Image Formation 3 & Contrast & Point processes opency: BGR matplotlib : RGB imq = [:,:,[2,1,0]] 3D array: R.C, color channel [[[RG,8], [R.G.8]] color space transformation [[R.G.B], [R.G.B]]] Problems in image formation: contrast: (over/under exposure) 7 resolution: (too small / too large image size) Bayer artifacts: (color from demosarc) > Blur : exposure time, moving object Aliasing : dicretization Noise : graininess Contrast difference between neighboring image regions · tell where one thing ends & other one begins 'We would like to inorcase contrast bothen image regions tirst Image processing algorithm Point process output intensing · fixes undrexposur 255 · increases intensity of low intustics not continuous push up & spread out low intensity functions, it is discrete 255 input into sity lowinhours spread out out . Fixes over-exposure Spread out, but · spreads out high intusing no new info squisted, so lost info no matter what, we lose information

