

Assumptions:

- 1. A 3d point can be part of 0 or many point cloud
- 2. A point cloud can have 0 or many 3d points
- 3. A plane RANSAC can generate at least 3 point 3d
- 4. A plane RANSAC can generate at least 1 plane 3d
- 5. A plane RANSAC must have one point cloud

references:

- 1. *Distance between point and plane - formula, proof, examples*. Cuemath. (n.d.). Retrieved January 23, 2023, from <https://www.cuemath.com/geometry/distance-between-point-and-plane/>
- 2. juantheron (<https://math.stackexchange.com/users/14311/juantheron>), General equation of a plane through 3 points., URL (version: 2017-11-27): <https://math.stackexchange.com/q/1449118>

