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(1) - Approximately 6-7 million cones.

- Sensitive to daytime-light levels (photopic
vision)
- Detect color by the use of 3 different kinds:
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(uO!s!^ כ!̣doloos) s|ə^ə| łЧద!!-MO| Oł Ә^!!!!SUəS •
- Non-uniform distribution across the retina

spoy


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$\stackrel{O}{\sigma}$















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$M O \| \partial \lambda$









$$
\begin{aligned}
& \text { HSV by } \\
& \text { Projection of RGB } \\
& \text { - This decomposition is more } \\
& \text { natural for how we sense } \\
& \text { color, decomposes } \\
& \text { brightness component from } \\
& \text { color. } \\
& \text { - More natural for artists, } \\
& \text { regardless of which variant } \\
& \text { - Note that H is cyclical }
\end{aligned}
$$

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## 8SH






$$
\begin{aligned}
& \text { Perceptual uniform } \\
& \text { transformation of } X Y Z \\
& L \text { approximates } \\
& \text { luminance or } Y \text { in } X Y Z \\
& \text { (a,b) \& (u,v) } \\
& \text { approximate } \\
& \text { chromaticity or M-to-G } \\
& \text { and } Y \text {-to-B channels } \\
& \text { (the } X Z \text { in } X Y Z)
\end{aligned}
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Variable lighting
and background
conditions affect
what we see.









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$\frac{O}{3}$
$\frac{3}{\square}$
$\frac{\square}{\square}$







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