**Rasters**: a giant grid with each cell represented by a pixel. Extend define the outer coordinates of the grid, which in turn define where in the world our data is.

Importantly, here is the land cover legend and definitions: <https://www.mrlc.gov/data/legends/national-land-cover-database-class-legend-and-description>

What can you tell me about this SpatRaster object? NLCD <- NLCD\_2021\_Maricopa\_for\_lab.tif

* Resolution (depends on the coor. Ref. system, in this case it is in meters)
* Coor. Ref.
* Extent: the 4 corners of our plot
* Pixel size

To plot as discrete classes: plot(NLCD, type="classes")

**Vectors**

Much of the resources in this lab come from R resources for spatial analyses available at <https://rspatial.org/index.html>

You find the EPSG code for this coordinate reference system at https://spatialreference.org?

EPSG code is what R uses to determine the coordinates and where it should appear in the world