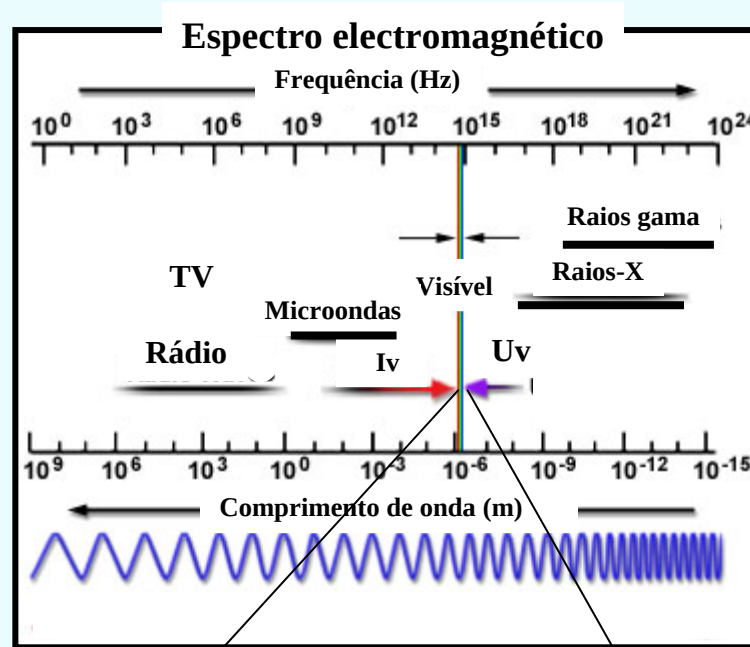


LUZ E COR

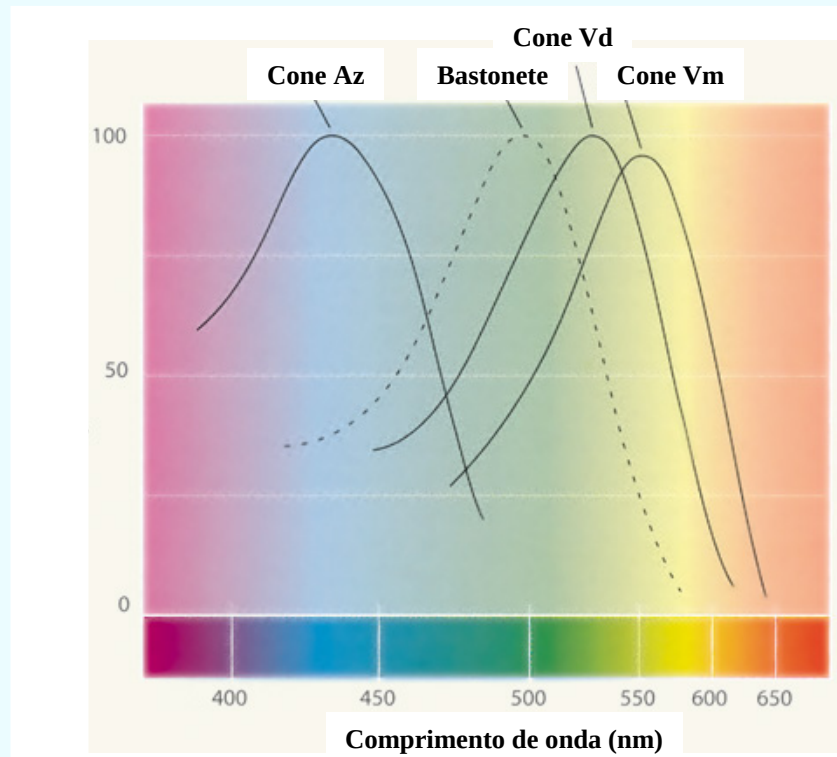
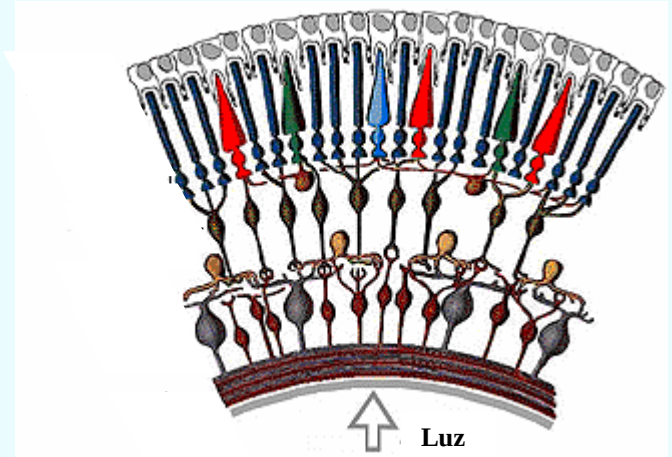
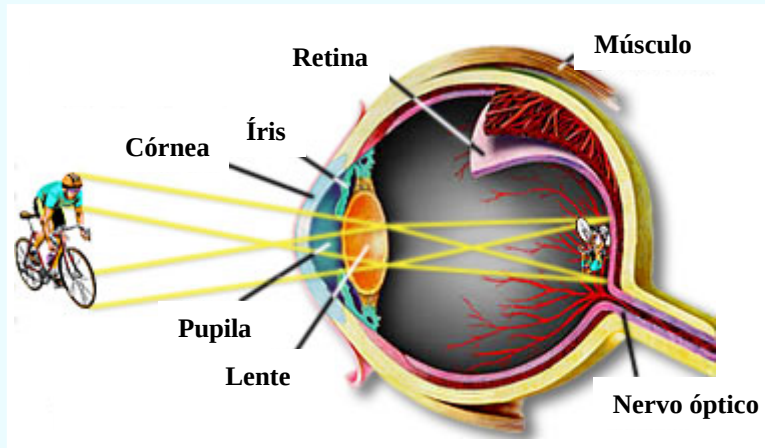
Francisco P.S.C.Gil

