This Place Does Exist

Stylegan 3 Snapshots

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Introduction

This document is part of *This Place Does Exist*. In this project a StyleGAN3 network was trained on a series of just over 3000 photos of shopfronts in Paris. This document provides an overview of all networks that were trained, including their intermediary snapshots. For every snapshot of the network a series of preview images is provided.

Some of our observations:

- Right of the start it proved important to pick the right network. For example run 00002 contained rotated images because it used the *stylegan3-t* (translation equivalent) instead of *stylegan3-r* (translation and rotation equivalent) configuration.
- The first runs were trained using a conditional dataset, in which the arrondissement was encoded. However, we got the impression that the training without an arrondissement condition lead to more diverse images.
- On some occasions a 'mode collapse' occurs, which means that the generator start producing only a limited variety of images. This effect is particularly visible in run 00001 and 00025 in which the generated images suddenly become indistinguishable blurbs. However, in some extend this is also visible in other networks, which shift from rather saturated images to generating images in which have more washed out sepia colours. This can be seen quite clearly in run 00002, 00004, or 00010. This most likely occurs due to the dominance of Paris' Haussmannian architecture that frames the shop fronts, and which is visible in a large number of the training images.
- In order to overcome this, we tried cropping the images to about 70% of their original size. For a large part this removed the Haussmannian limestone from the images, indeed leading to generated images that were richer in colour.
- When generating larger images, 1024x1024 pixels instead of 256x256, different training parameters were needed. Over the course of the project we were unable to have the large images match the quality of the smaller images.

In order to make sense of the first graph in this document, which shows the FID, or Fréchet Inception distance, it might be good to have a sense of what this metric means:

> The Inception Score (IS) is an algorithm used to assess the quality of images created by a generative image model such as a generative adversarial network (GAN). The score is calculated based on the output of a separate, pretrained Inceptionv3 image classification model applied to a sample of (typically around 30,000) images generated by the generative model. The Inception Score is maximized when the following conditions are true:
>
> 1. The entropy of the distribution of labels predicted by the Inceptionv3 model for the generated images is minimized. In other words, the classification model confidently predicts a single label for each image. Intuitively, this corresponds to the desideratum of generated images being "sharp" or "distinct".
> 2. The predictions of the classification model are evenly distributed across all possible labels. This corresponds to the desideratum that the output of the generative model is "diverse".
>
> It has been somewhat superseded by the related Fréchet inception distance. While the Inception Score only evaluates the distribution of generated images, the FID compares the distribution of generated images with the distribution of a set of real images ("ground truth").

(from: Wikipedia, Inception Score)

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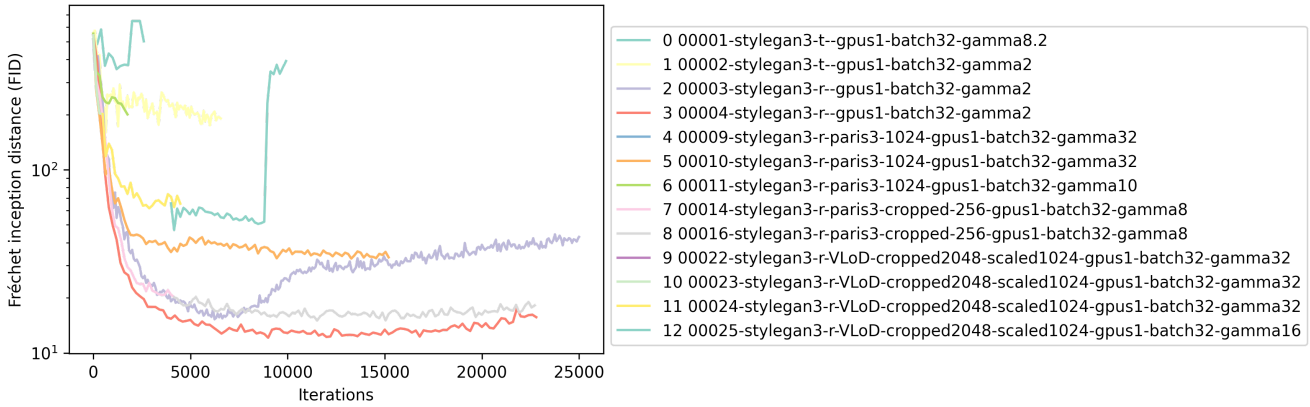

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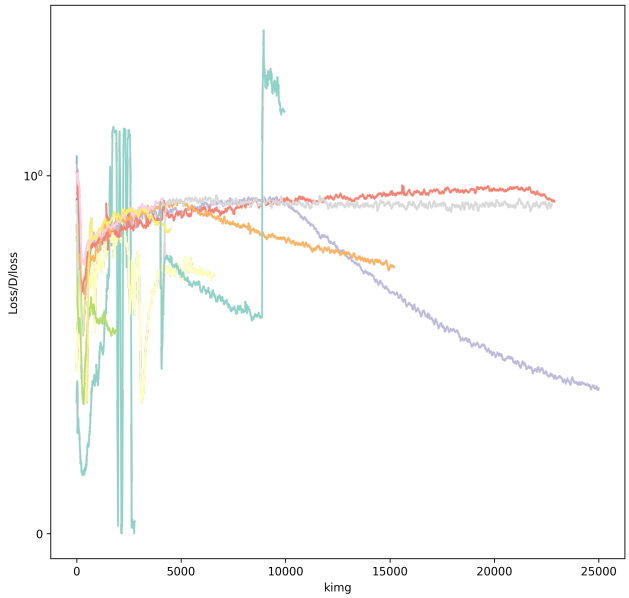
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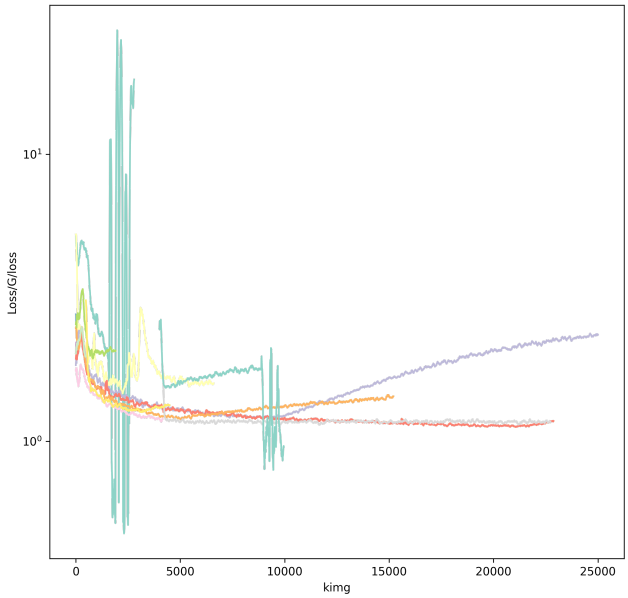
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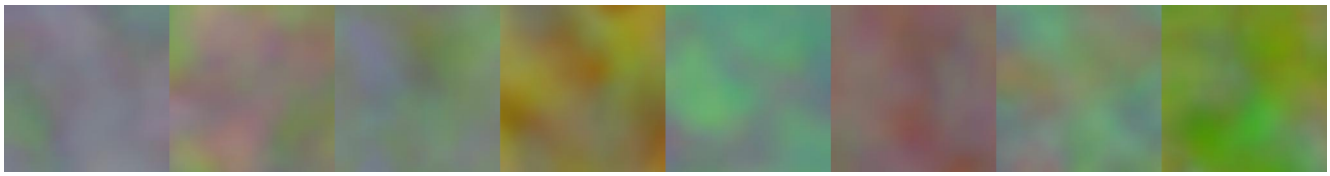

