training Report

Prompt: a seven

Prompt: two in a picture
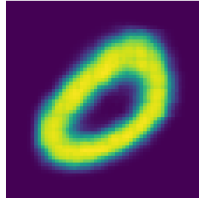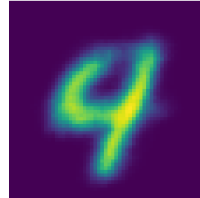
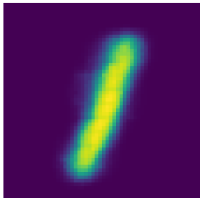Prompt: one in a picture

Prompt: a photo of a zero

Prompt: a four

Prompt: one

Prompt: a photo of a four

Prompt: nine

Prompt: five in a picture
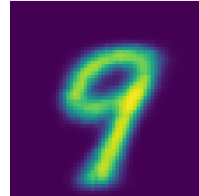
Prompt: image of a nine
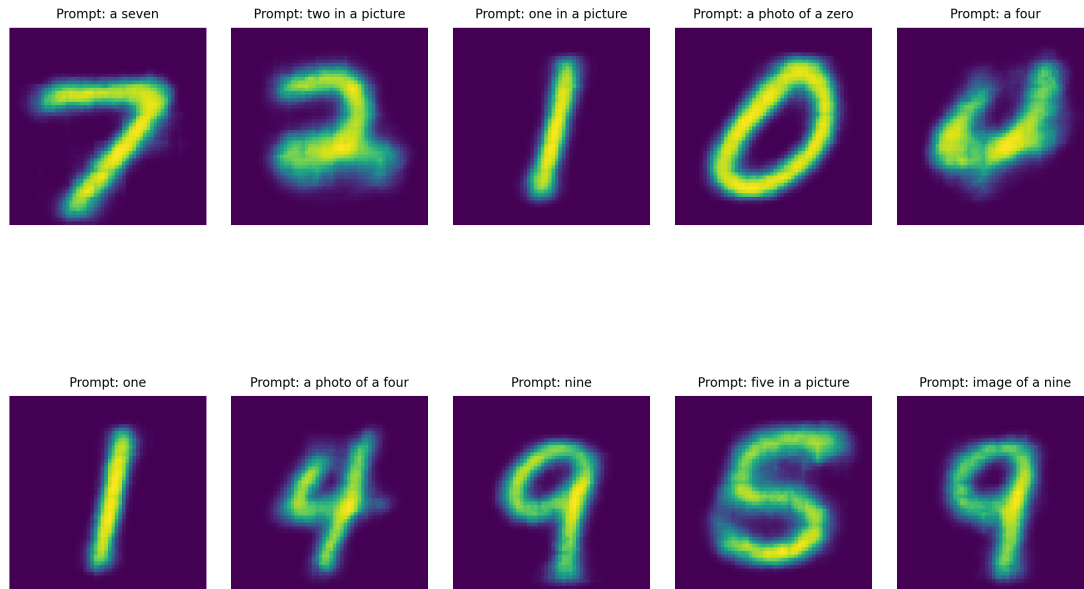
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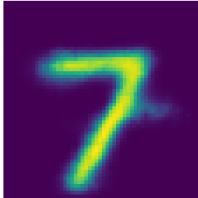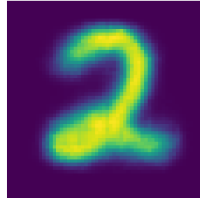
| Prompt: a photo of a seven | Prompt: two | Prompt: image of a one | Prompt: zero | Prompt: a photo of a four |
| Prompt: a one | Prompt: a painting of a four | Prompt: a photo of a nine | Prompt: five | Prompt: nine |
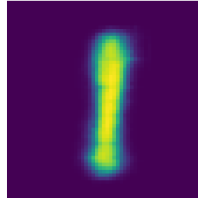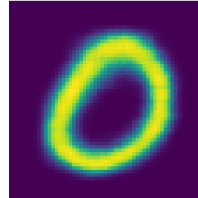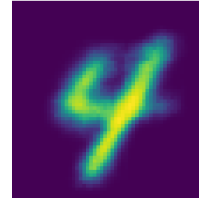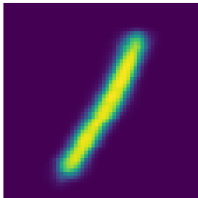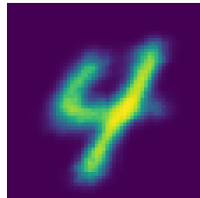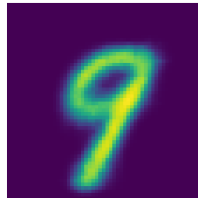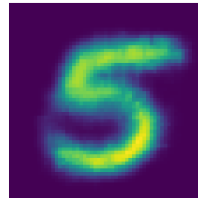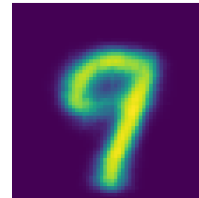
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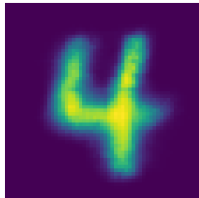Prompt: a seven   Prompt: a two   Prompt: one in a picture   Prompt: a photo of a zero   Prompt: a photo of a four
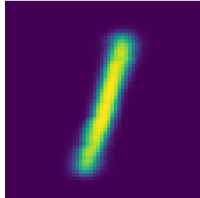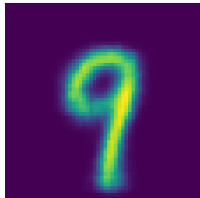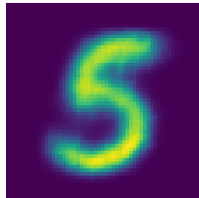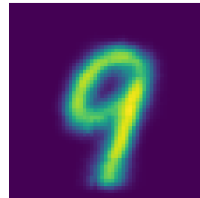
Prompt: a photo of a one   Prompt: image of a four   Prompt: image of a nine   Prompt: five   Prompt: a painting of a nine
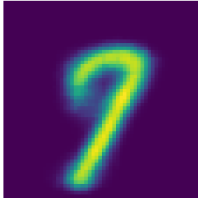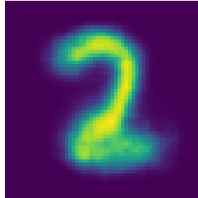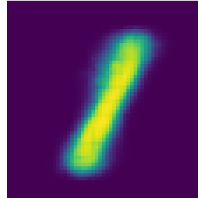
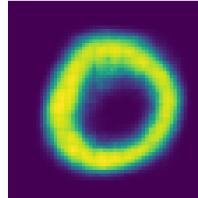# Training Report

