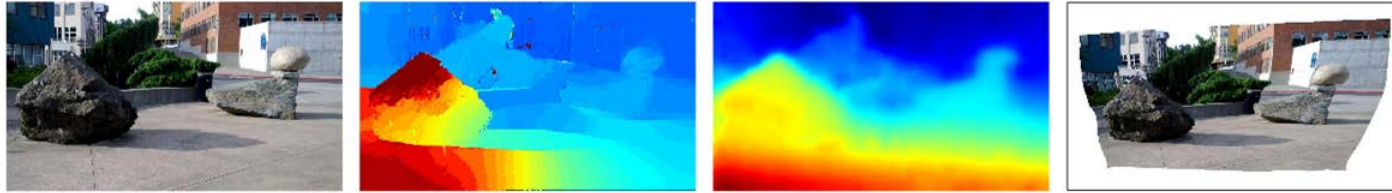


Micro Baseline Stereo



Courtesy: Sunghoon et al. (High Quality Structure from Small Motion for Rolling Shutter Cameras)

Goal: While a user frames an object to capture an image, parallax is created from the small motion. We want to exploit this “accidental” motion to infer depth and create a 3D reconstruction of the scene.

Challenges:

- Rolling Shutter imagery
- Small baseline stereo
(high uncertainty in depth estimates)

Reference:

- High Quality Structure from Small Motion for Rolling Shutter Cameras
- 3D Reconstruction from accidental motion