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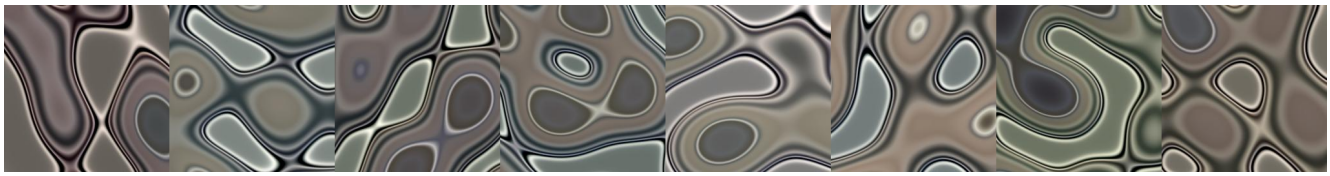

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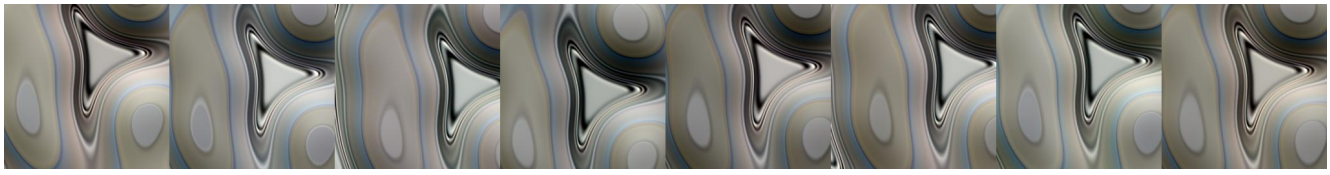

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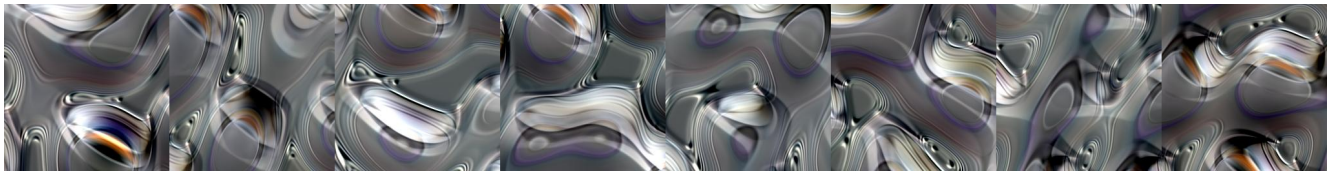

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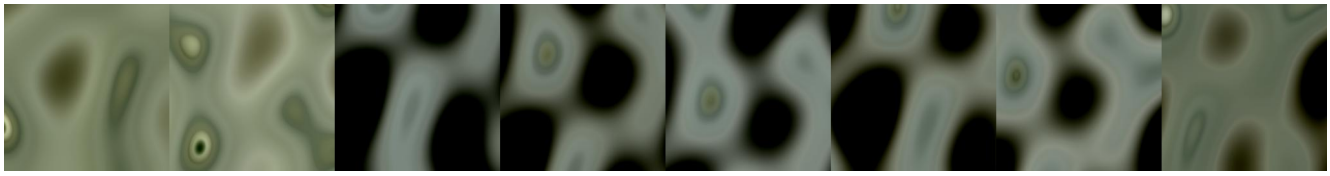

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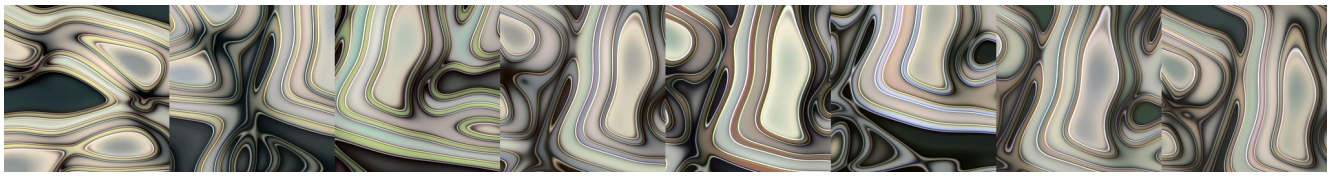

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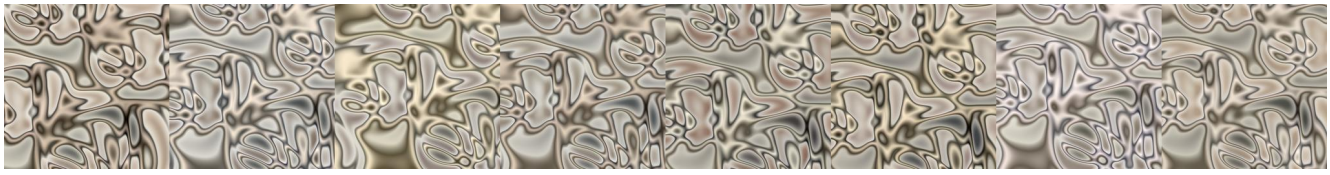

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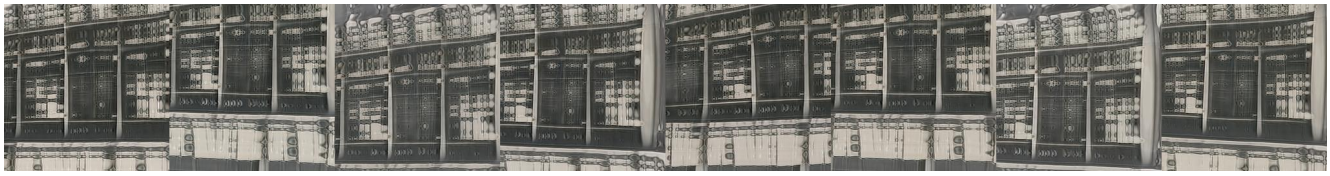

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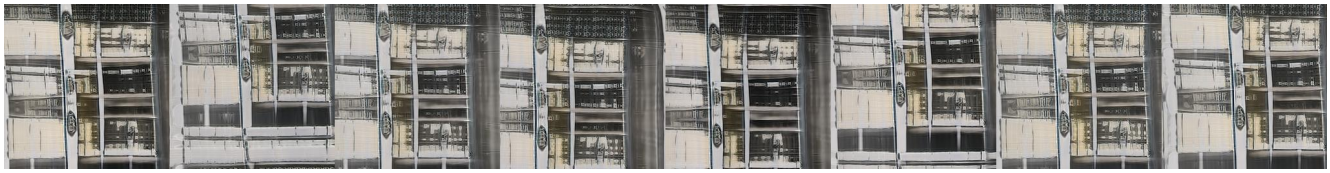

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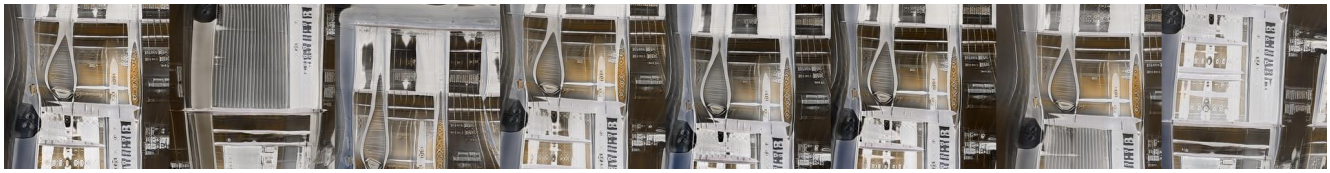

