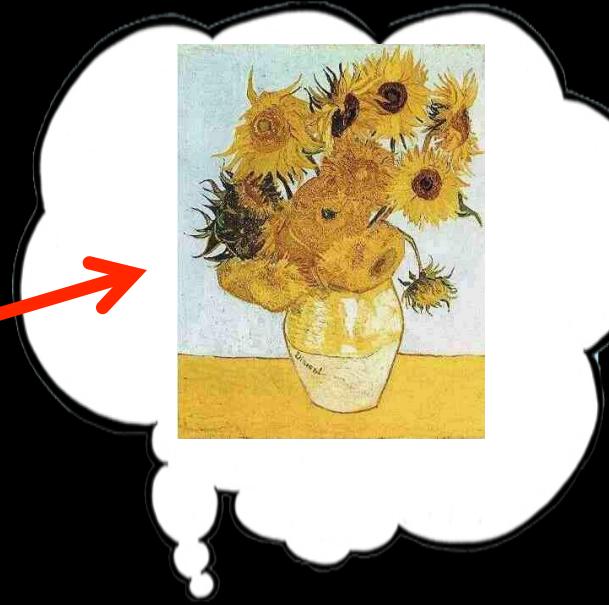
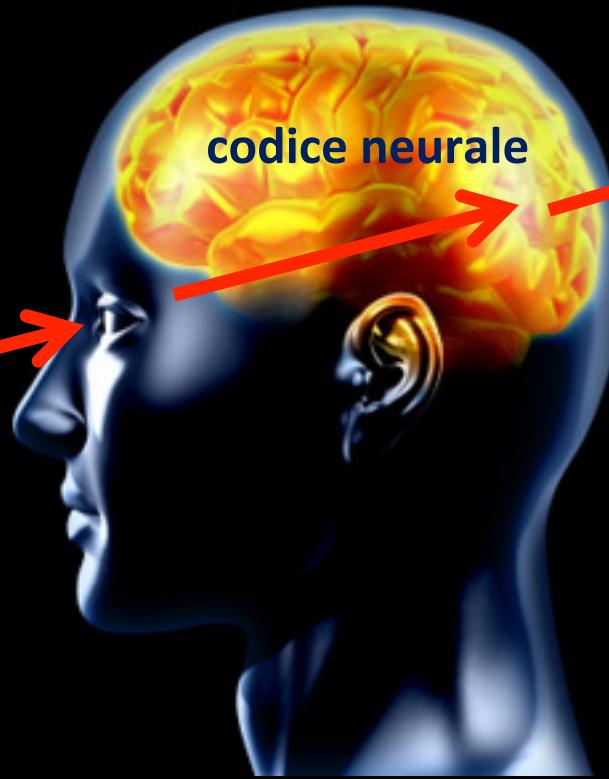
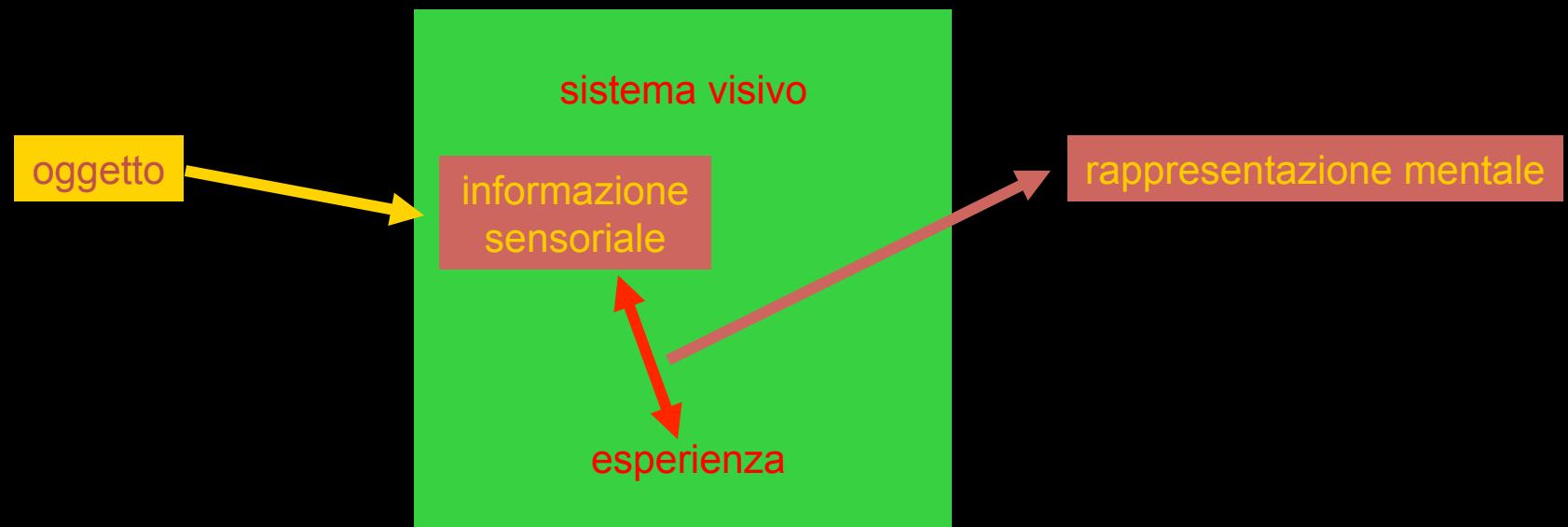
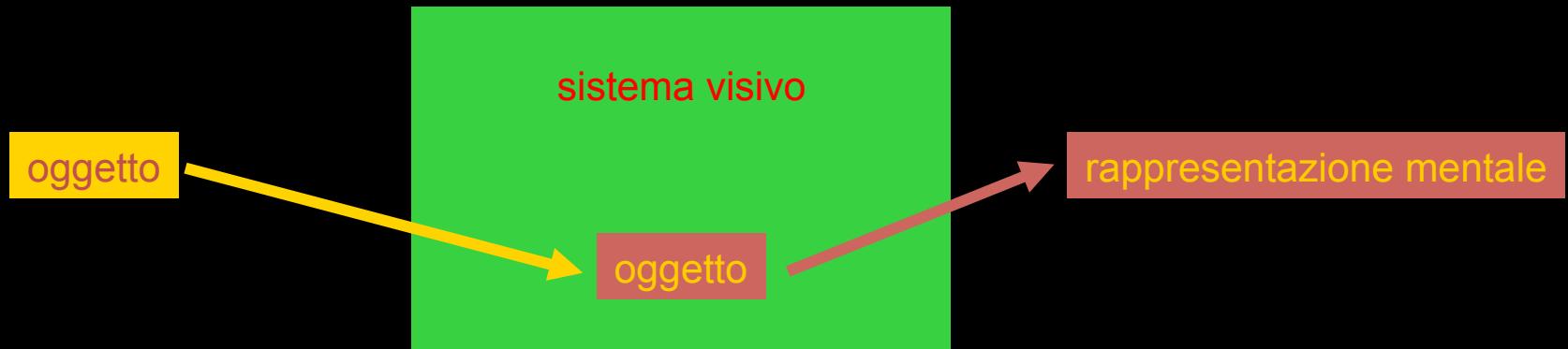