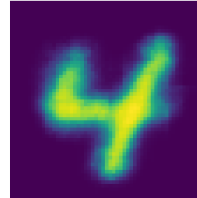
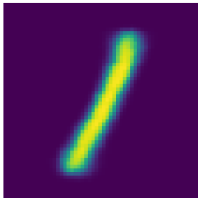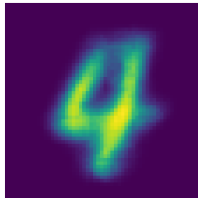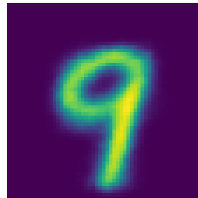Prompt: a photo of a seven | Prompt: image of a two | Prompt: a photo of a one | Prompt: zero in a picture | Prompt: a four
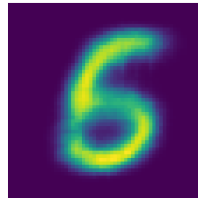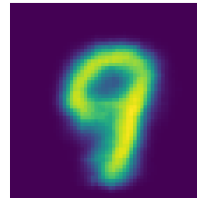
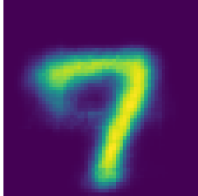Prompt: a one | Prompt: a photo of a four | Prompt: nine | Prompt: five | Prompt: nine
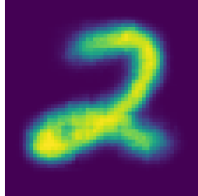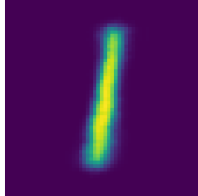
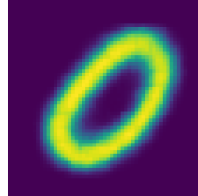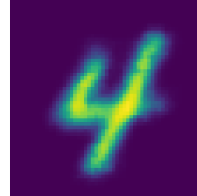# Training Report

