Color Strading -Bi-Directional Reflecture Distribution Function - Mix of several frequencies (BEDF)
- Surface material, light direction, view direction
surface orientation. -Linear phenomenon - You do not see" the light spechum - Brain adapts BRDF = Ambient + Spearlar + Diffuse. -Diffuse - enal scattering mall directions Syes-Rools
-No color
-Sansitive
-All overketina max(kd· I·(l·n,o))

lightdir suface normal

- Specular - nirror-tike reflection in a

small direction res
- Long, medium, stort
- Less sensitive
- Each core - speific f dist.
- Concertrated in forea. F = reflected vector. r=-2(d.2)2+d where d=f marks. I. (F. V, 0)) - Ambient - cheep hack, all other light. - Cannot display "negative" light. - Displayed Eto, 1] R= I (Ka+ Kod max(l. in, o)+Kz max(7.0,0)) - Metal > reflects same color spealar - Plastic > reflects white color spealar - Lights -Directional
-Four away point light.
-Hits every point the same. Point closer charges point to point. - Govard Enterpotate from vertex color - Phonor_ Interpolate from normals aD Transformation P'= [cosp -sind] P - Rotation - magesta - Relates aroud (0,0) P' = [5x 0] P - W/ 3 primariles 0=W-(αρ,+β.ρ.+ 17/3) PI=[Hey I]P - Singular Value Decemp. moves my -Gamma 1=27 yn (1.8,22) orthonormal -diagonal - Dynanic Rarge "blockest Black" "Whitest white" A=PRSET P=QRT cordhonormal) make det (P, R) = 1 Amy matrix A is now: Rotate: Rotate: Scale: Rotate - Reflection , got bours off -Honogenous coordinates, add a w to each
- For directions w =0.
- Divide to a w
- Translation [10 tx][[k]] - Tronsmission -> Some light passes through -Scattering (du to particles) Pi = [o tx] Pry . Black body radiation - makes hot abjects Vectors give off light -All other matrices if scalar triple prod 2 are some 20 - Inverses - Translation > regate to ty -Potation > transpose -Scale -> Tovert diagonal others -> Invert matrix Invert SVD matrices.