Dep.Física, Univ. Coimbra

Radiação EM



Visão



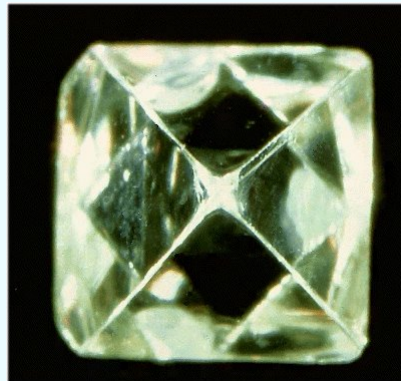
Objetos

opacos

reflectores

translúcidos

transparentes



Cor dos Objectos

Difusão

Absorção

Emissão

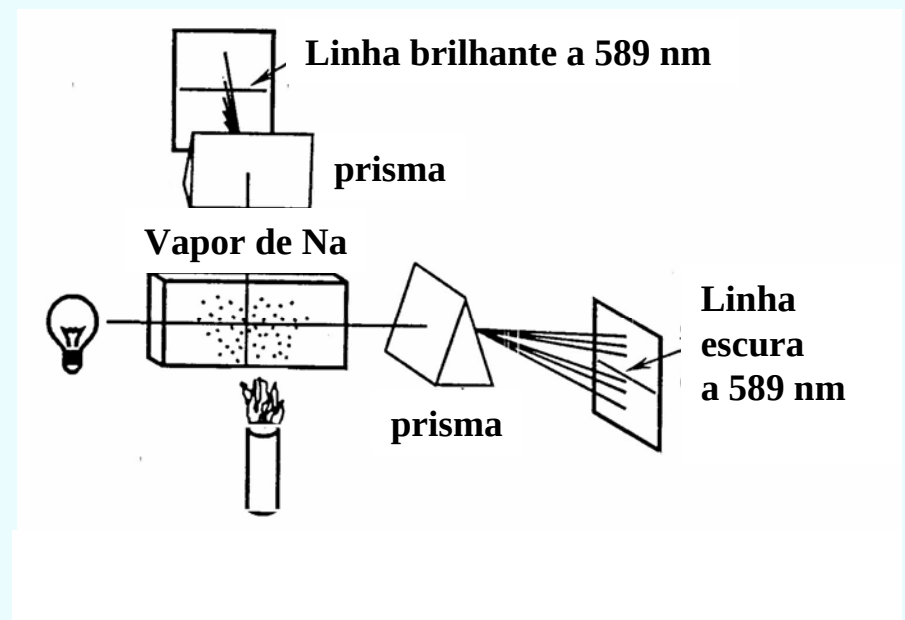
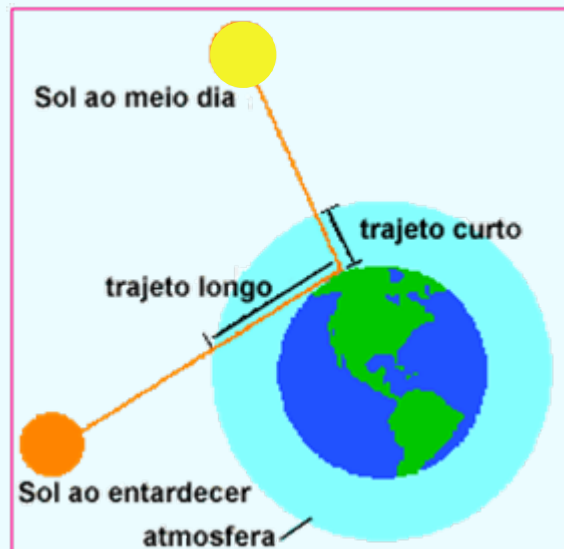
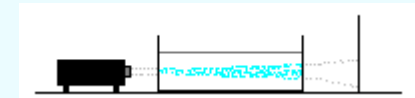
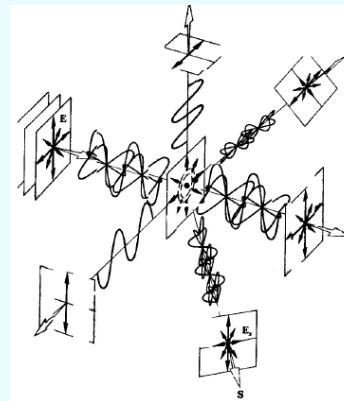
→ { fluorescência
fosforescência
radiação de corpo negro