Rappresentazione mentale dell'universo

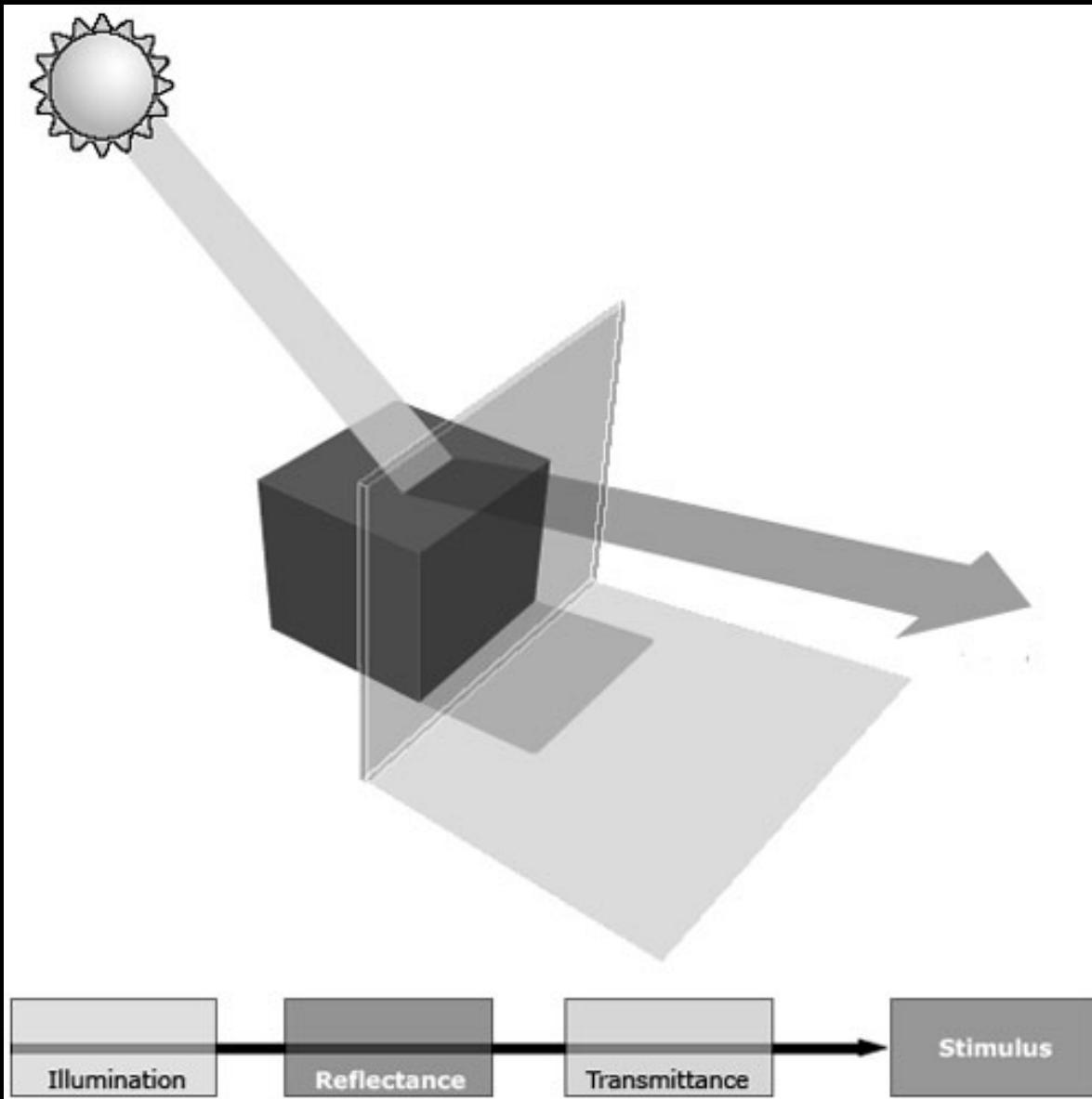




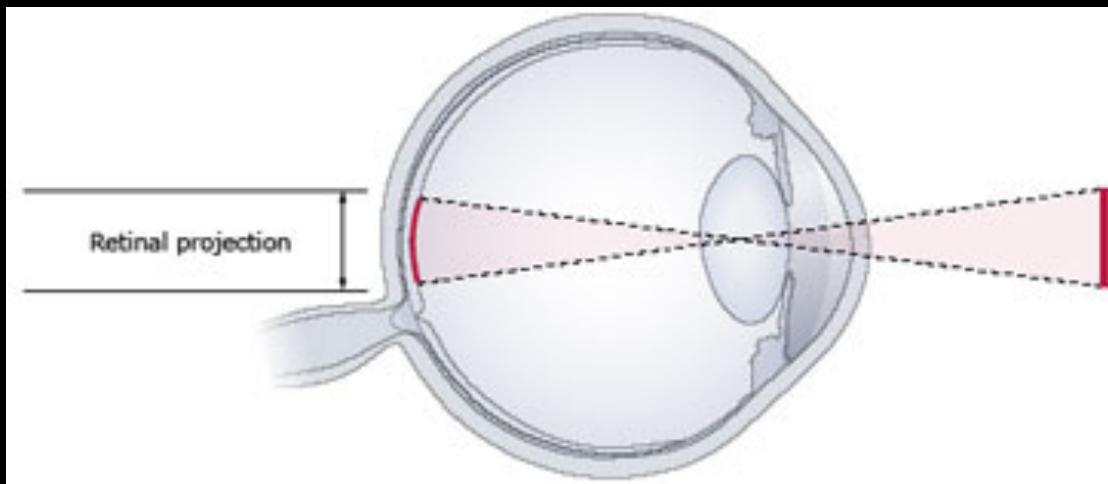
oggetto/stimolo



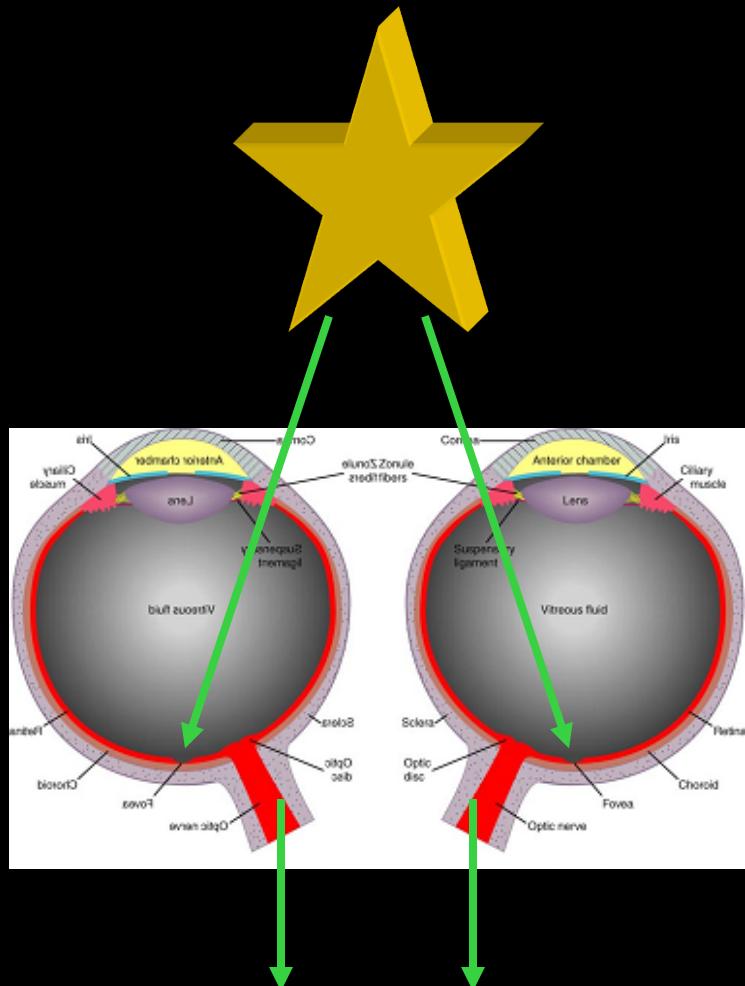
L'informazione sensoriale visiva è ambigua - 1



L'informazione sensoriale visiva è ambigua - 2



L'informazione sensoriale visiva è ambigua - 3



sistema visivo

I'immagine dell'oggetto raccolta dalla retina è:

doppia

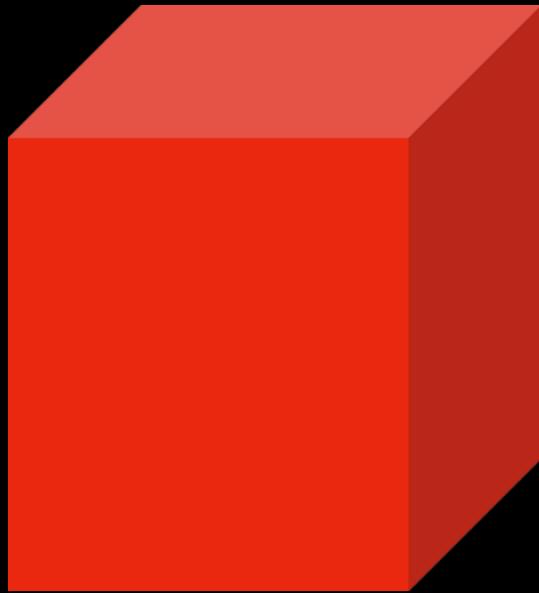


capovolta



bidimensionale





qualia

Forma (cubo)
Colore (rosso)

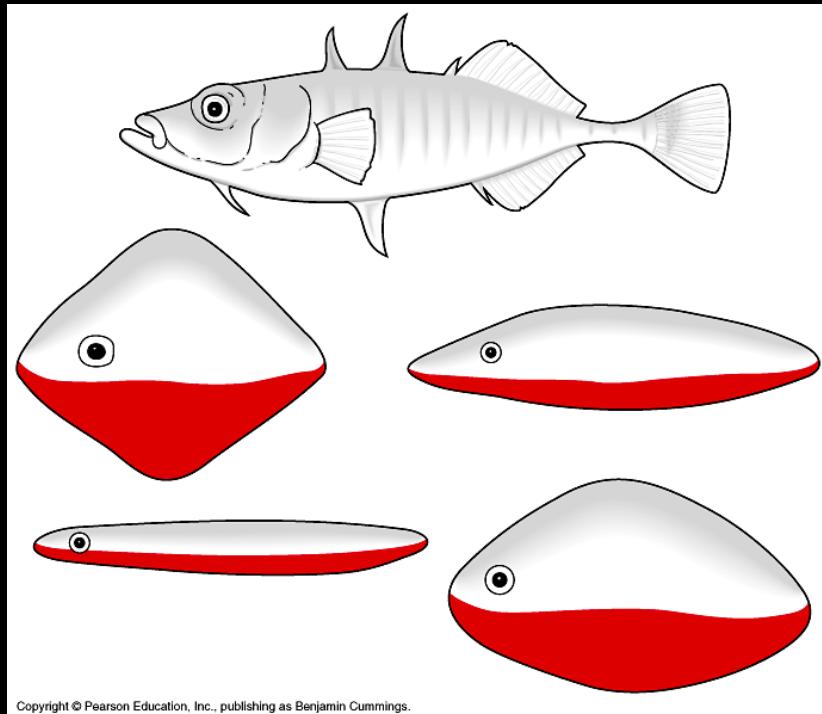
Irrevocabilità dell'input

Flessibilità dell'output

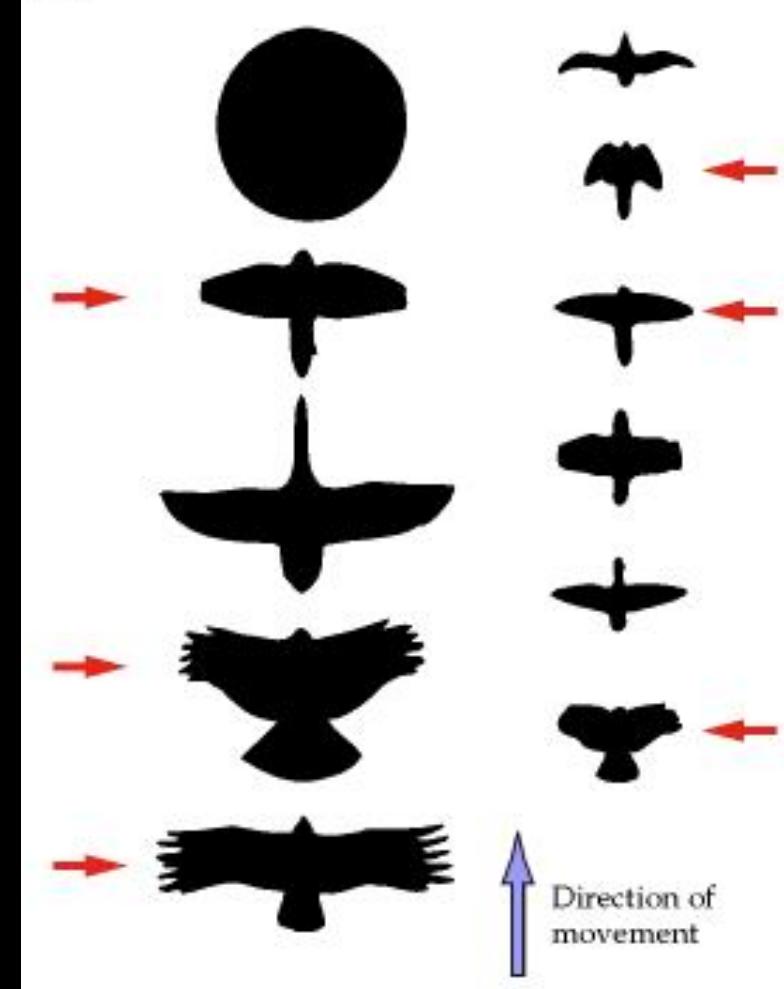
Rappresentazione mantenuta nella memoria di lavoro







Actual colour & shape	Male stickleback: red belly, bluish-white back	Female stickleback: greyish-green body, swollen silvery belly
Model characteristics	Red belly	Swollen belly
Reaction of males to model	Attack	Court



Niko Tinbergen



FAP (Fixed Action Pattern)

