```
+------------------------------------------+
|  depth_clustering::Projection            |
|  Params                                  |
+------------------------------------------+
|                                          |
+------------------------------------------+
| + ProjectionParams()                     |
| + ~ProjectionParams()                    |
| + SetSpan()                              |
| + SetSpan()                              |
| + v_start_angle()                        |
| + v_end_angle()                          |
| + v_span()                               |
| + h_start_angle()                        |
| + h_end_angle()                          |
| + h_span()                               |
| + rows()                                 |
| + cols()                                 |
| + size()                                 |
| + AngleFromRow()                         |
| + AngleFromCol()                         |
| + RowFromAngle()                         |
| + ColFromAngle()                         |
| + RowAngleCosines()                      |
| + ColAngleCosines()                      |
| + RowAngleSines()                        |
| + ColAngleSines()                        |
| + valid()                                |
| + VLP_16()                               |
| + HDL_32()                               |
| + HDL_64()                               |
| + FromConfigFile()                       |
| + FullSphere()                           |
+------------------------------------------+
```

#_params

```
+------------------------------------------+
|  depth_clustering::Abstract              |
|  ImageLabeler                            |
+------------------------------------------+
| # _depth_image_ptr                       |
| # _label_image                           |
| # _radians_threshold                     |
| # RANDOM_COLORS                          |
+------------------------------------------+
| + AbstractImageLabeler()                 |
| + ~AbstractImageLabeler()                |
| + SetDepthImage()                        |
| + ComputeLabels()                        |
| + GetLabelImage()                        |
| + LabelsToColor()                        |
+------------------------------------------+
```

```
+------------------------------------------+
|  depth_clustering::Linear                |
|  ImageLabeler< STEP_ROW,                 |
|  STEP_COL >                              |
+------------------------------------------+
| + Neighborhood                           |
| + NEIGH_SIZE                             |
+------------------------------------------+
| + LinearImageLabeler()                   |
| + ~LinearImageLabeler()                  |
| + LabelOneComponent()                    |
| + DepthAt()                              |
| + LabelAt()                              |
| + SetLabel()                             |
| + WrapCols()                             |
| + ComputeLabels()                        |
+------------------------------------------+
```