**Camera calibration**

* Estimates the parameters of lens and image sensor of a camera.
* You can use those parameters to remove lens distortion.

**Pinhole camera**

* Describes the relationship of the points in 3d-scape onto an image plane.

**Parameters**

* **Extrinsic:** location of camera in the 3D scene. The world points are transformed to camera coordinates using the extrinsic parameters.
* **Intrinsic:** optical center and focal length. The camera coordinates are mapped into the image plane using the intrinsic parameters.

**Camera calibration parameters**

Calibration algorithm: calculates the **camera matrix** using extrinsic and intrinsic parameters.