

geometric  
(vector)

pixelized  
(raster)

spherical polar

Cartesian

`lsst.sphgeom`  
HTM, Q3C indexing  
(in progress)

`lsst.afw.detection`  
Footprint, HeavyFootprint

`lsst.sphgeom`  
ellipse, box, polygon

`astropy.region`  
unified interface  
(in progress)

`photutils`  
rasterization of  
ellipses, boxes

`lsst.afw.geom`  
point, box, polygon, ellipse,  
affine transform classes

`pyregion`  
DS9 serialization