Reflexão

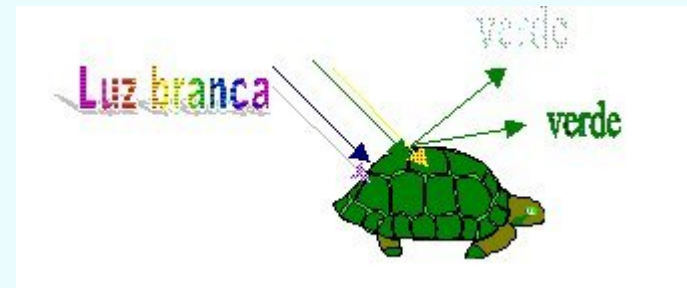
Refracção

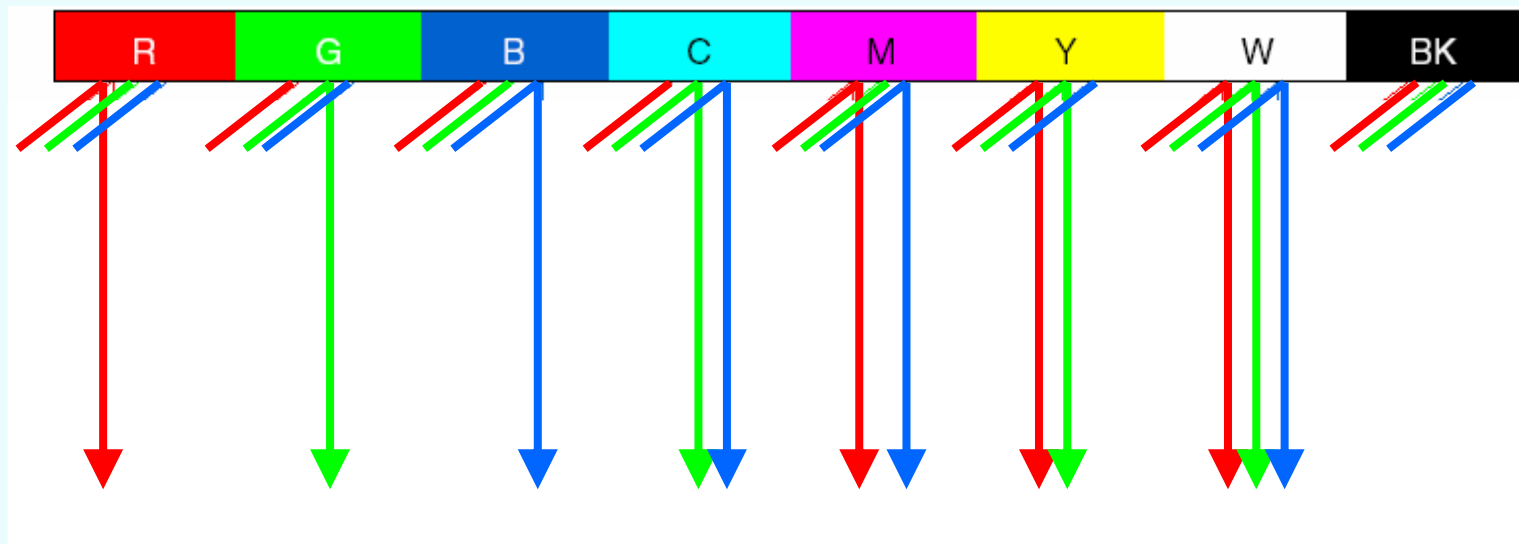
Difracção

Difusão

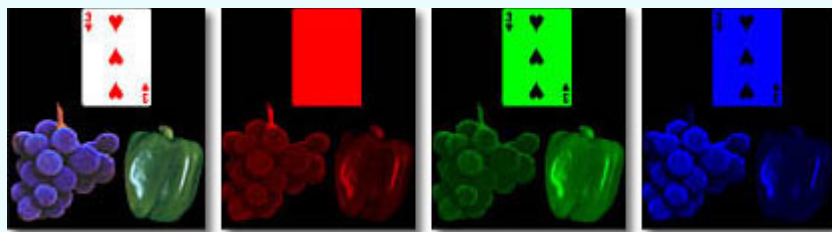


Absorção

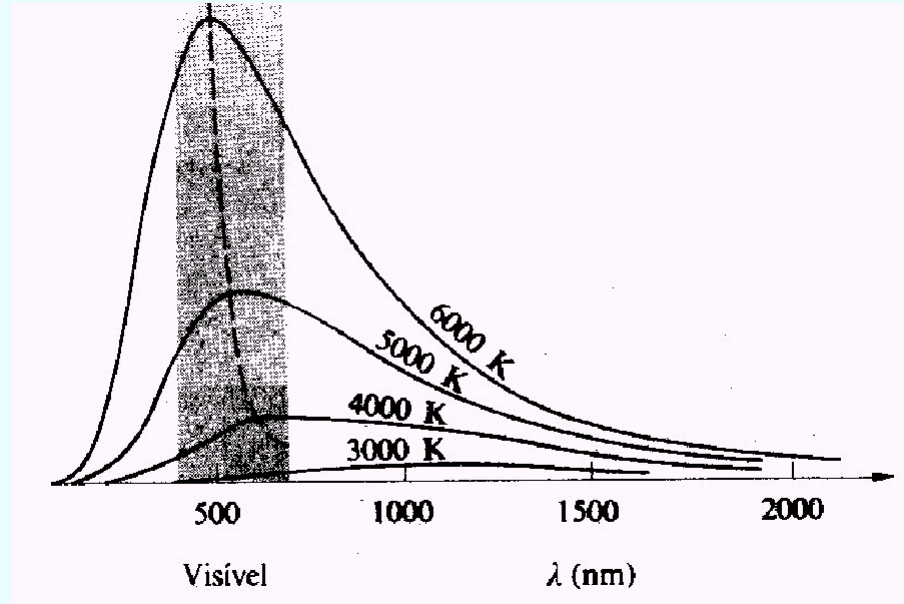
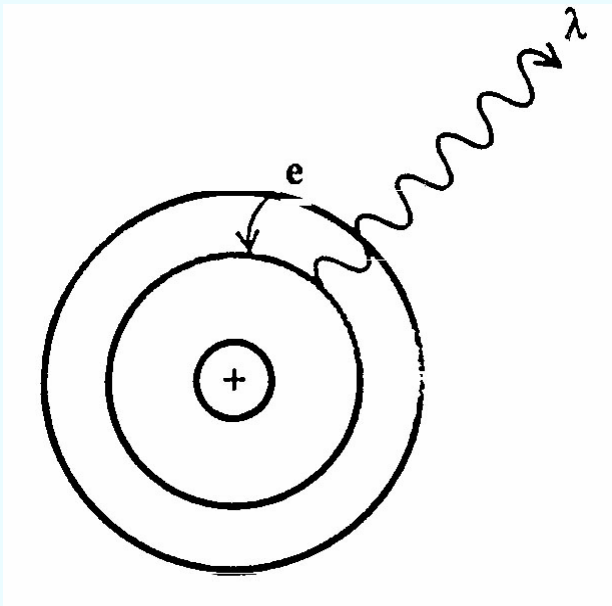
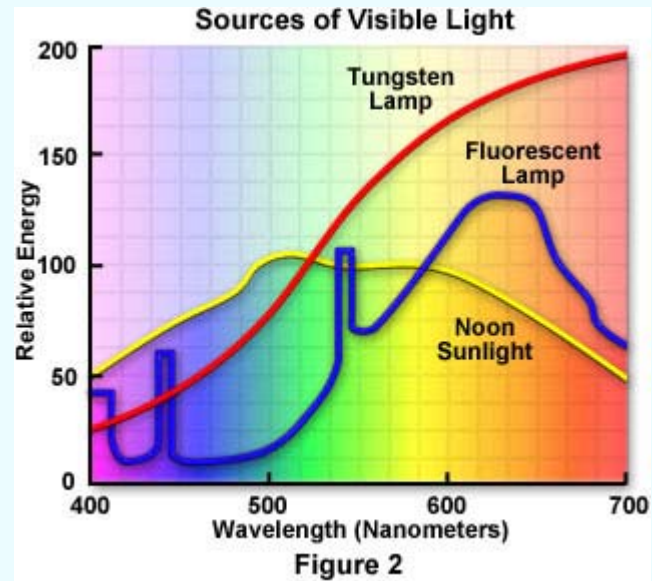