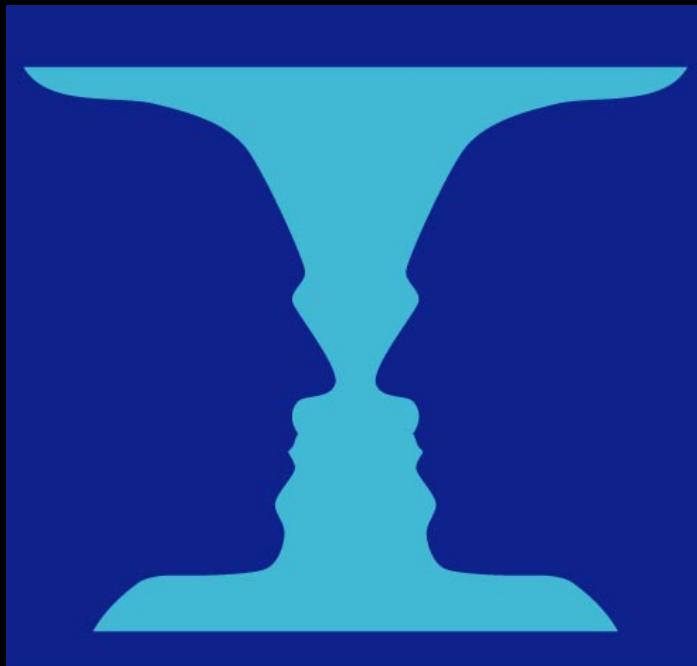


*“if you smile at me I will understand ‘cause
that is something everybody everywhere does
in the same language”*

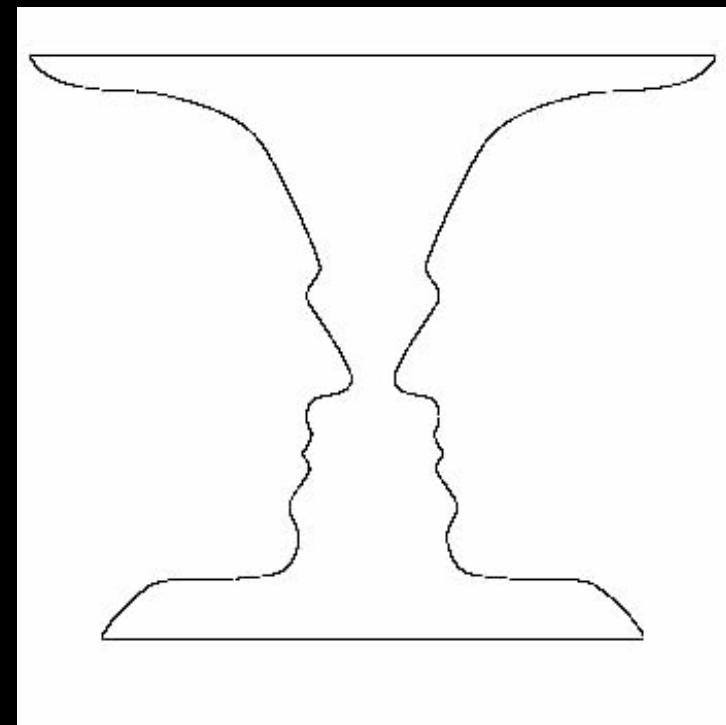
Irenäus Eibl Eibesfeldt

Vedere le forme

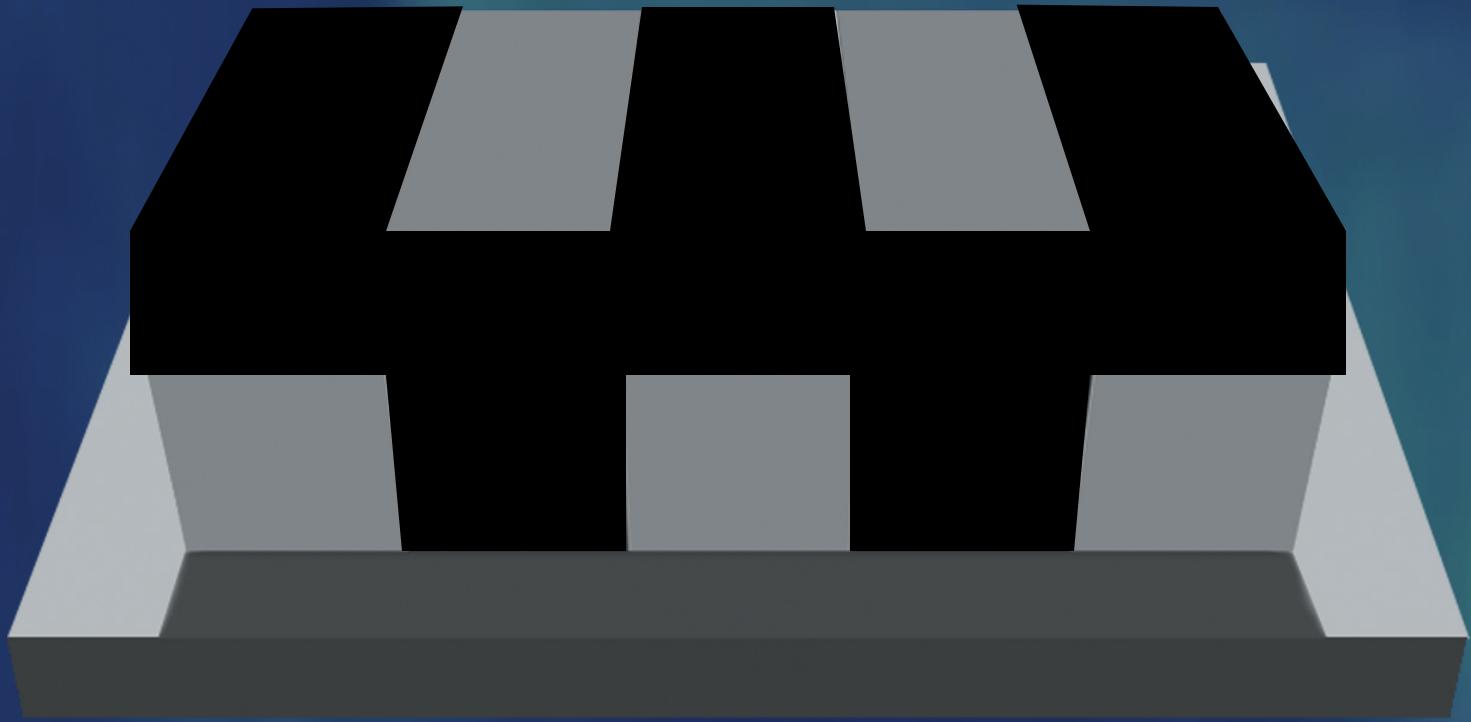




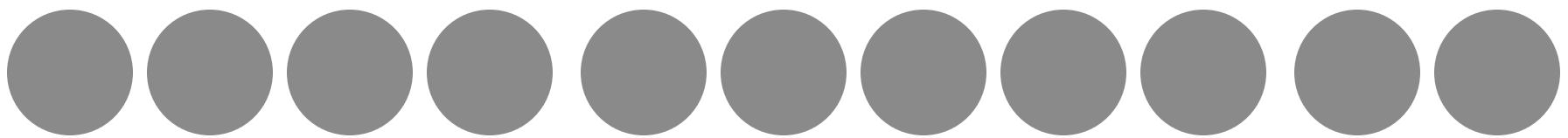
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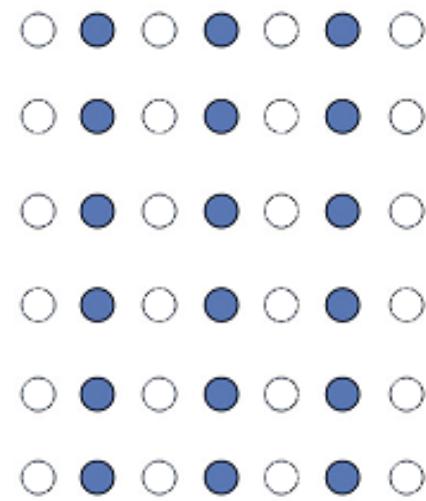
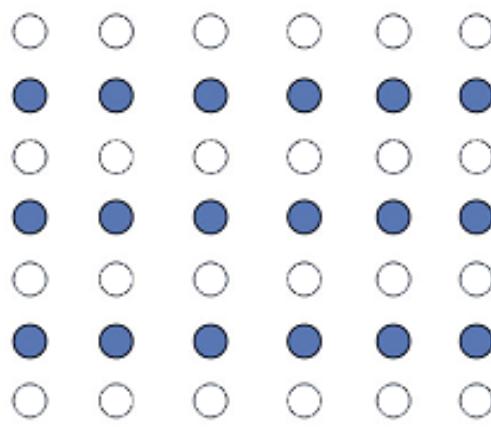
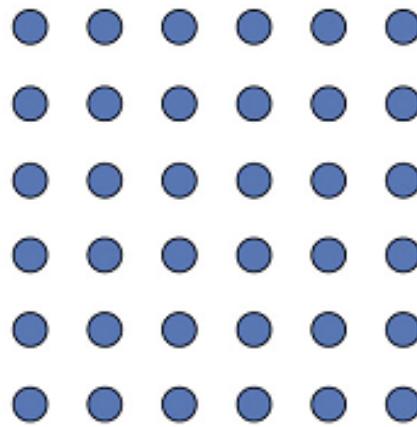


