

# instant-ngp

Instant neural graphics primitives: lightning fast NeRF and more

- [npm basic commands](#)

# npm basic commands

1. Start with your own set of images, make sure they are not blurry. Choose approximately 30 - 150 images.
2. put your images in C:\Users\student\python\instant-ngp\data\nerf\YOUR\_PROJECT\_FOLDER\images
3. open anaconda shell
4. activate the instant-ngp environment

```
conda activate instant-ngp
```

5. navigate with cd to your project folder

```
cd python/instant-ngp/data/nerf/YOUR_PROJECT_FOLDER
```

6. execute the "colmap2nerf.py" script from your project folder

```
python "C:\Users\student\python\instant-ngp\scripts\colmap2nerf.py" --colmap_matcher exhaustive --run_colmap --aabb_scale 16
```

7. wait until the matching has finished - a few more files in your project folder have been created:

## **YOUR PROJECT FOLDER**

```
└─ colmap_sparse
└─ colmap_text
└─ images
└─ base.msgpack
└─ base_cam.json
└─ colmap.db
└─ transforms.json
```

8. open Developer Command Prompt for VS 2019 (⇧+⇧KEY and type "Developer Command Prompt")
9. navigate with "cd" to the instant-ngp folder

- 10.

```
.\build\testbed --scene data\nerf\YOUR_PROJECT_FOLDER
```

## rendering

```
python scripts/render.py --scene data/nerf/sj --n_seconds 5 --fps 60 --render_name test --width 1920 --height 1080
```

(run from developer command prompt)

```
.\build\testbed --scene data\nerf\kalmar
```