## **Twitter Thread by Scott Condron**





Understanding NeRF or Neural Radiance Fields ■

It is a method that can synthesize new views of 3D scenes using a small number of input views.

As part of the <a>@weights\_biases</a> blogathon (<a>https://t.co/tRddw6jXeA</a>), here are some articles to understand them



Want to dive head first into some code? ■

Here is an implementation of NeRF using JAX & Flax <a href="https://t.co/pKO5NDSDqv">https://t.co/pKO5NDSDqv</a>.

The Report used W&B to track the experiments, compare results, ensure reproducibility, and track utilization of the TPU during the experiment.

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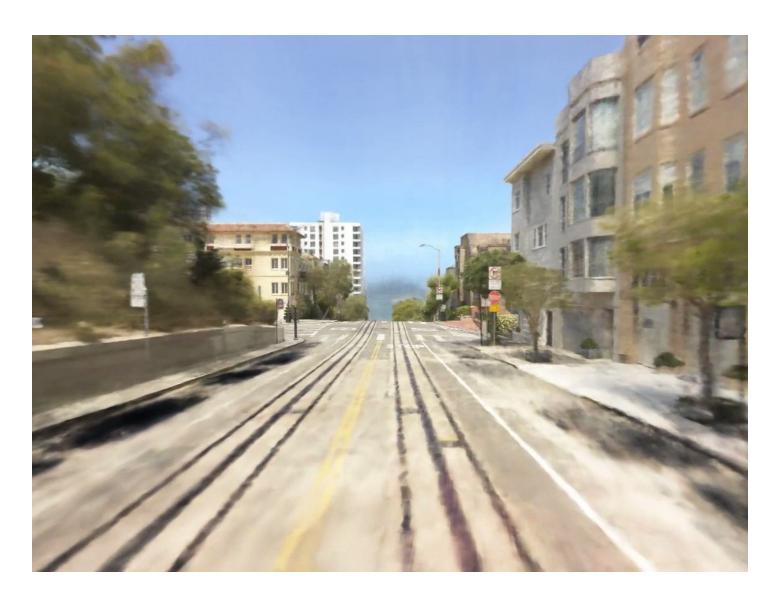
Mip-NeRF 360 is a follow-up work that looks at whether it's possible to effectively represent an unbounded scene, where the camera may point in any direction and content may exist at any distance.

## https://t.co/QNY6VuN8zd



Training a single NeRF does not scale when trying to represent scenes as large as cities.

To overcome this challenge, Block-NeRF was introduced which yields some amazing reconstructions of San Francisco. Here's one of Lombard Street.



They built their implementation on top of Mip-NeRF, and also combine many NeRFs to reconstruct a coherent large environment from millions of images.

## ■Read more here:

https://t.co/C34gdGlx6f

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These articles have been written using <a>@weights\_biases</a> Reports, a collaboration tool for ML projects.

Here's a thread I wrote about why I love W&B reports https://t.co/EiCtCfyZcb

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How many discoveries were lost because they weren't written down?

I wrote a bit of a love letter to <a href="mailto:@weights\_biases">@weights\_biases</a> Reports to share with people while they onboard if you'd like a read.<a href="mailto:https://t.co/8UyAkz6ZGR">https://t.co/8UyAkz6ZGR</a>

Why I like Reports:

- Scott Condron (@\_ScottCondron) March 23, 2022

Thanks for reading! ■

The W&B blogathon is ending in a few days on June 14, if you'd like to take part and write some nice articles as I've included here, we'd love your participation.

https://t.co/tRddw6jXeA

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Follow <u>@soumikRakshit96</u> for more of these articles. He's an amazing engineer and is great at explaining extremely complex topics!