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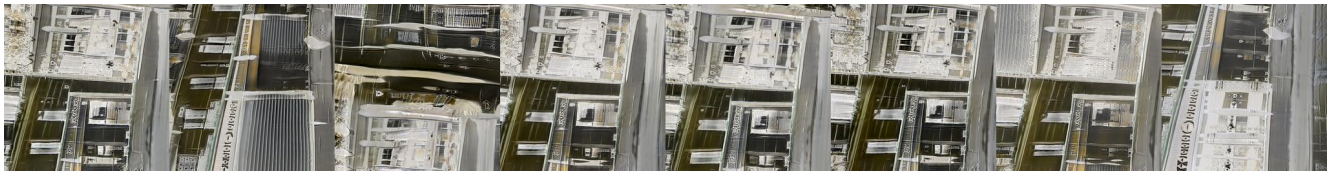

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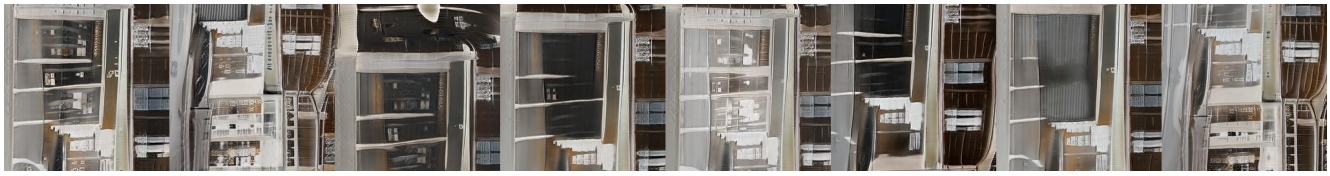

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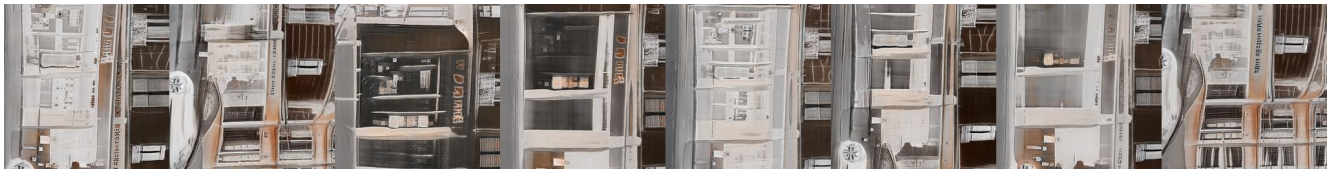

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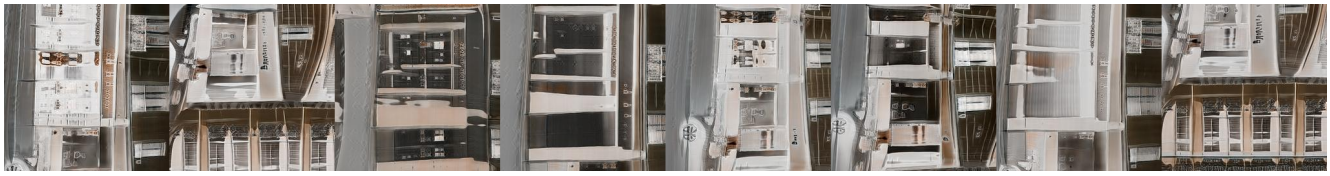

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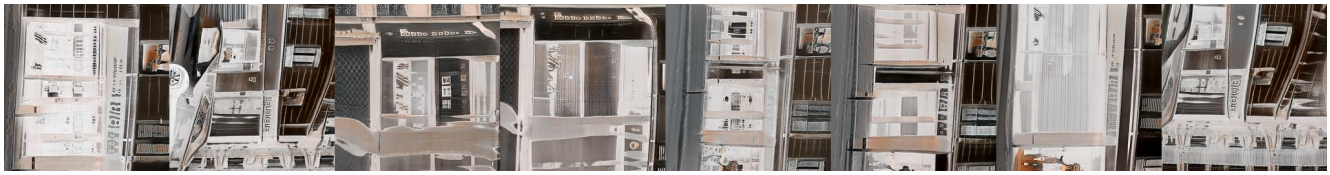

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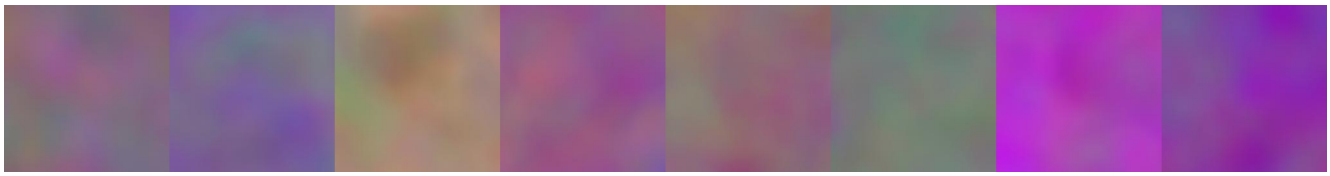

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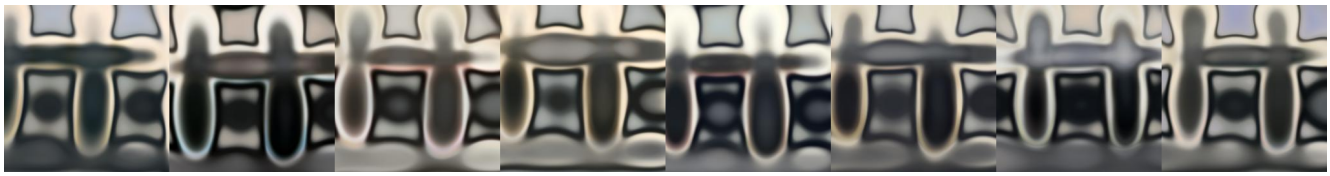

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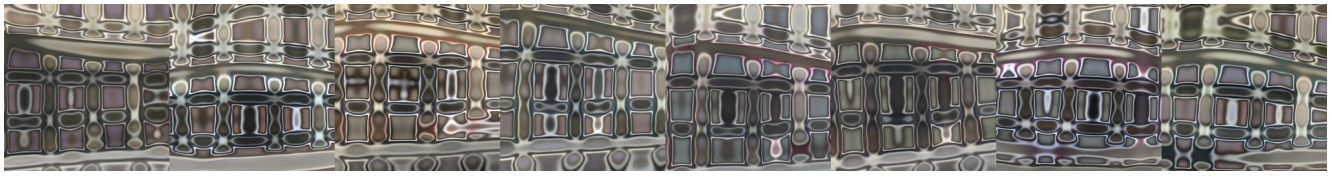

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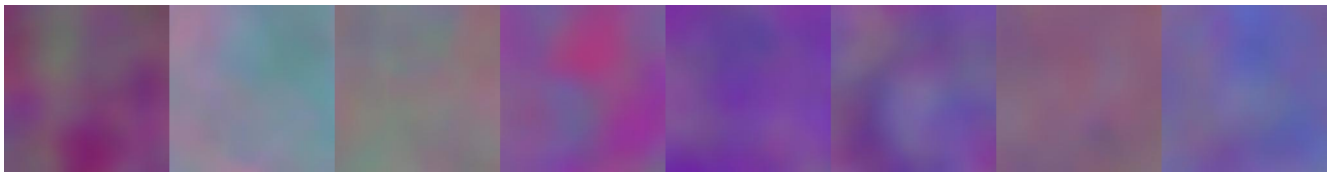

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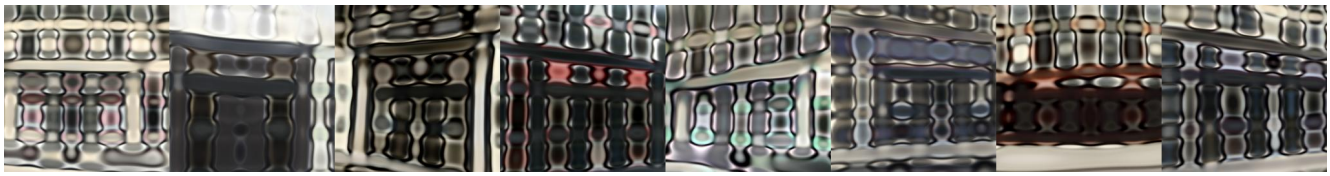