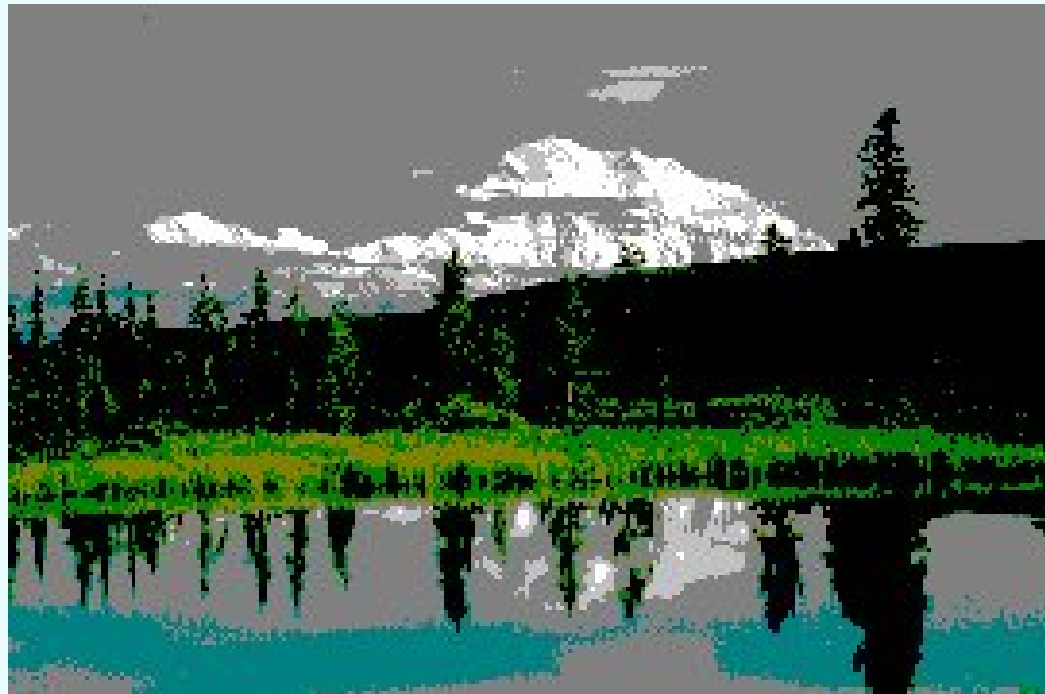
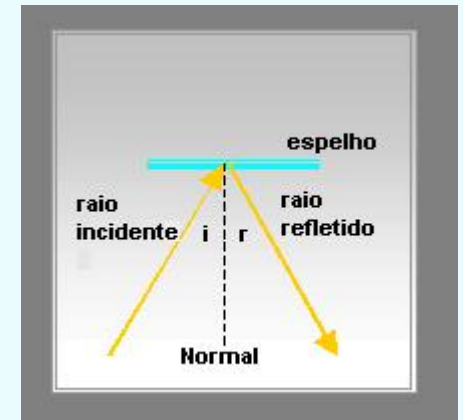
Cores em função da iluminação