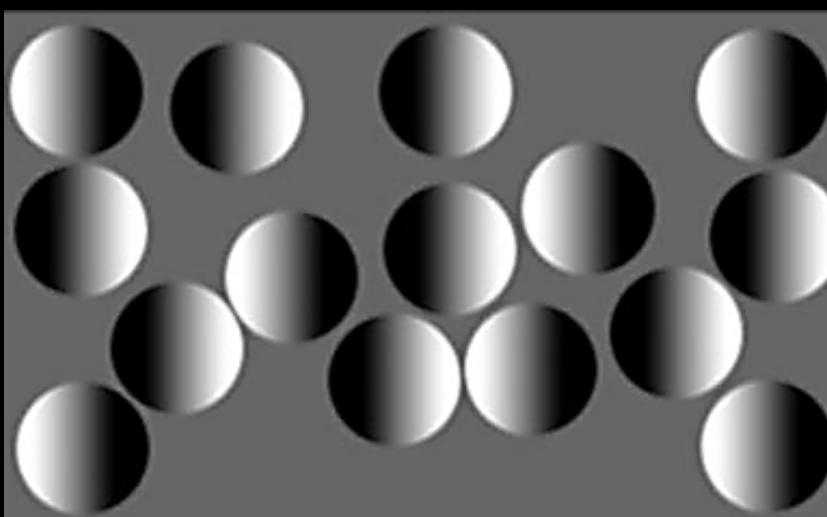
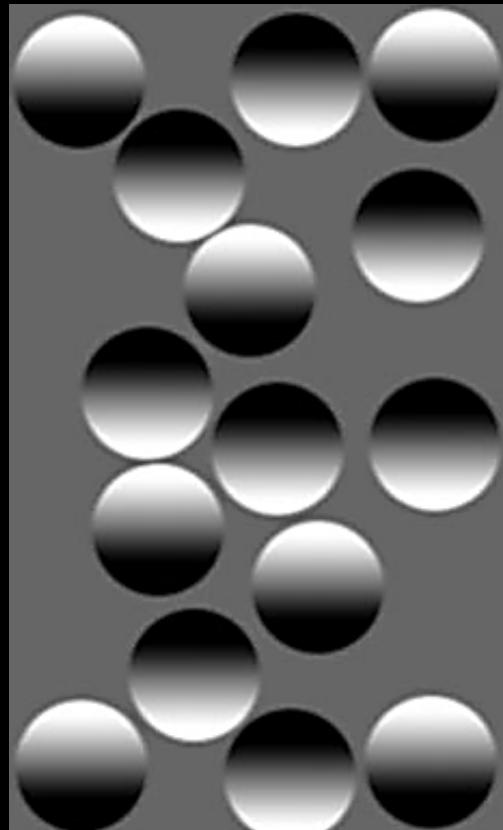
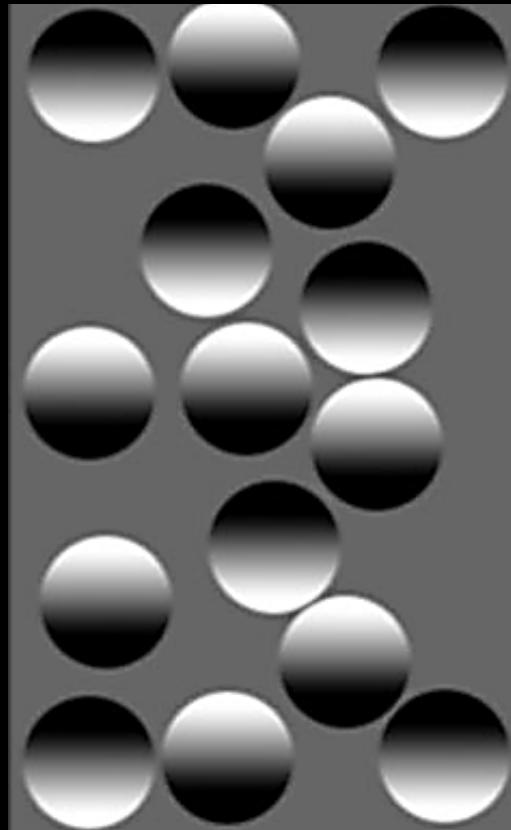




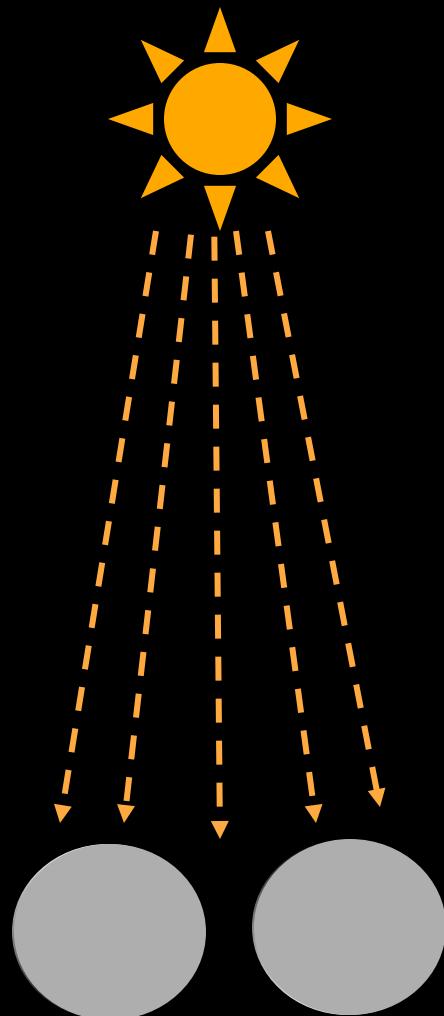
© Dale Purves and R. Beau Lotto 2002

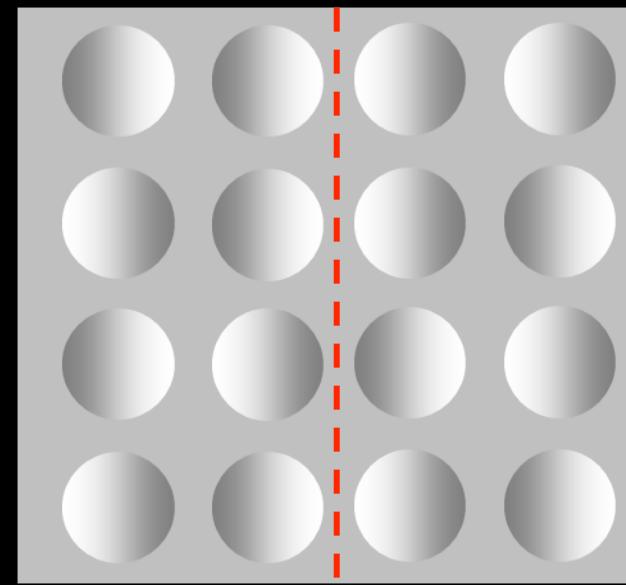
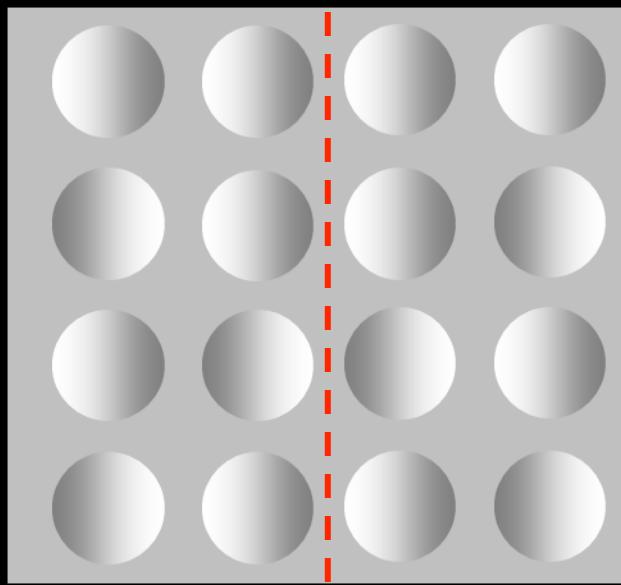
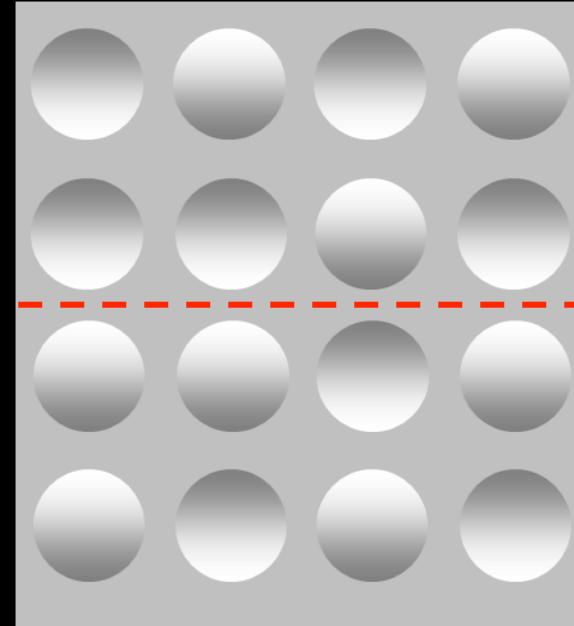
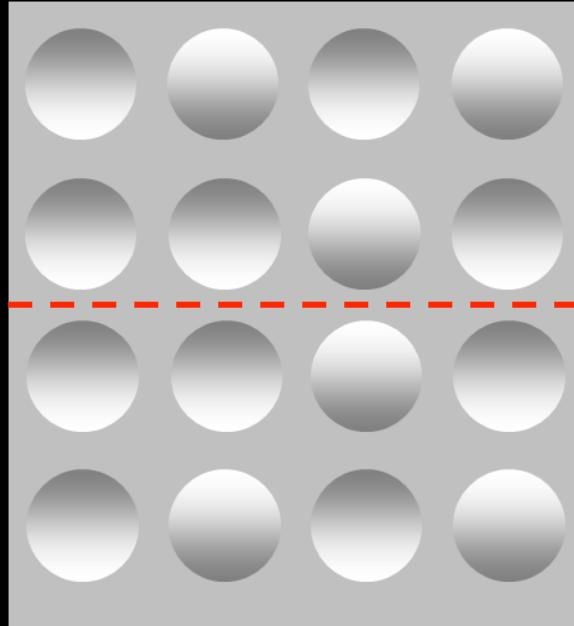






