latch data structure

id: unique identifier (UUID?) printible: (cooks, rectangle, line, irregular, some) color: hue or hue and sutuation value: points: point cloud in X,Y, organized with

nearest neighbors and CCW order primitive des: chele centre x, center y, radios, height cone

red - SWX, SWY, NEX. ME Y, height (5)

1 he - end(x, end(Y, end2 X, end2 Y, height (5) cone - conterx, andery, bottom rad, top rad, height (5)

Functions:

mosert point into cloud -> knn? check against primitive? infer primitive compare point for membership compare point for proximity plot patch on given figure compare patch to patch (by primitine metrics)

Inter prometive 4) chile & transform to polar words, do a knear regression, determine quality of fit

(X-XC, 4-YC) (SA) = (Forton-(routen-vtop) 2) (COSO, SMO)

 $\frac{1}{x^2} = (x - xc)^2 + (y - yc)^2$

Noon 1:45 * For sold deeds, will only ever get surface points: -> can use descriptive into for confingation of association a e.g. orange barnel or gray concrete barnier 7 can also use 7 - coordinates (height) to avoid mismatches 4 a layered approach that works by slikes? 4) some layors are "natural" such as surface & level, mid-barrier or barrel, chest height? Goats: ID patches, confirm agreement of putch or quality 4 early statistics what idoes a sentes of power hirs mean?