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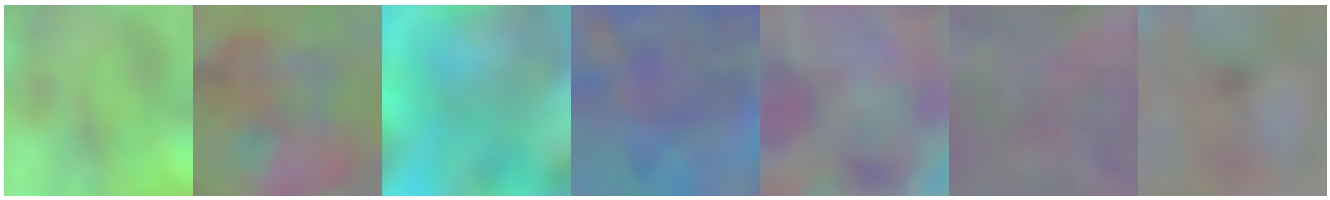

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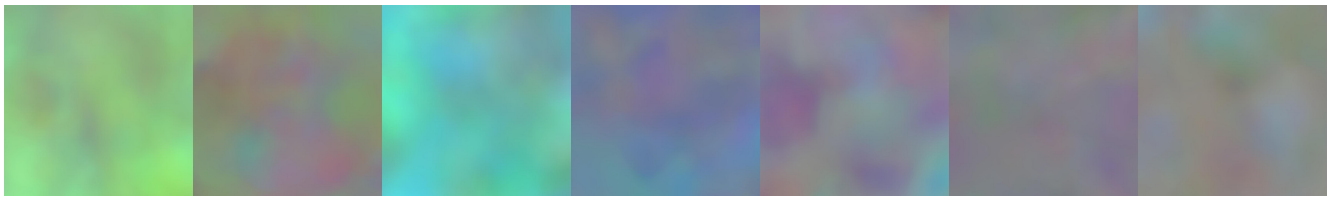

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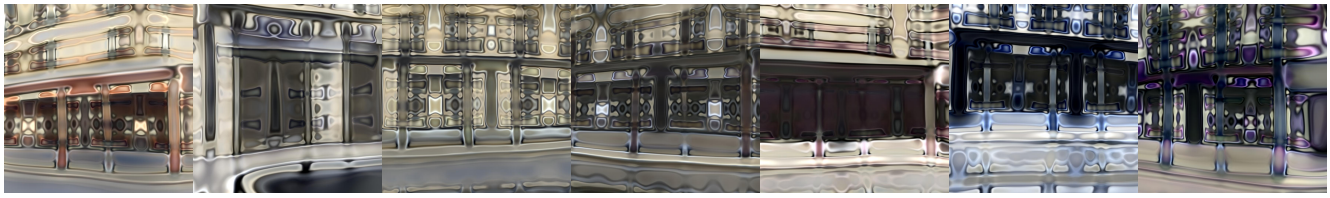

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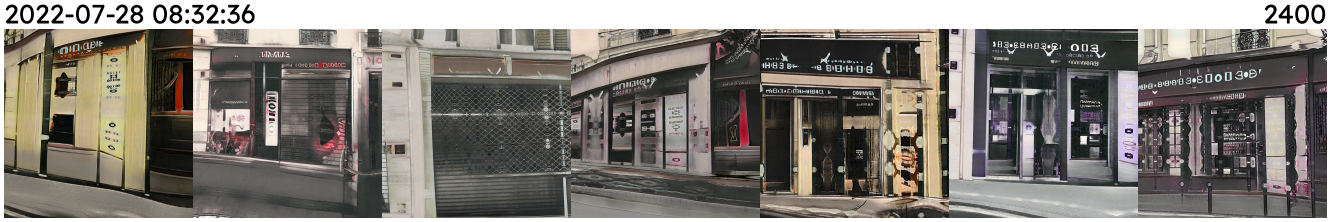

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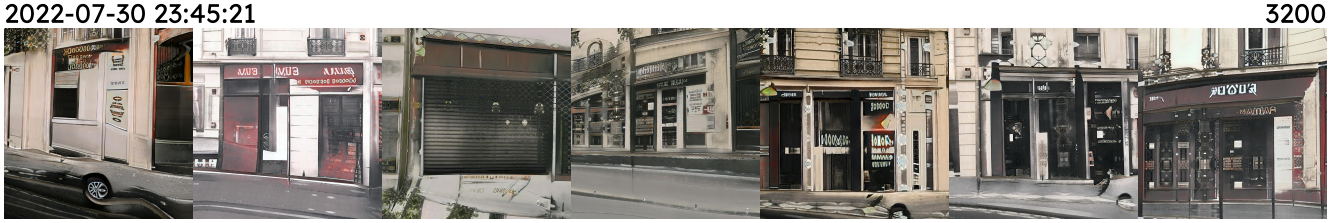

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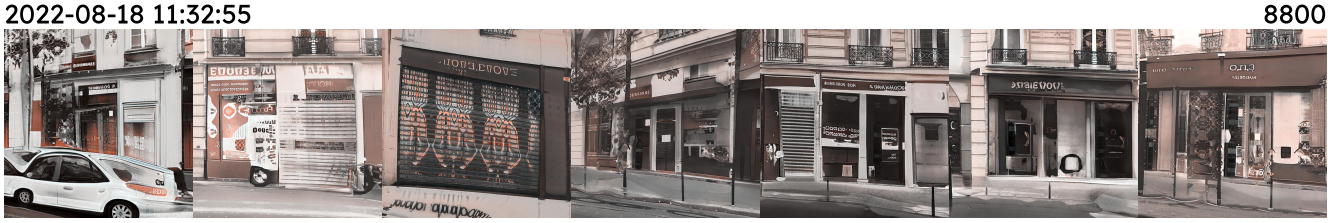

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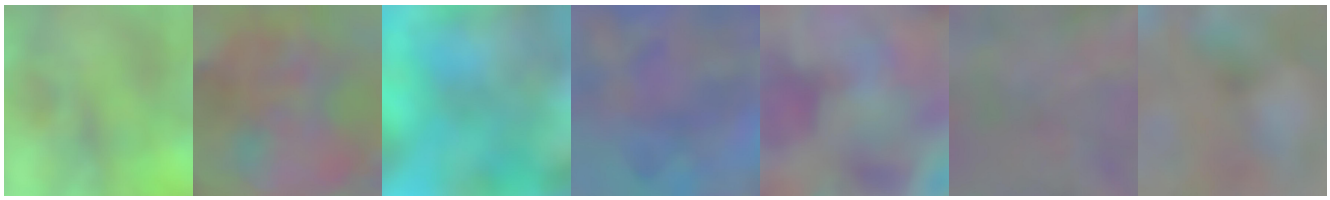

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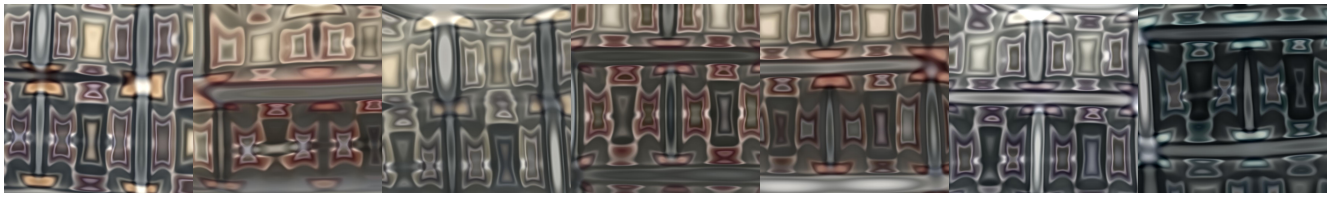