Vilayanur
Ramachandran







Vedere i colori



quantità di luce



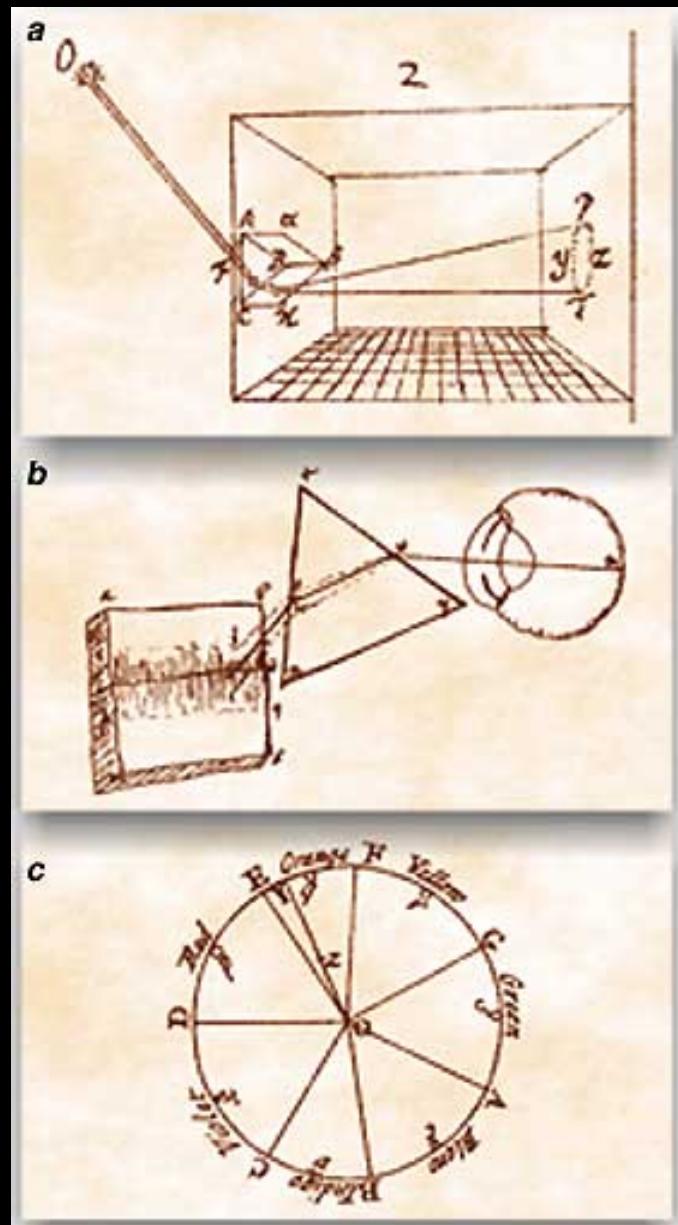
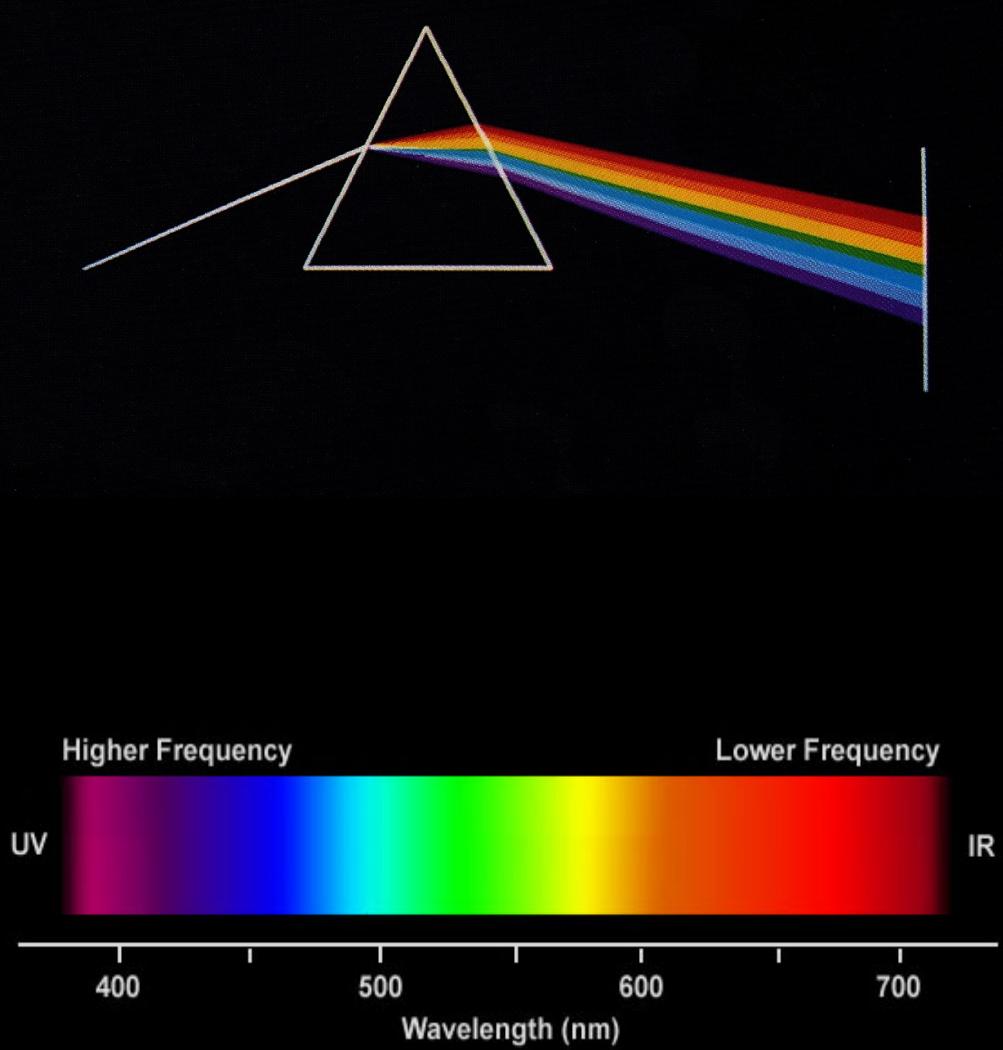
qualità della luce

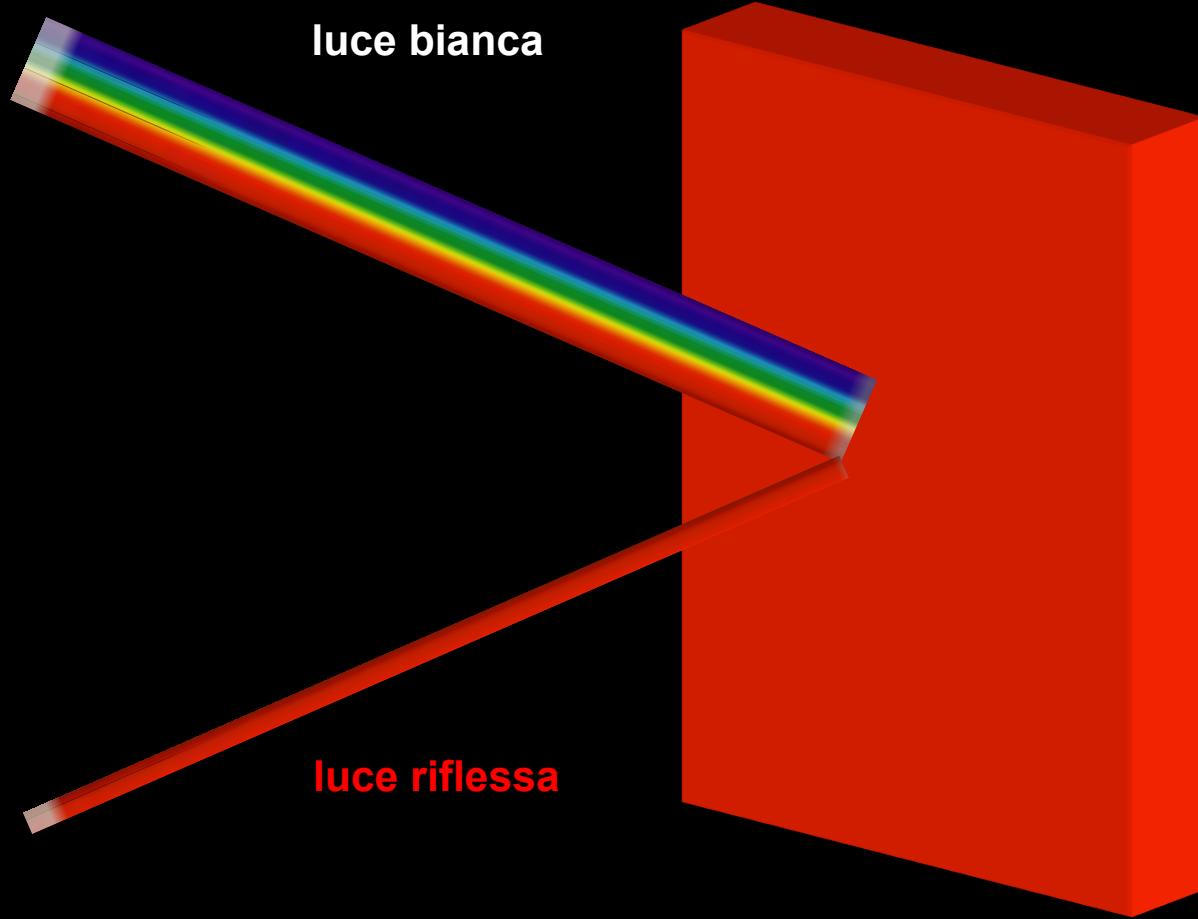


A



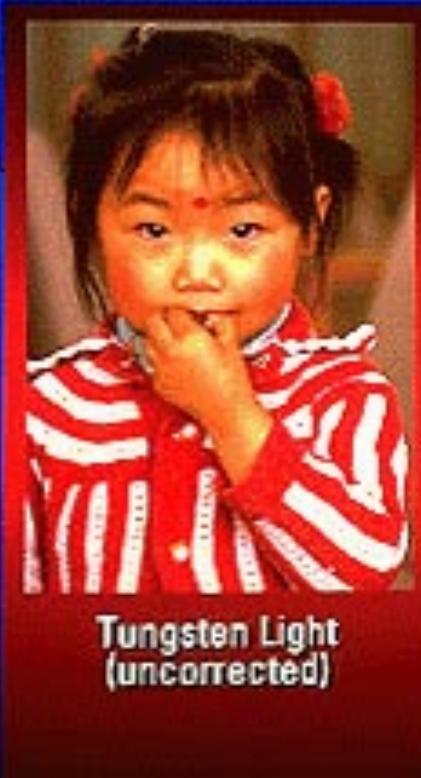
Visione dei colori



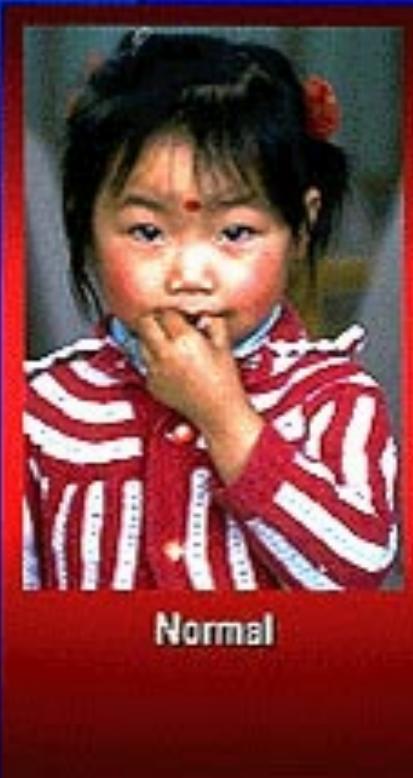


The Color of Light

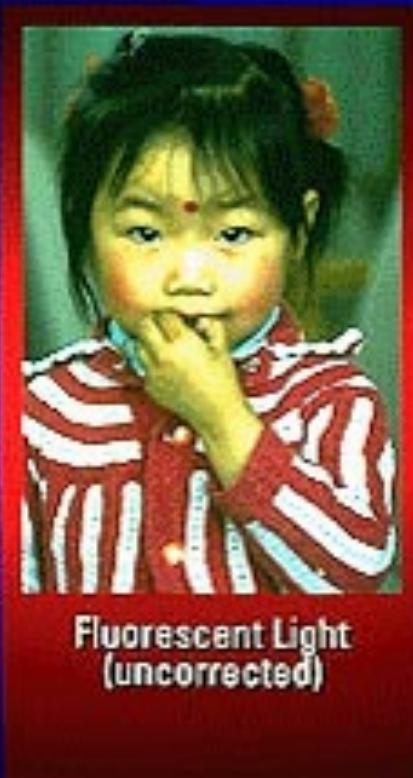
DAYLIGHT FILM



Tungsten Light
(uncorrected)



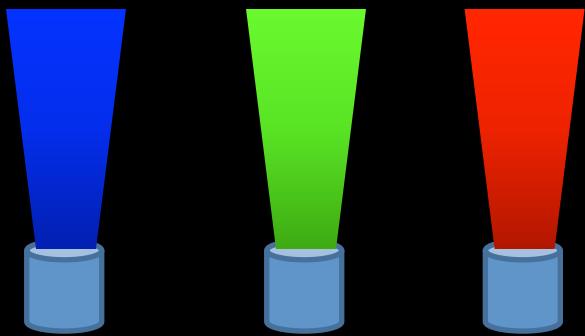
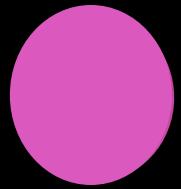
Normal

