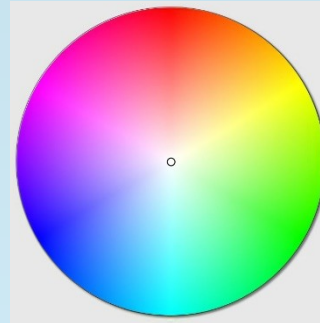


An Image Contains a Lot of Information

In practice, modern systems often use **24 bits (3 B)** to **specify one** of 16,777,216 (2^{24}) possible **colors**.



What if I give you one 1920×1080 picture for your computer desktop background?

That requires

$$\begin{aligned} &1920 \times 1080 \times 24 \\ &= 49,766,400 \text{ bits} \\ &= \mathbf{6,220,800 \text{ Bytes}.} \end{aligned}$$