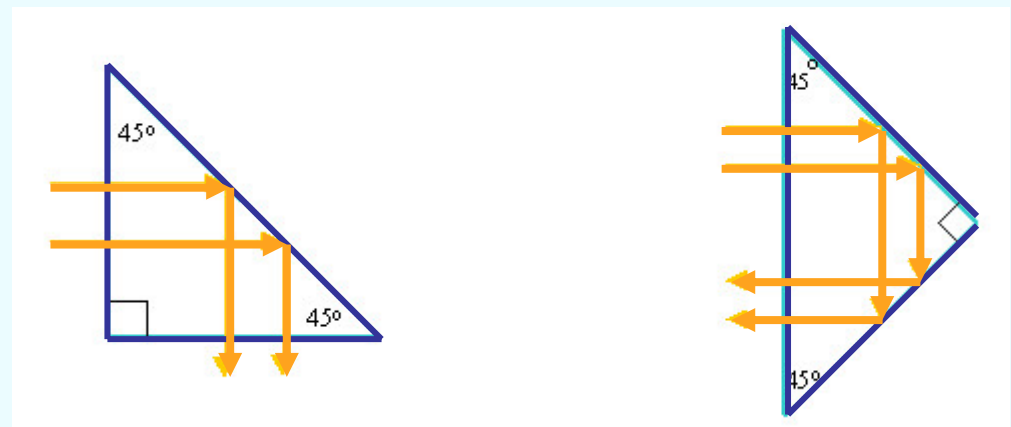
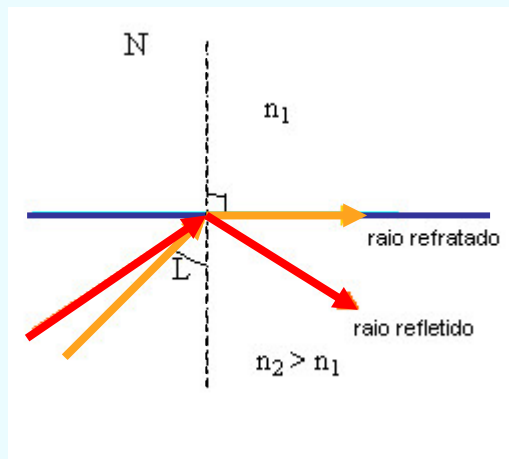
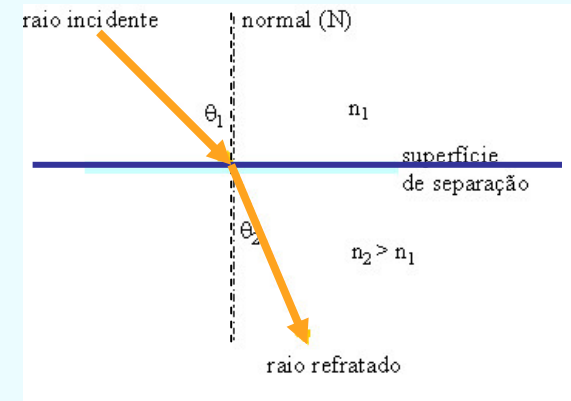
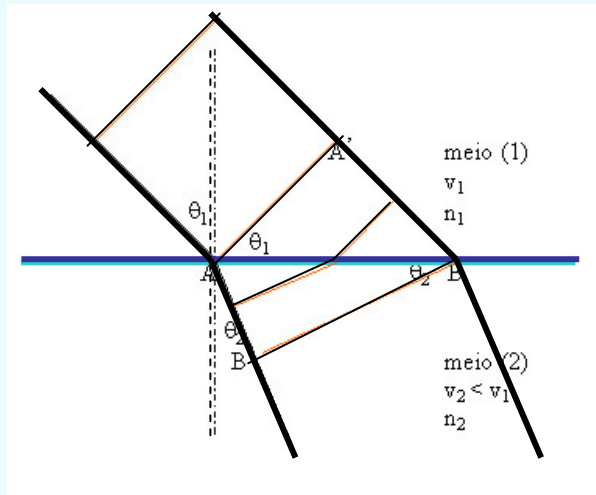
Emissão

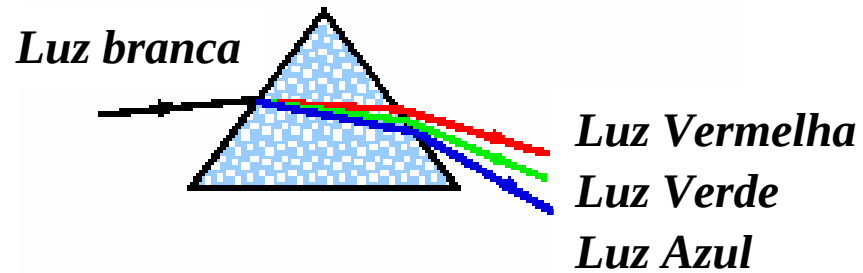


Reflexão



Refracção

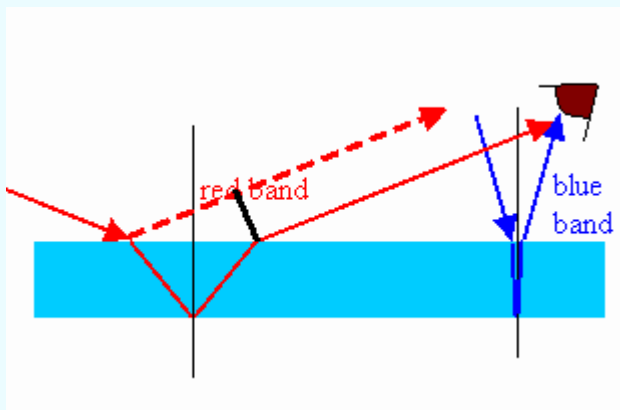
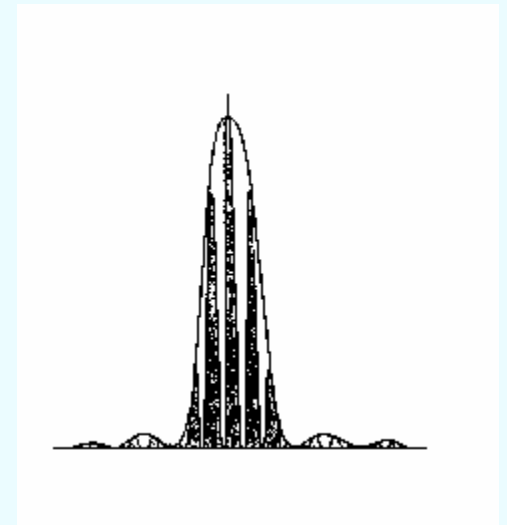
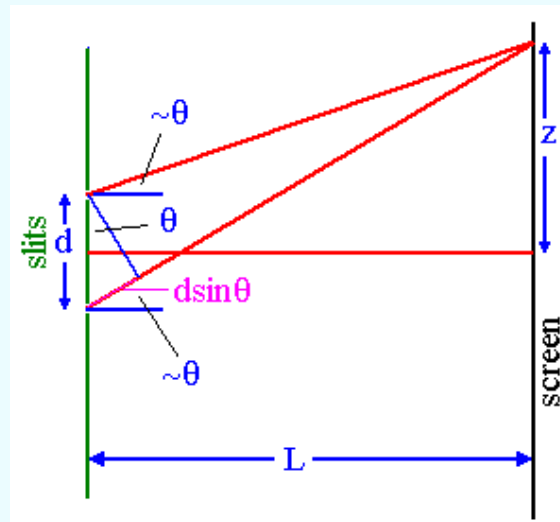