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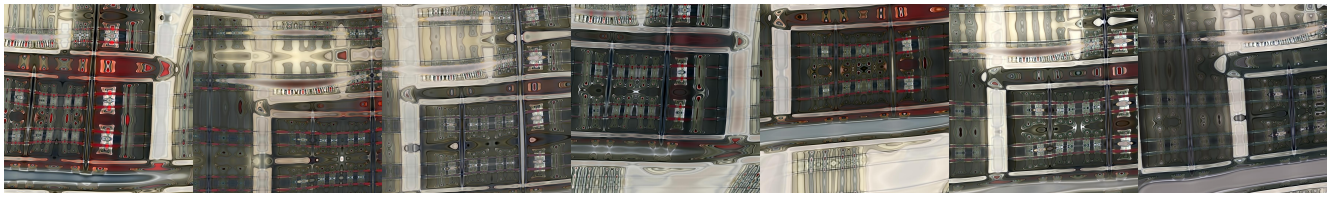

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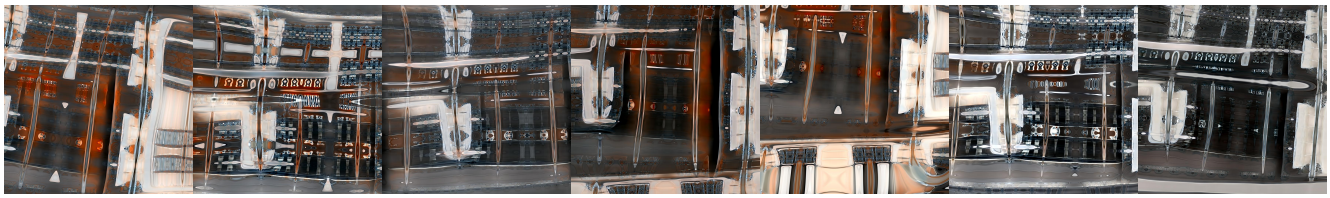

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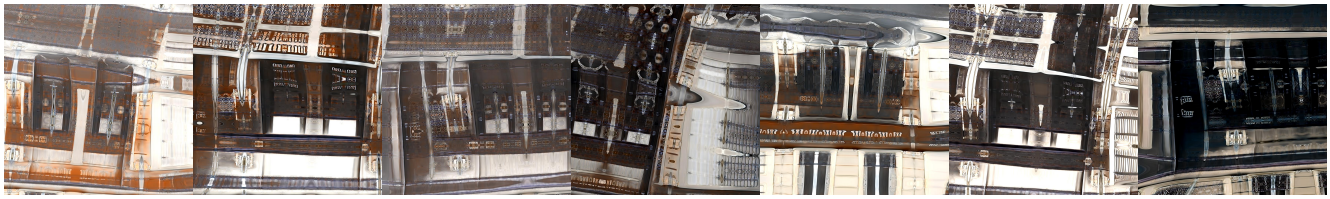
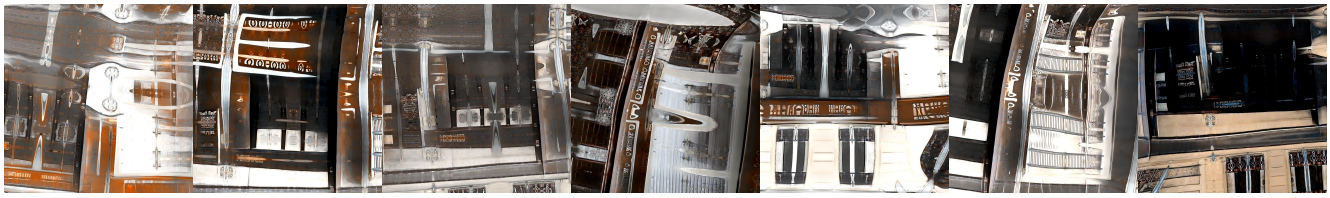


2022-09-13 08:52:22 1440



2022-09-13 21:30:26 1600

00014

00014-stylegan3-r-paris3-cropped-256-gpus1-batch32-gamma8

dataset
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conditional_dataset
: False
resolution
: 256
r1 gamma
: 8.0
duration
: 2 days, 20:08:22
latest_snapshots
: 4160
finished at
: 2022-11-14 11:19:54
last_fid
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2022-11-11 17:48:45 160

2022-11-11 20:25:53 320

2022-11-11 23:03:04 480

2022-11-12 01:40:15 640

2022-11-12 04:17:23 800

2022-11-12 06:54:32 960

2022-11-12 09:31:41 1120

2022-11-12 12:08:55 1280

2022-11-12 14:46:10 1440

2022-11-12 17:23:28 1600

2022-11-12 20:00:45 1760

2022-11-12 22:38:00 1920

2022-11-13 01:15:13 2080

2022-11-13 03:52:26 2240

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2022-11-13 11:44:09 2720

2022-11-13 14:21:30 2880

2022-11-13 16:58:48 3040

2022-11-13 19:36:10 3200

2022-11-13 22:13:27 3360

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2022-11-14 03:28:00 3680

2022-11-14 06:05:15 3840

2022-11-14 08:42:28 4000

2022-11-14 11:19:54 4160

00016

00016-stylegan3-r-paris3-cropped-256-gpus1-batch32-gamma8

dataset
: paris3-cropped-256
conditional_dataset
: False
resolution
: 256
r1 gamma
: 8.0
duration
: 12 days, 16:48:33
latest_snapshots
: 18560
finished at
: 2022-11-30 12:23:11
last_fid
: 18.183777205809513
resumed_from
: 00014-stylegan3-r-paris3-cropped-256-gpus1-batch32-gamma8 004160

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2022-11-17 22:12:12 160

2022-11-18 00:49:47 320

2022-11-18 03:27:21 480

2022-11-18 06:04:54 640

2022-11-18 08:42:25 800

2022-11-18 11:19:59 960

2022-11-18 13:57:33 1120

2022-11-18 16:35:11 1280

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2022-11-18 21:50:30 1600

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2022-11-19 08:20:34 2240

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2022-11-19 18:49:39 2880

2022-11-19 21:26:55 3040

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2022-11-22 17:38:13 7200

2022-11-22 20:15:48 7360

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2022-11-23 01:30:50 7680

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2022-11-23 09:23:03 8160

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2022-11-23 19:53:10 8800

2022-11-23 22:30:44 8960

2022-11-24 01:08:16 9120

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2022-11-30 04:31:15 18080

2022-11-30 07:08:32 18240

2022-11-30 09:45:52 18400

2022-11-30 12:23:11 18560

00022

00022-stylegan3-r-VLoD-cropped2048-scaled1024-gpus1-batch32-gamma32

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conditional_dataset
: False

resolution
: 1024

r1 gamma
: 32.0

duration
: 0:00:00

latest_snapshots
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finished at
: 2022-11-30 13:50:48

last_fid
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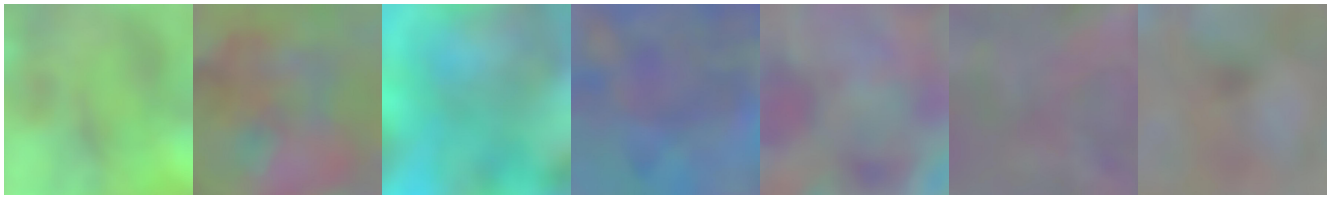
2022-11-30 13:50:48 0



