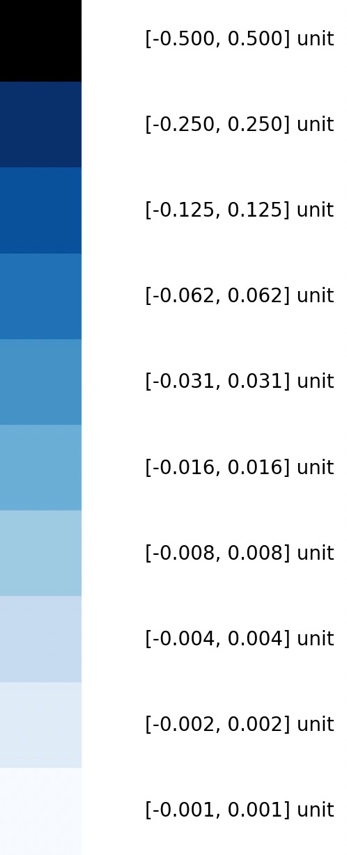
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Color Map



House K-D Tree Visualizations with the above Gradient Color Map

A blue and white network

Description automatically generatedA blue and white dotted design

Description automatically generated

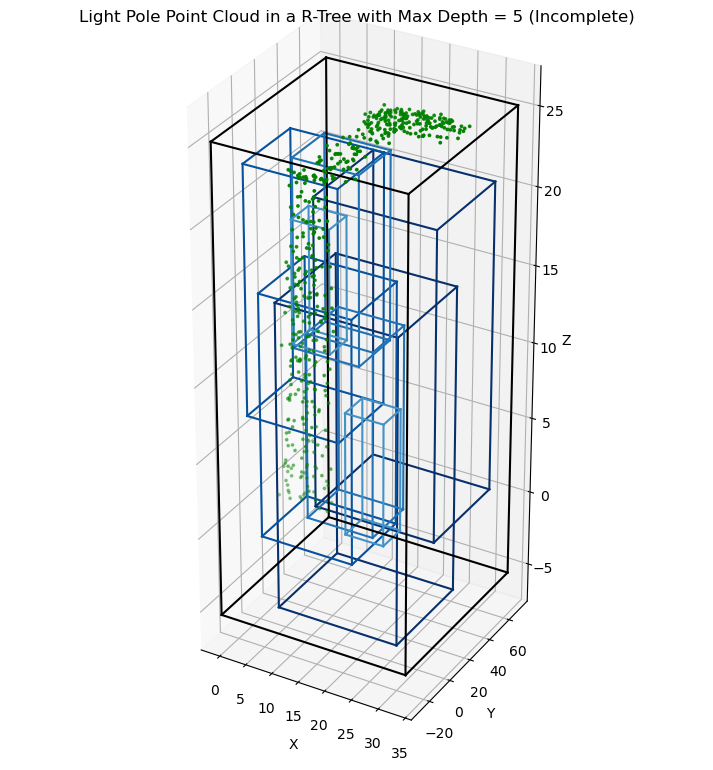
Tools for Building R-Tree Visualizations

Matplotlib 3D

<https://www.geeksforgeeks.org/three-dimensional-plotting-in-python-using-matplotlib/>

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First try of building a R-Tree visualization



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**1. New Ways of Building an Octree and K-D Tree Visualization**

**by converting las file to csv first**

Performance (Octree):

Performance (K-D Tree):

**2. New Color Map Labels**

Number of points

depth = [0, 1, 2, 3, 4, 5]

Light pole: [512, 64, 19, 8, 1]

House (Random): [512, 385, 64, 8, 1]

House (Distance): [512, 64, 27, 8, 1]

Tree (Random): [271, 64, 8, 2, 1]

Tree (Distance): [400, 64, 24, 8, 1]

**3. Apply Size Map?**

Visual before applying size map: Visual after applying size map:

A network diagram of dots and lines

Description automatically generated with medium confidenceA network of blue dots and dots

Description automatically generated

**4. R-Tree Visualization still progressing…**

**5. Still finding a way to retrieve spatial data**

**6. Would love to have a link to the paper you mentioned**