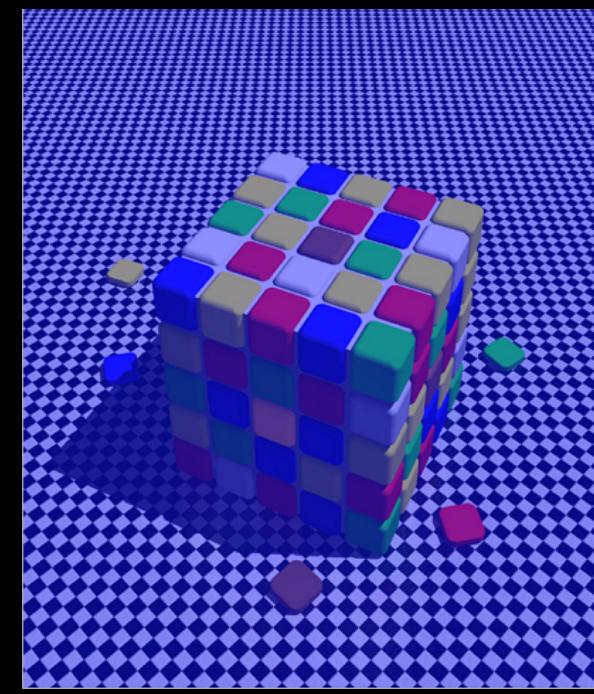
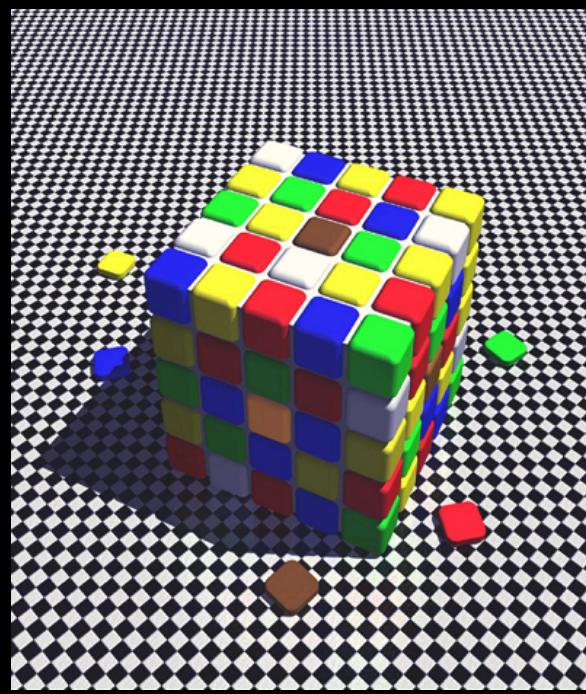
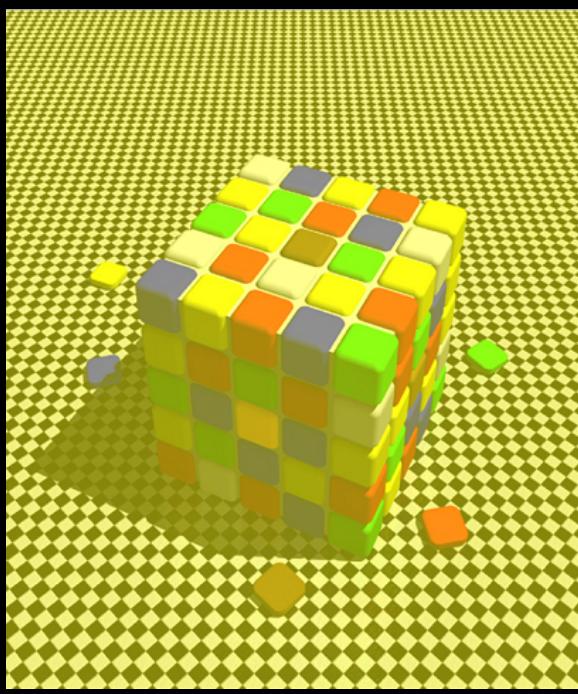


Fluorescent Light
(uncorrected)

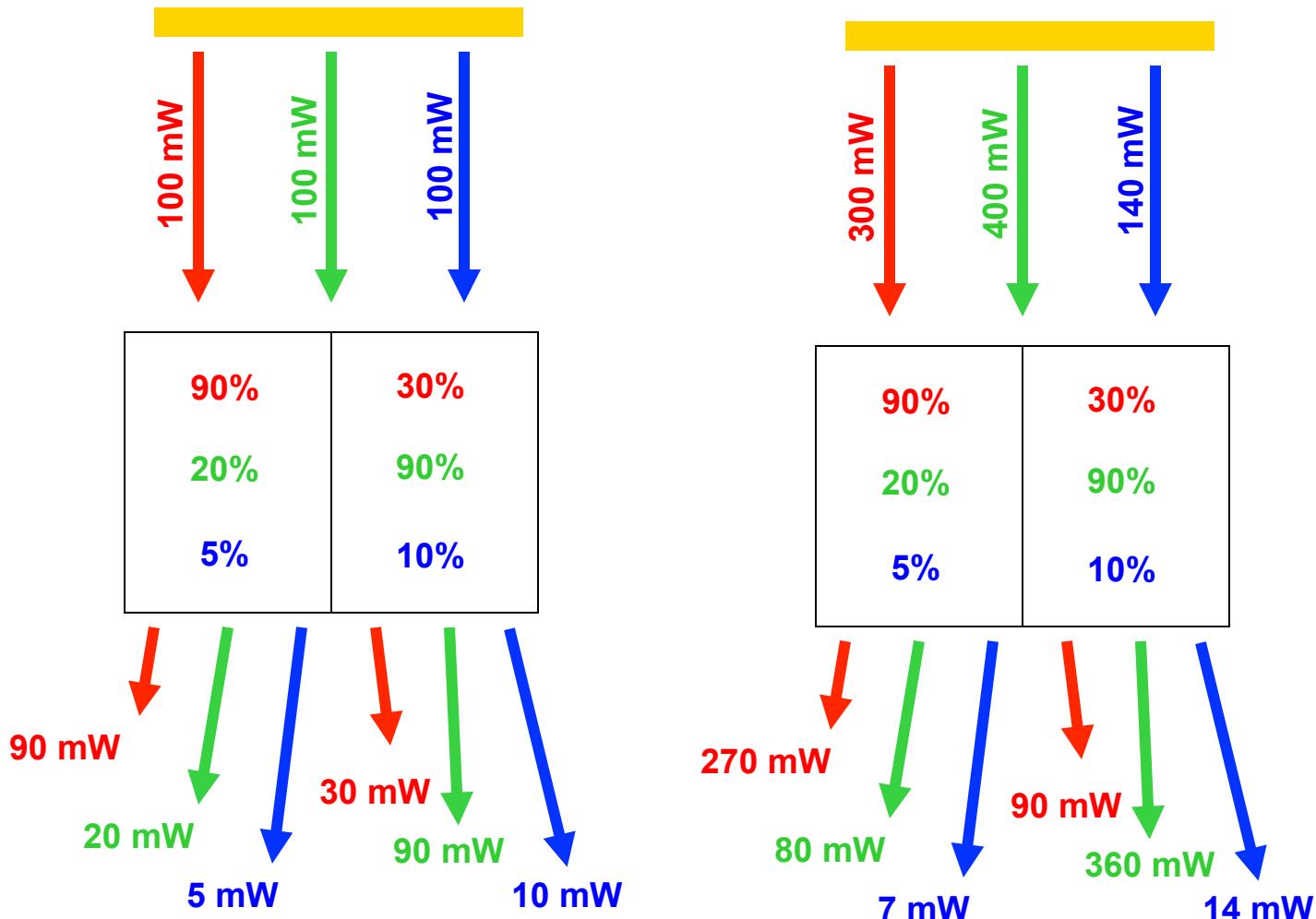


Edwin Land





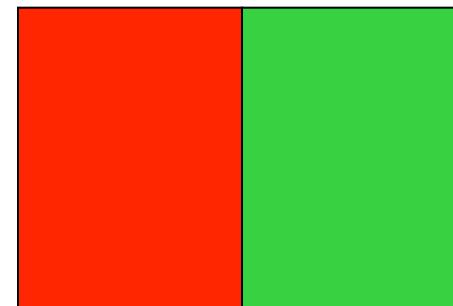
sorgente luminosa

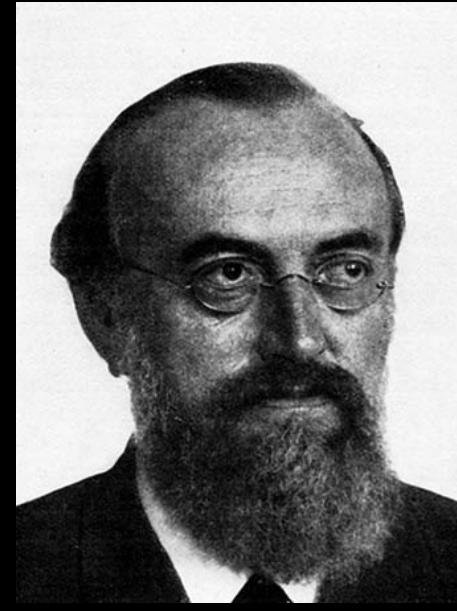


$$90:30 = 270:90 = 3:1$$

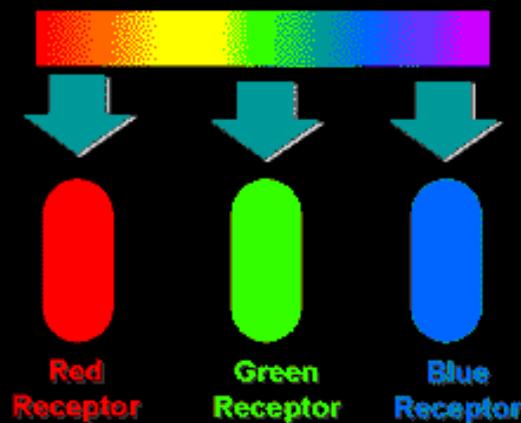
$$20:90 = 80:360 = 2:9$$

$$5:10 = 7:14 = 1:2$$

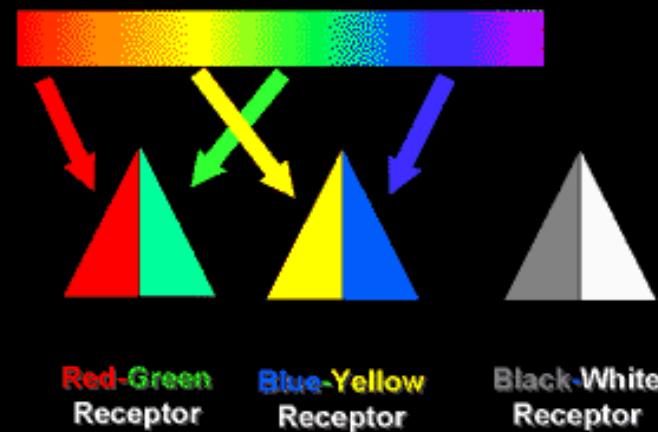


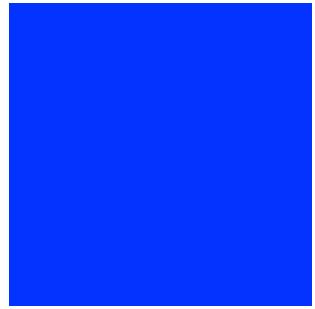
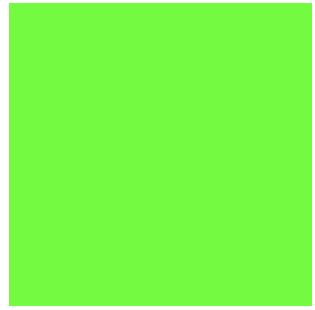