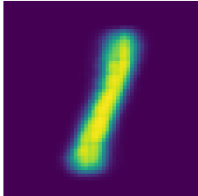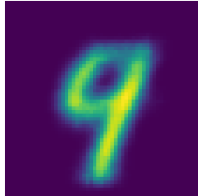Prompt: seven in a picture | Prompt: a two | Prompt: one in a picture | Prompt: a photo of a zero | Prompt: a painting of a four
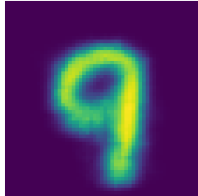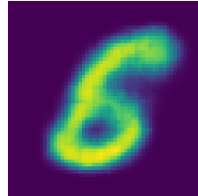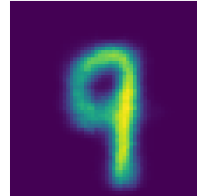
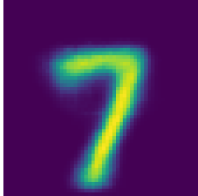Prompt: a painting of a one | Prompt: a photo of a four | Prompt: nine | Prompt: a five | Prompt: image of a nine
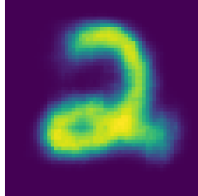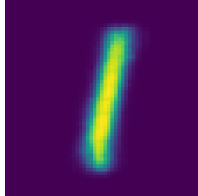
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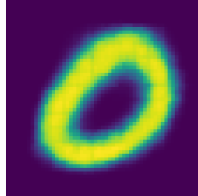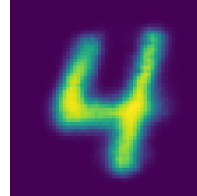
Prompt: a photo of a seven

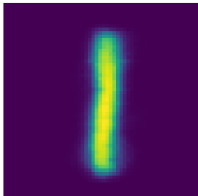Prompt: two in a picture

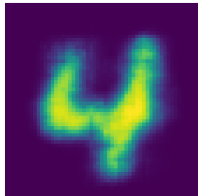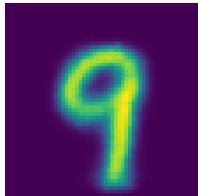Prompt: image of a one

Prompt: a zero
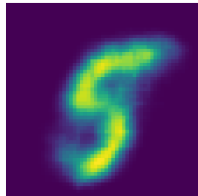
Prompt: four

Prompt: image of a one

Prompt: four

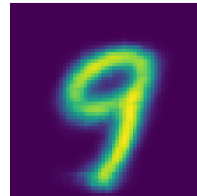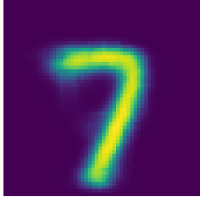Prompt: image of a nine
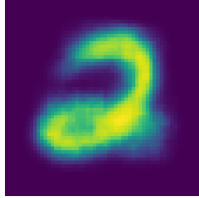
Prompt: a photo of a five

Prompt: nine

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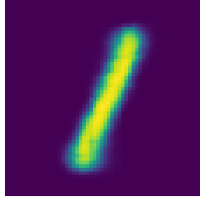Prompt: image of a seven | Prompt: a two | Prompt: a one | Prompt: zero | Prompt: a four
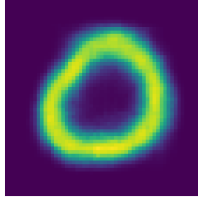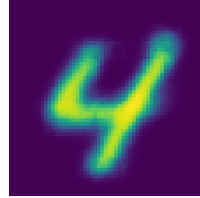
Prompt: image of a one | Prompt: image of a four | Prompt: a photo of a nine | Prompt: five in a picture | Prompt: image of a nine
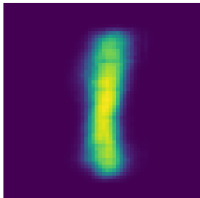
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Prompt: a painting of a seven | Prompt: a two | Prompt: a photo of a one | Prompt: image of a zero | Prompt: image of a four

Prompt: image of a one | Prompt: a painting of a four | Prompt: image of a nine | Prompt: a five | Prompt: a painting of a nine

Interpolation

Original 1 | α=0.11 | α=0.22 | α=0.33 | α=0.44 | α=0.56 | α=0.67 | α=0.78 | α=0.89 | Original 2
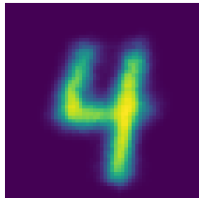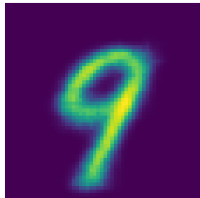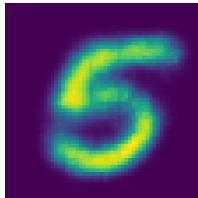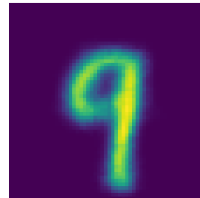
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3. Evaluation Results

Results: eval_mixed_perplexity

Image To Text Perplexity	272.9829
Text To Image Perplexity	239.6530
Original Text Perplexity	272.1802

Results: eval_mnist_accuracy

Image To Text Accuracy	0.8453
Image To Text Accuracy	0.8851
Image To Text Accuracy	0.9111
Text To Image Accuracy	0.7393
Text To Image Accuracy	0.8542
Text To Image Accuracy	0.9037
Top3	