00023

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dataset
: VLoD-cropped2048-scaled1024

conditional_dataset
: False

resolution
: 1024

r1 gamma
: 32.0

duration
: 1 day, 13:17:19

latest_snapshots
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last_fid
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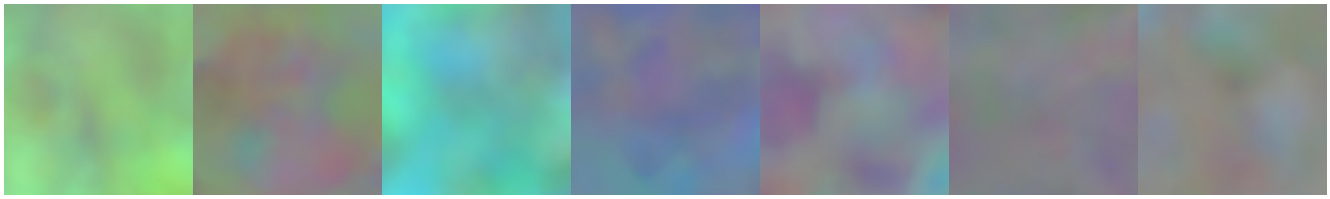

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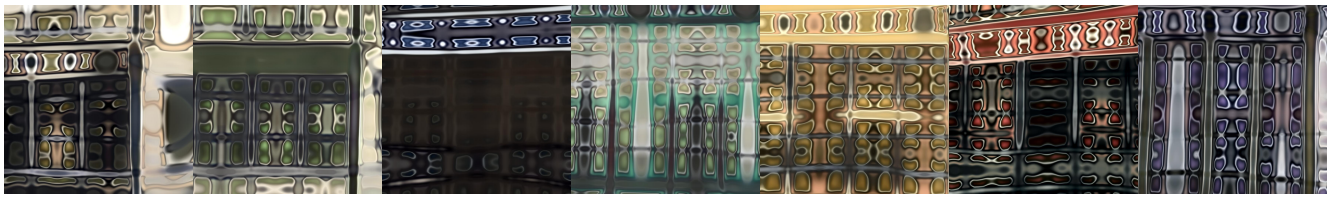
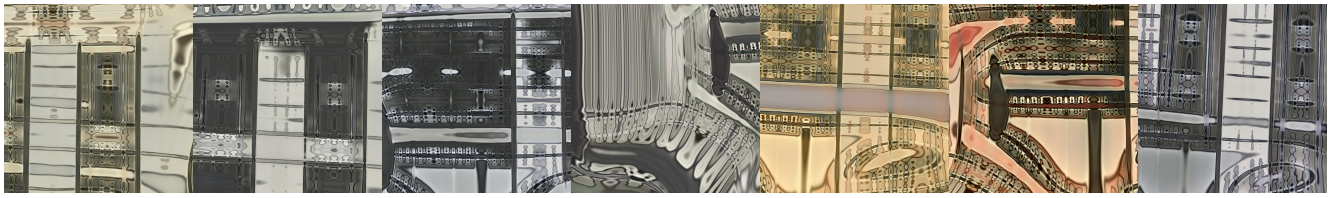


2022-12-01 20:58:19 320



00024

00024-stylegan3-r-VLoD-cropped2048-scaled1024-gpus1-batch32-gamma32

dataset
: VLoD-cropped2048-scaled1024

conditional_dataset
: False

resolution
: 1024

r1 gamma
: 32.0

duration
: 13 days, 1:04:11

latest_snapshots
: 4000

finished at
: 2022-12-19 11:06:37

last_fid
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resumed_from
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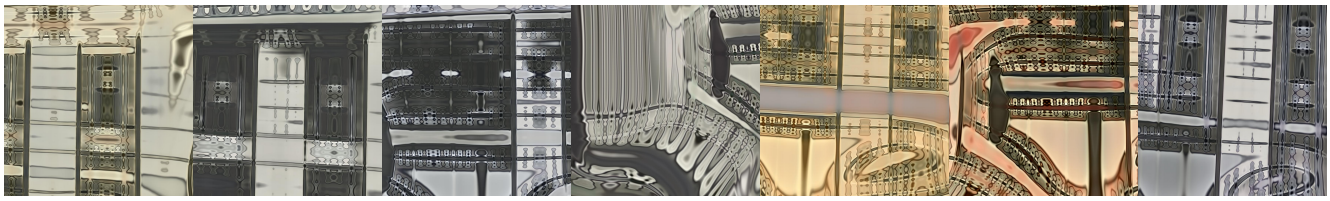

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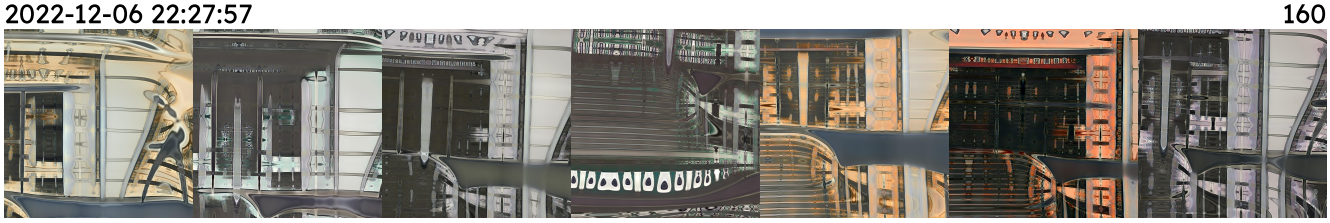

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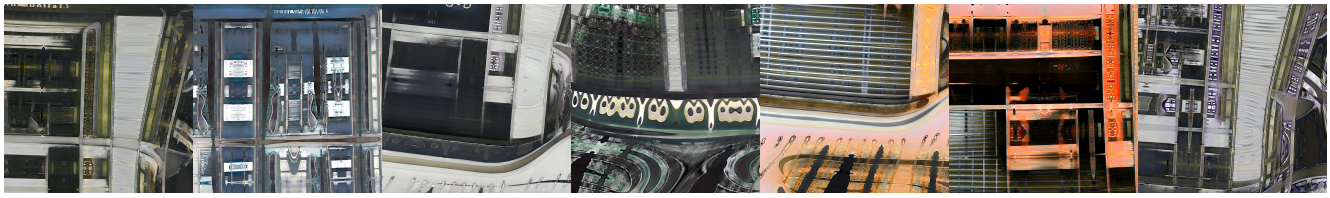
2022-12-07 23:23:24 480



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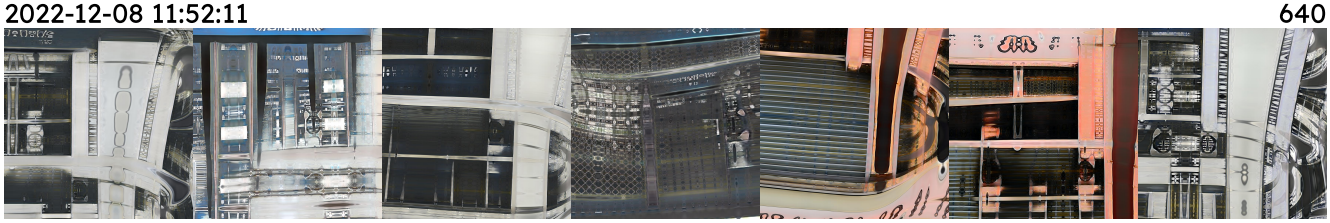
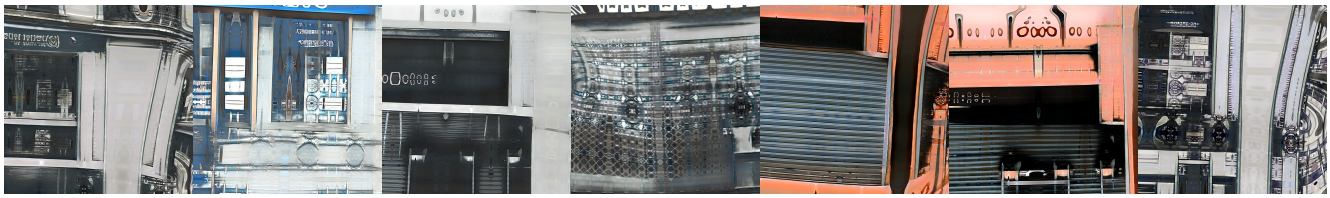