Young-Helmholtz (Trichromatic) Theory



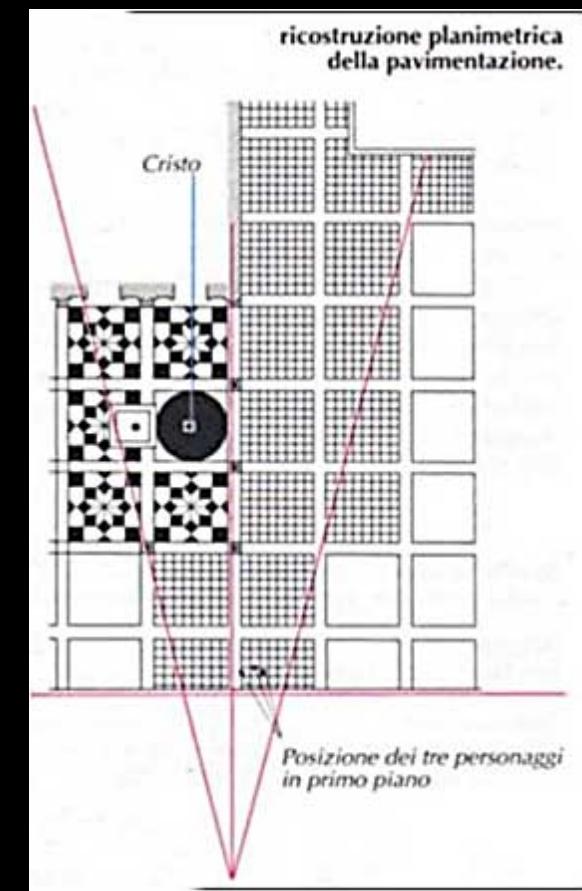
Hering-Hurvich (Opponent-Process) Theory

