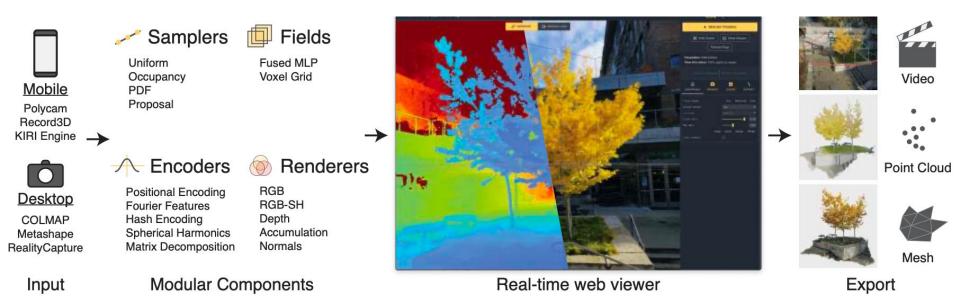
Nerf-Studio



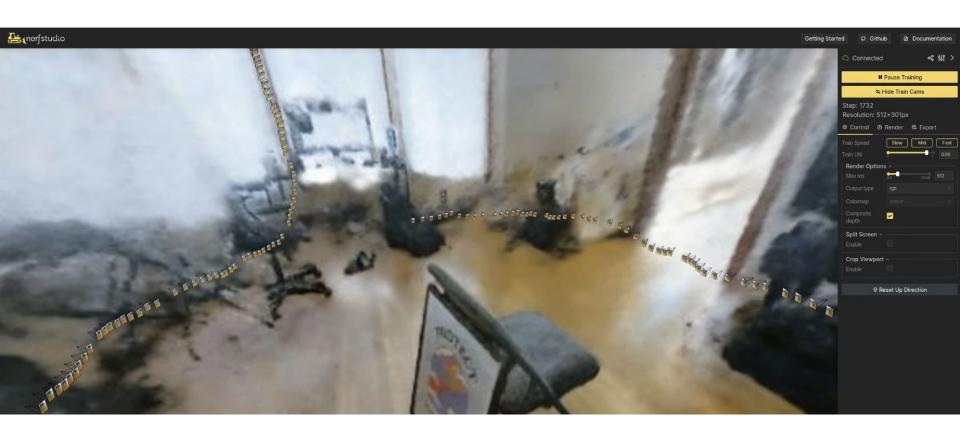
Overview

Methods:

- Nerfacto: Recommended method, integrates multiple methods into one.
- Instant-NGP: Instant Neural Graphics Primitives with a Multiresolution Hash Encoding
- NeRF: OG Neural Radiance Fields
- Mip-NeRF: A Multiscale Representation for Anti-Aliasing Neural Radiance Fields
- TensoRF: Tensorial Radiance Fields
- Splatfacto: Nerfstudio's Gaussian Splatting implementation
- Many third party ones: https://docs.nerf.studio/#third-party-methods

Example 1: Poster

- Existing Dataset
- Default: AlexNet and nerfacto as default training method
- Training time on 1 T4 ~25 minutes
 - 4GB/16GB,60%utilization
- Render/Export scene from terminal/UI





Example 2: Lego Astronaut

- Polycam -> 32 images

```
- Convert:

ns-process-data polycam --data data.zip--output-dir astronaut
```

- Train:

ns-train nerfacto --data astronaut

- Nerfacto method
- Train time 30min

Start





Example 3: Earth from Google Earth

- Video of google earth
- Roughly 2 hours of training
- Not really rotating around the globe