2022-12-09 00:22:29 800



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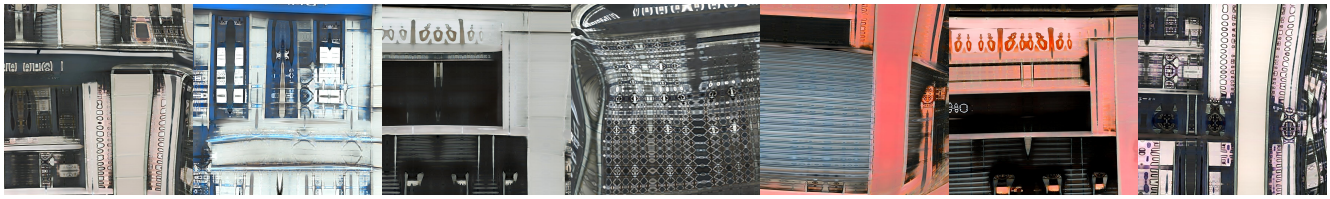

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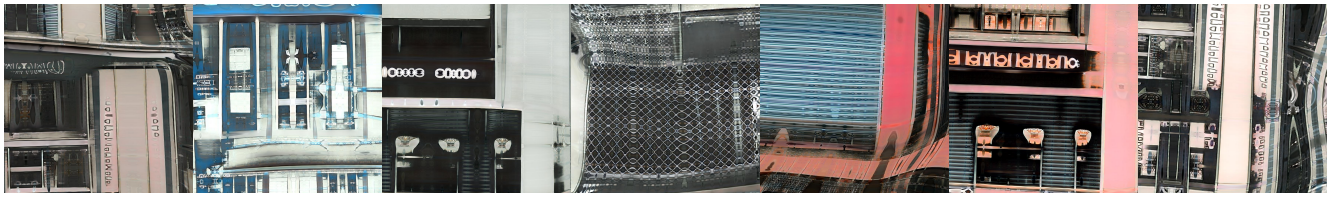

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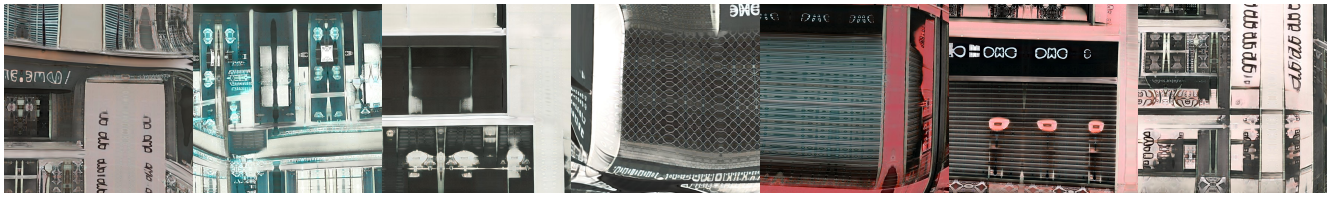
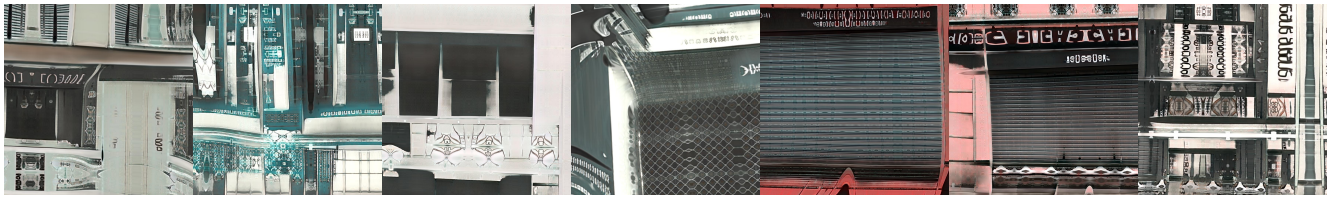


2022-12-11 14:52:49 1600

2022-12-12 03:24:30 1760

2022-12-12 15:56:41 1920

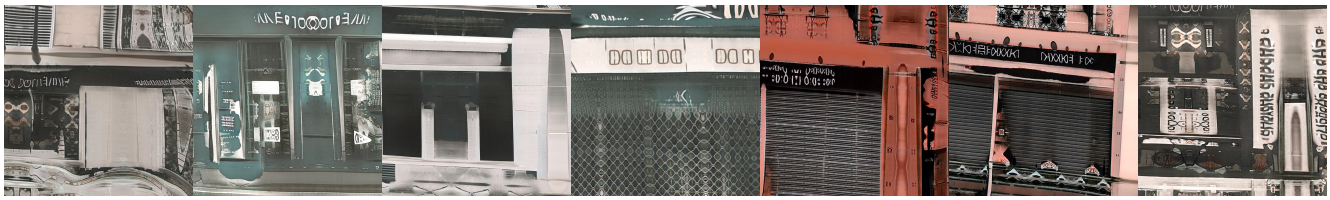


2022-12-13 04:29:12 2080

2022-12-13 17:02:01 2240

2022-12-14 05:34:54 2400

2022-12-14 18:08:07 2560



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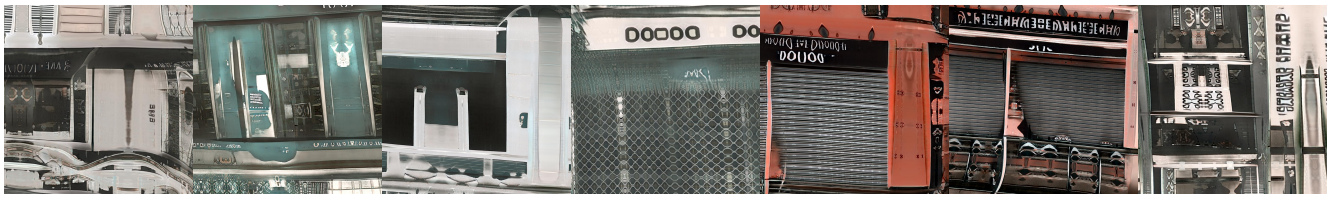

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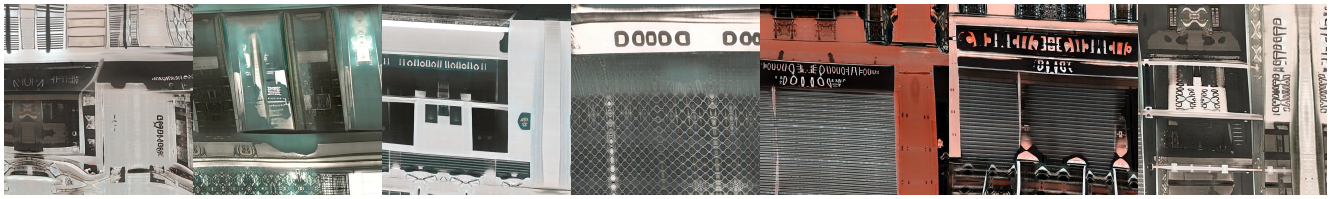