<i>Cor</i>	λ (nm)	<i>Vidro crown</i>	<i>Diamante</i>
Vermelho	660	1.520	2.410
Laranja	610	1.522	2.415
Amarelo	580	1.523	2.417
Verde	550	1.526	2.426
Azul	470	1.531	2.444
Violeta	410	1.538	2.458



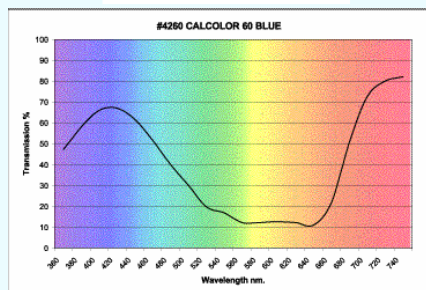
Difracção



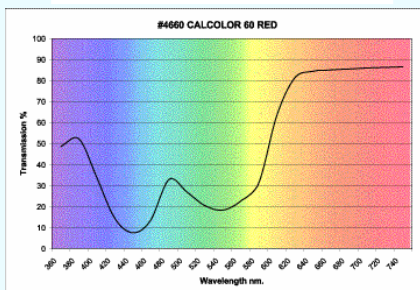
Percepção da cor

Cores primárias

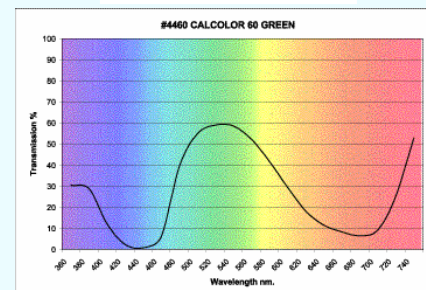
Azul



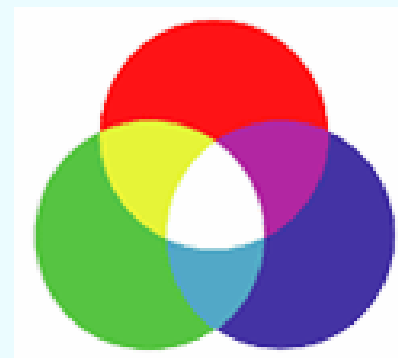
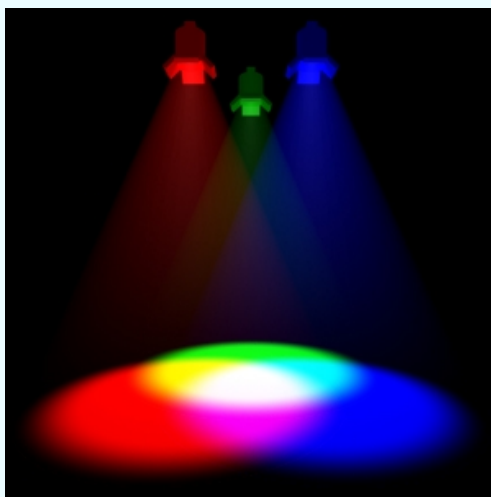
Vermelho

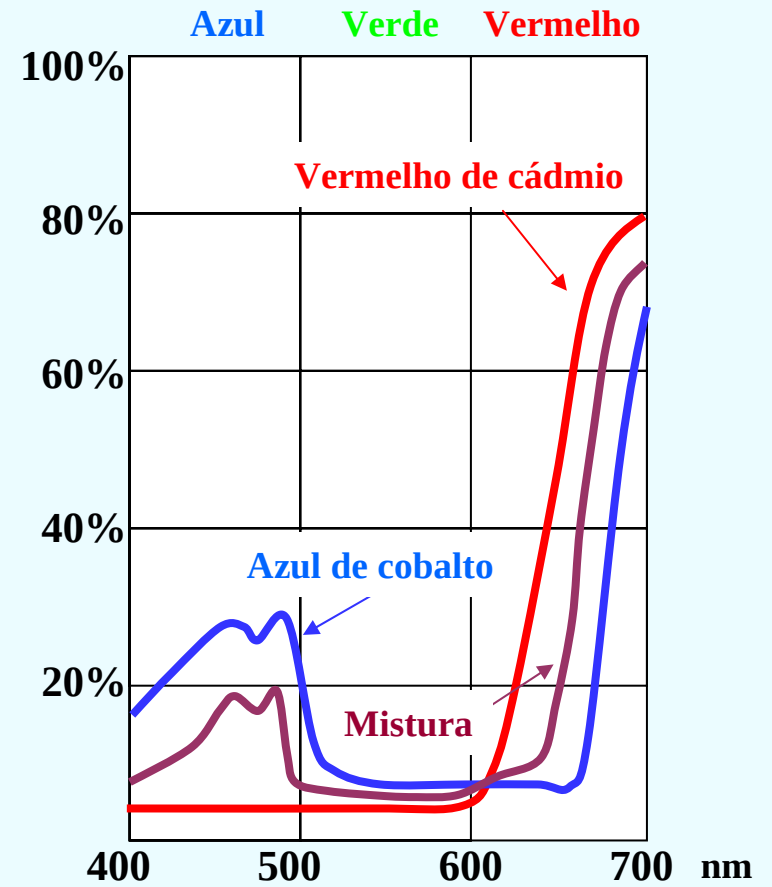
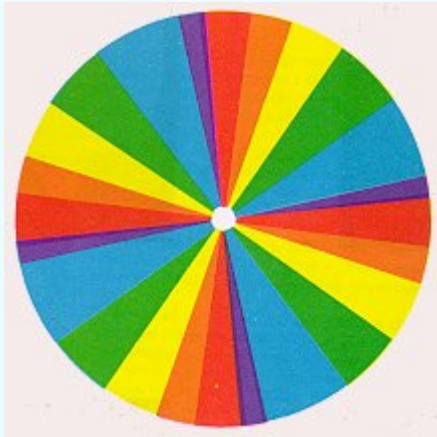


Verde



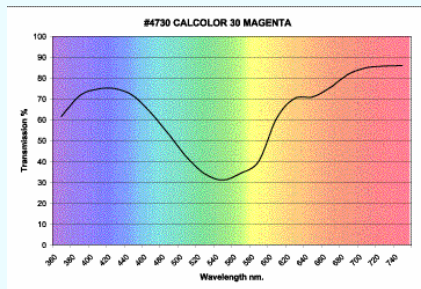
Adição



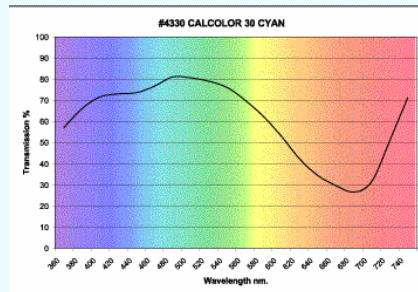


Cores secundárias

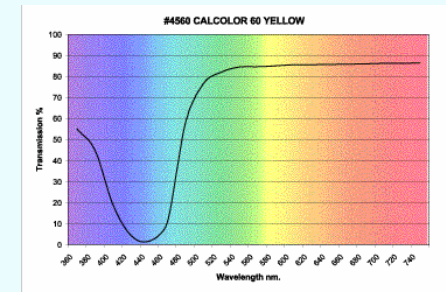
Magenta



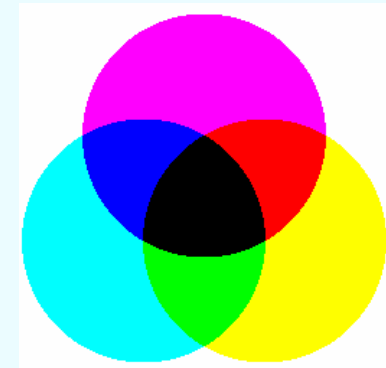
Ciano

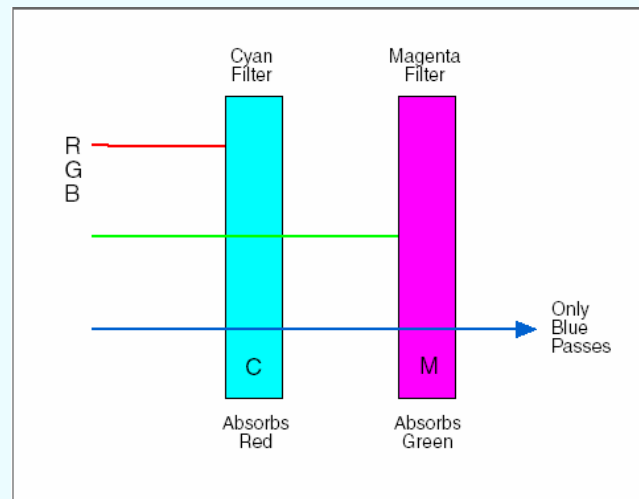
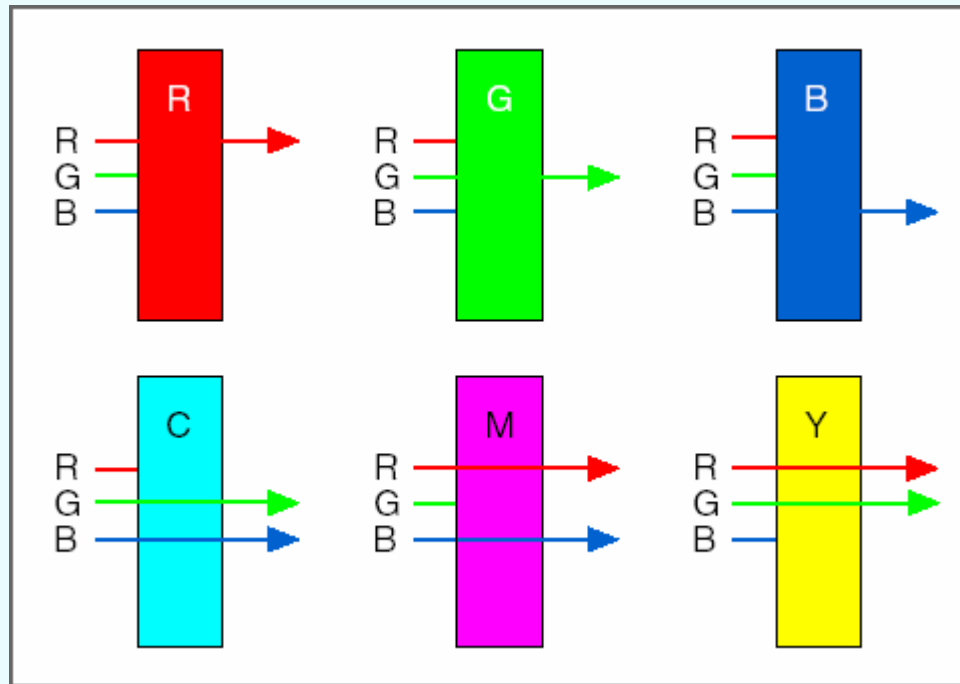