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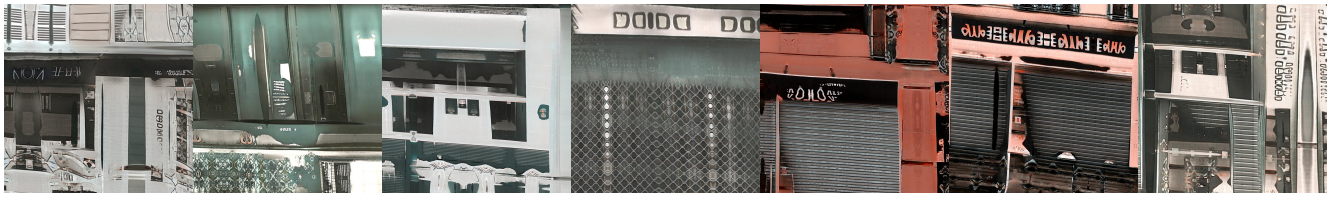

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2022-12-17 08:54:09 3360

2022-12-17 21:27:35 3520

2022-12-18 10:00:26 3680

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2022-12-19 11:06:37 4000

00025

00025-stylegan3-r-VLoD-cropped2048-scaled1024-gpus1-batch32-gamma16

dataset
: VLoD-cropped2048-scaled1024

conditional_dataset
: False

resolution
: 1024

r1 gamma
: 16.0

duration
: 19 days, 8:47:32

latest_snapshots
: 5920

finished at
: 2023-01-07 21:17:50

last_fid
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resumed_from
: 00024-stylegan3-r-VLoD-cropped2048-scaled1024-gpus1-batch32-gamma32 004000

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2022-12-22 03:14:55 800

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2022-12-23 04:24:13 1120

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2022-12-24 05:33:13 1440

2022-12-24 18:07:16 1600

2022-12-25 06:41:05 1760

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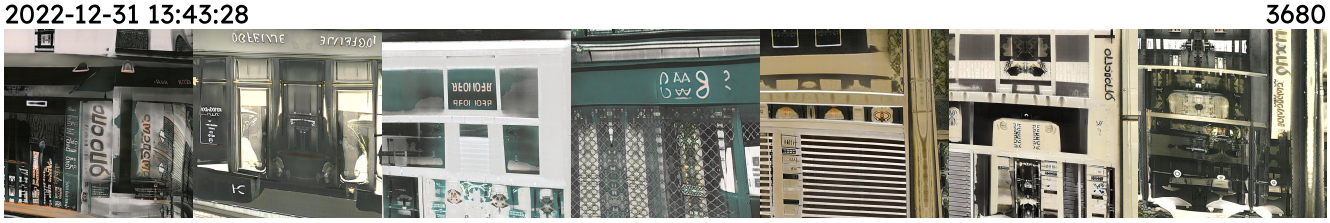

2023-01-01 02:18:48 3840

2023-01-01 14:53:24 4000

2023-01-02 03:29:02 4160

2023-01-02 16:04:43 4320

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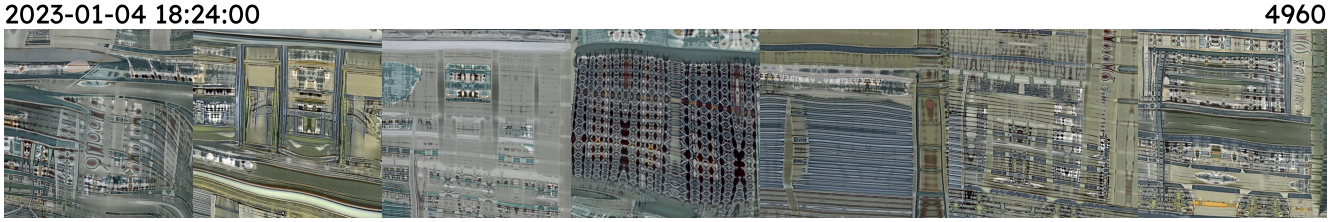
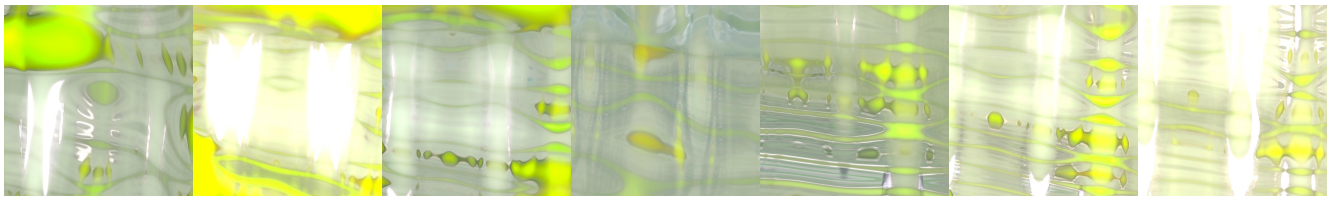


2023-01-05 06:51:35 5120



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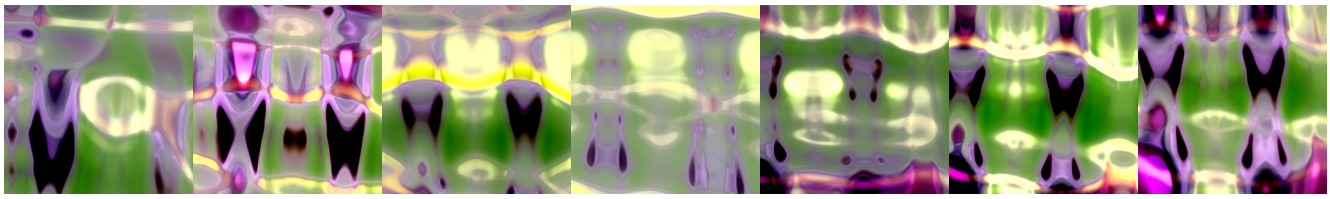

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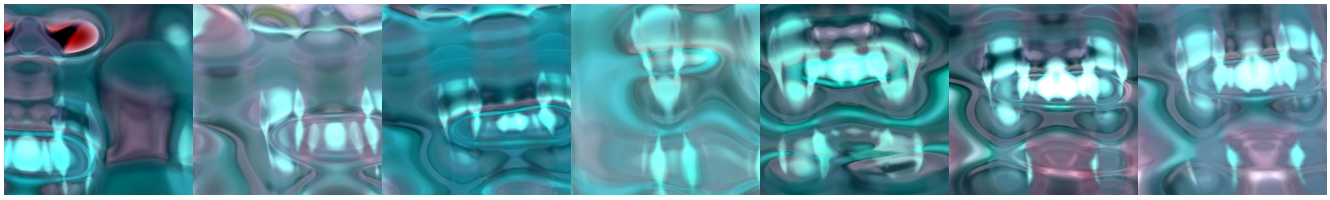

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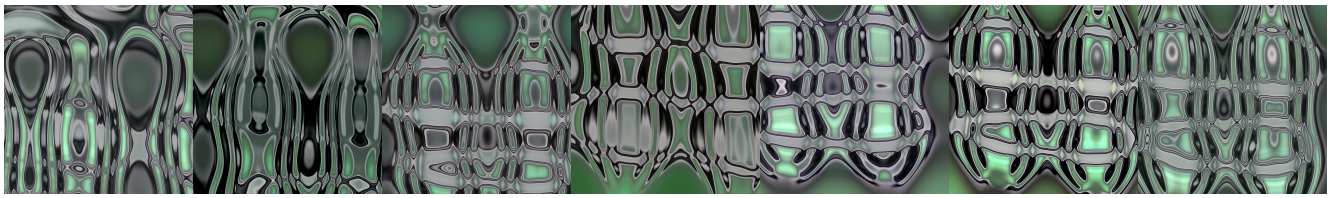
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