Amarelo

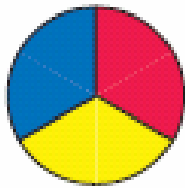
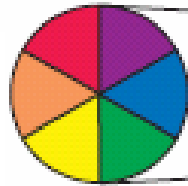


Subtracção

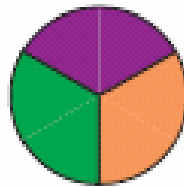




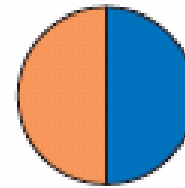
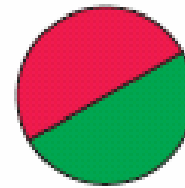
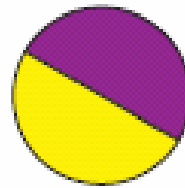
1. Cores de pigmentos



Cores primárias

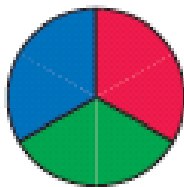
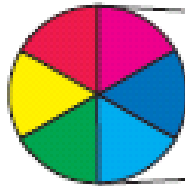


Cores secundárias

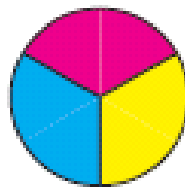


Cores opostas

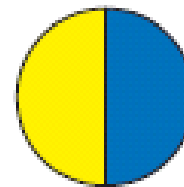
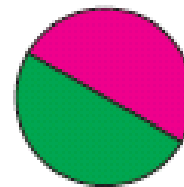
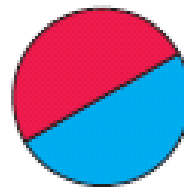
2. Cores espectrais



Cores primárias

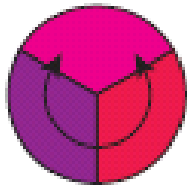


Cores secundárias

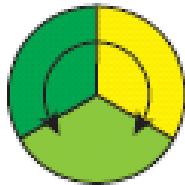


Cores opostas

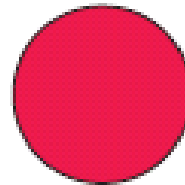
3. Cores especiais



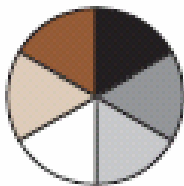
Magenta:
“shocking”



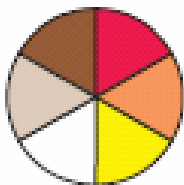
Verde fluorescente:
“alarmante”



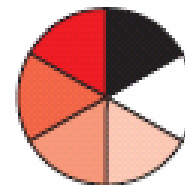
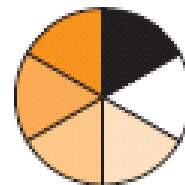
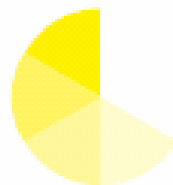
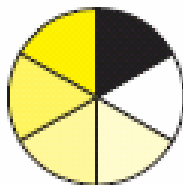
Vermelho:
“atenção”



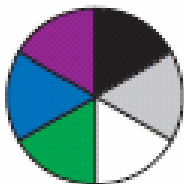
Cores neutras: funcionam bem com qualquer cor



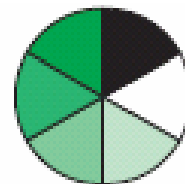
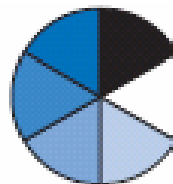
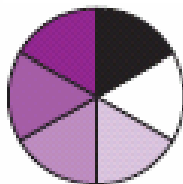
Cores quentes



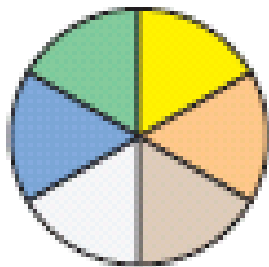
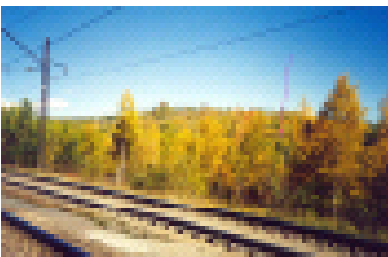
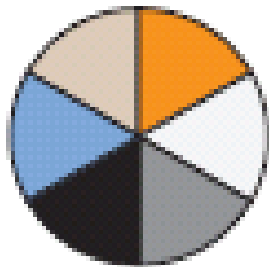
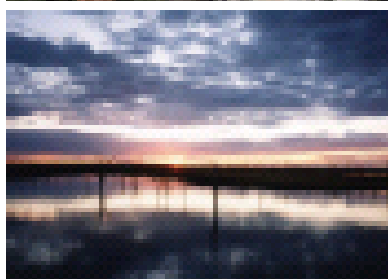
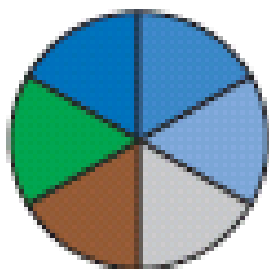
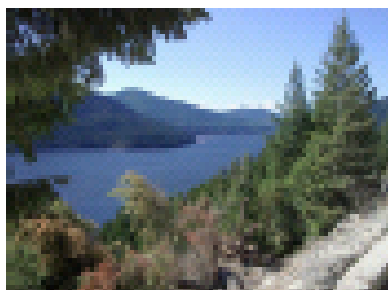
Cores quentes monocromáticas



Cores frias



Cores frias monocromáticas



Curiosidades