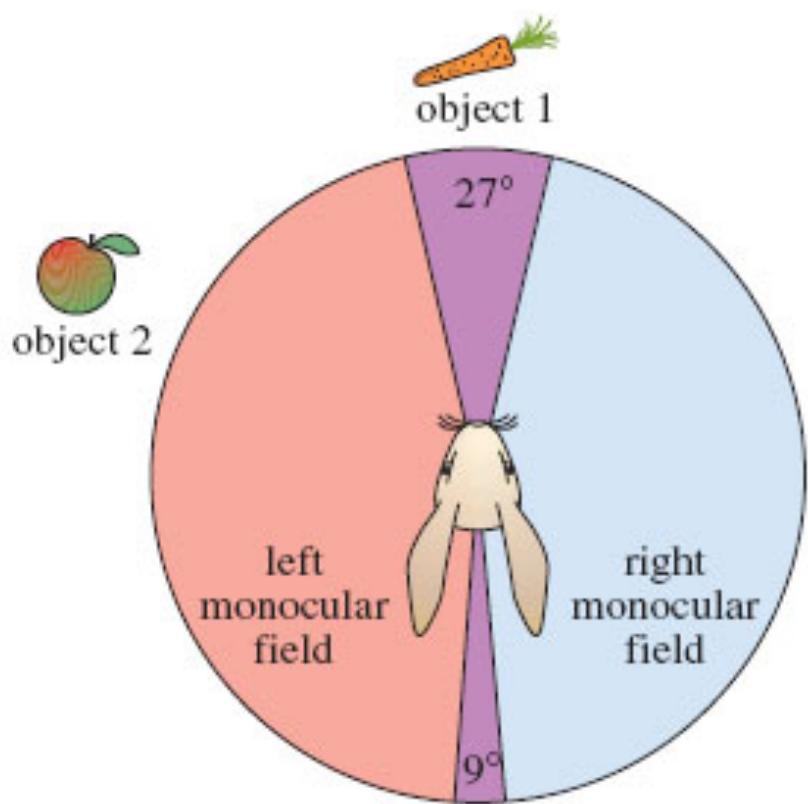




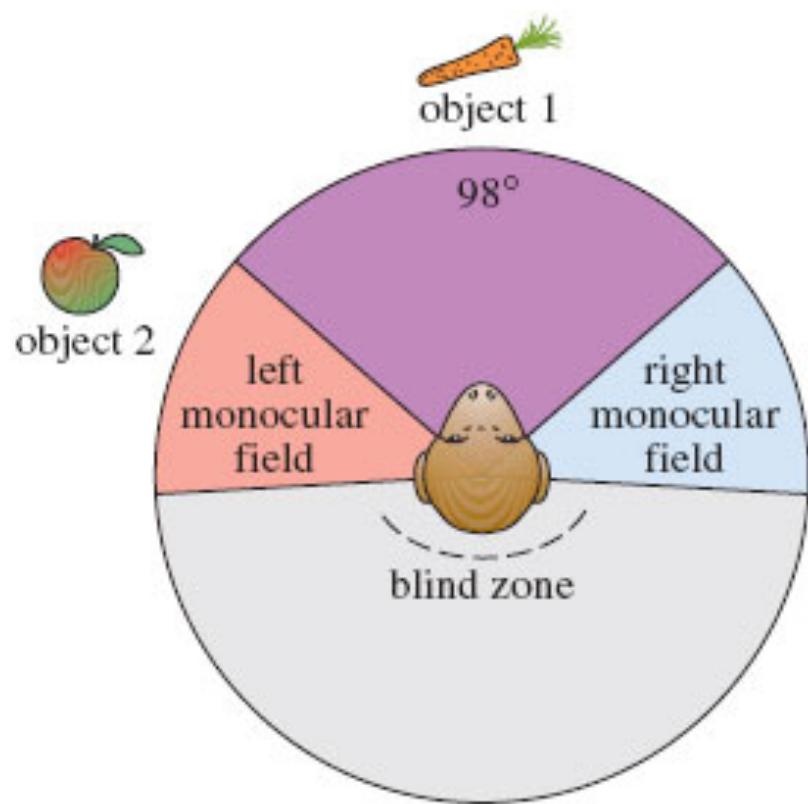


Vedere a tre dimensioni

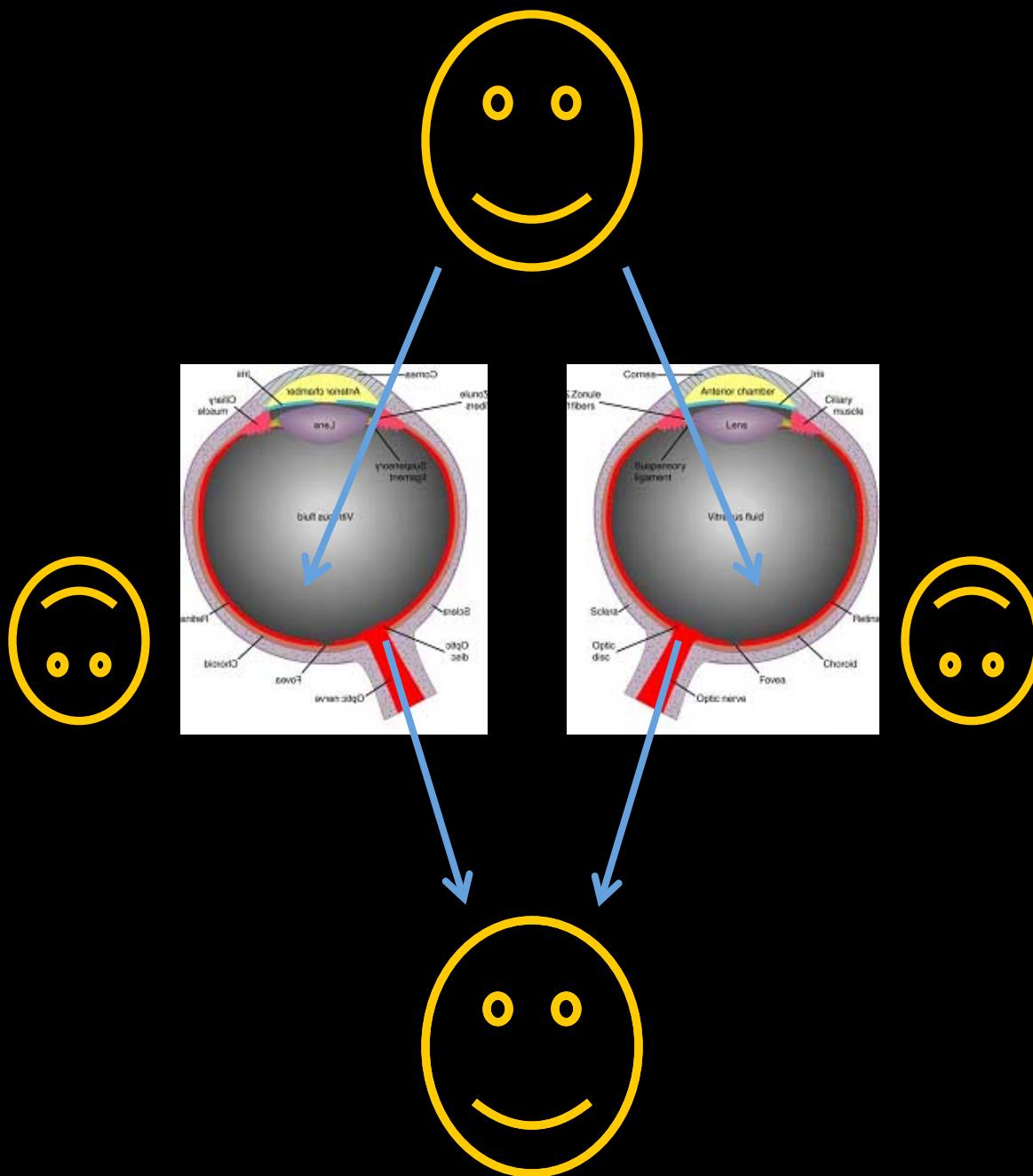


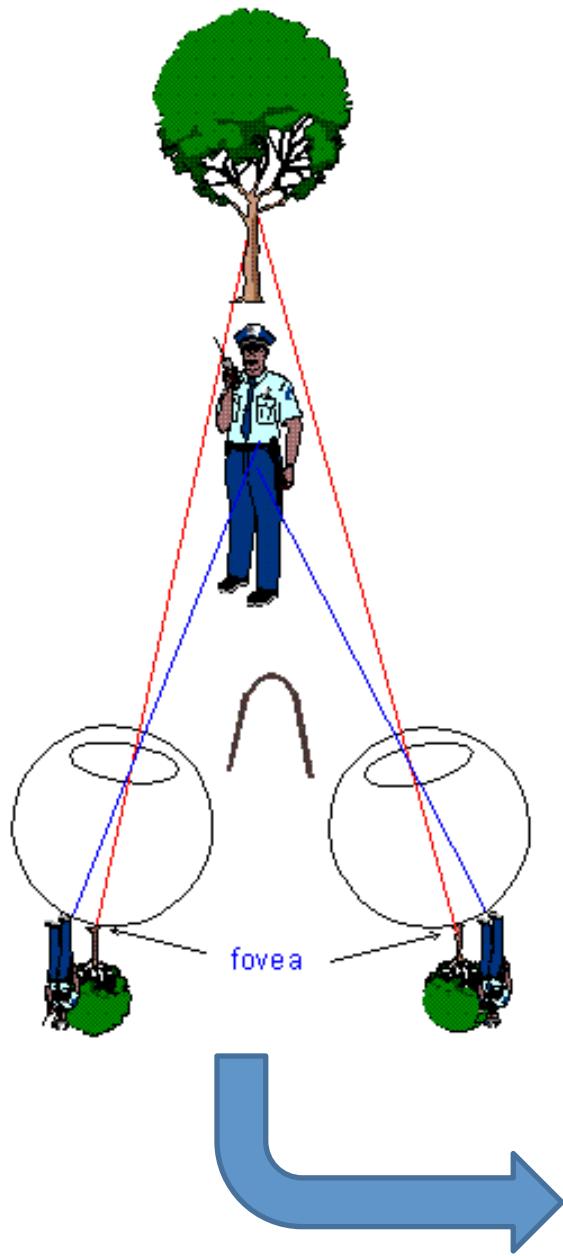


(a) rabbit



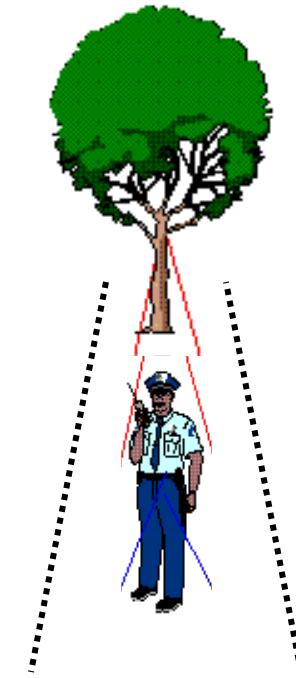
(b) monkey





disparità
binoculare

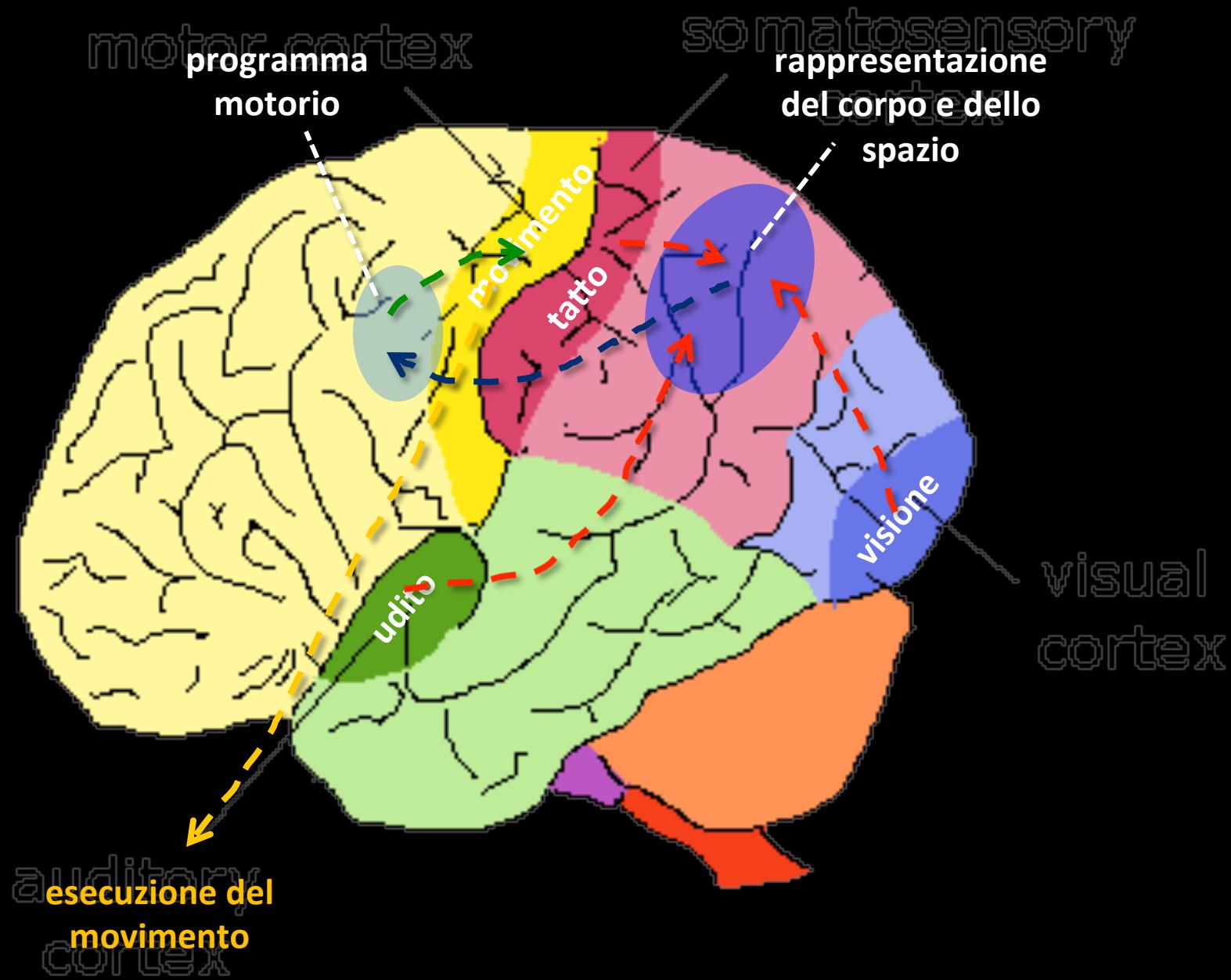
rappresentazione mentale



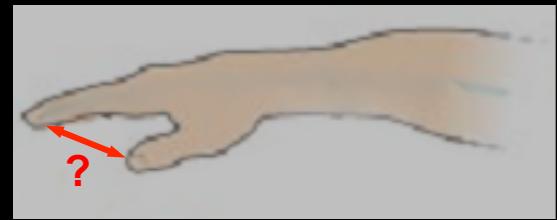
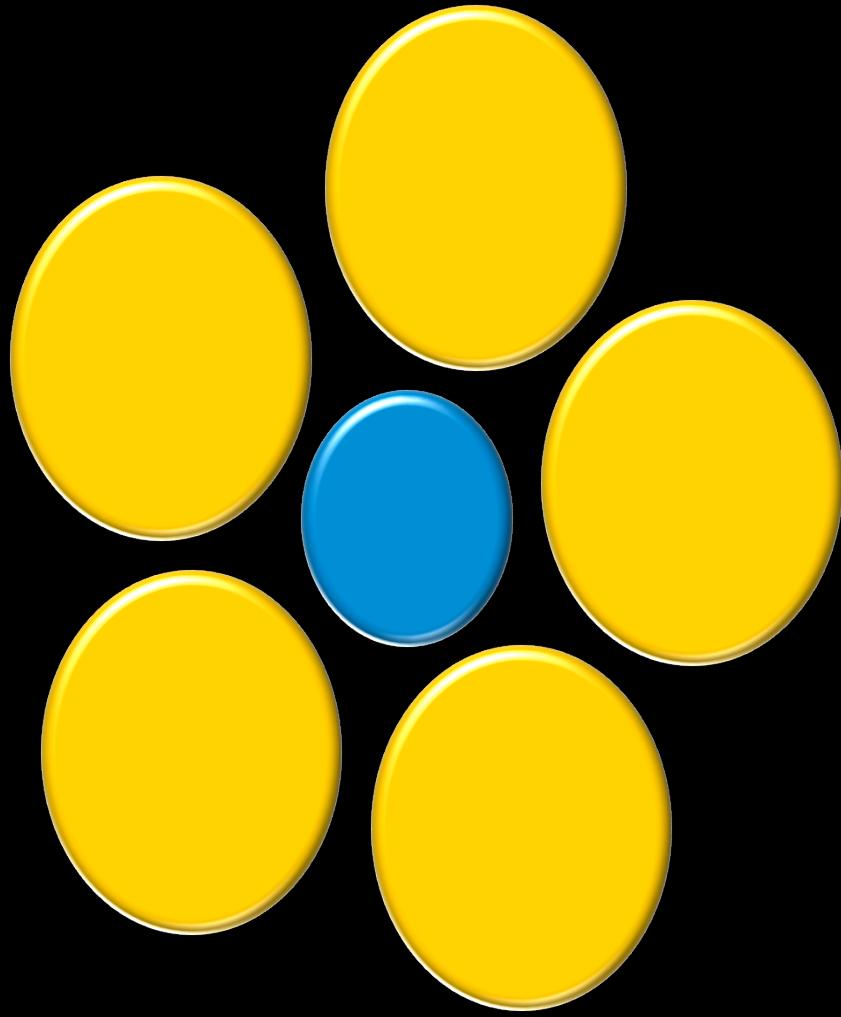
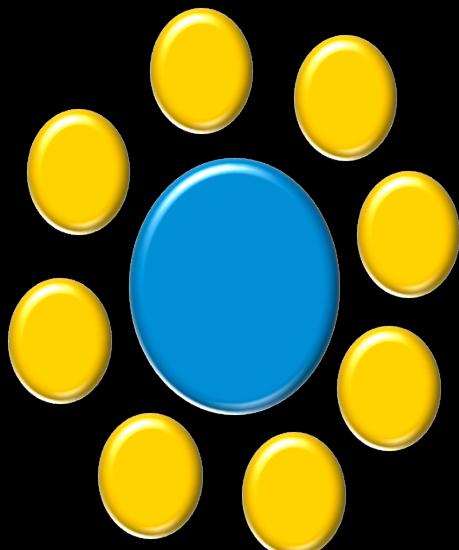


Vedere per interagire









via dorsale
come?



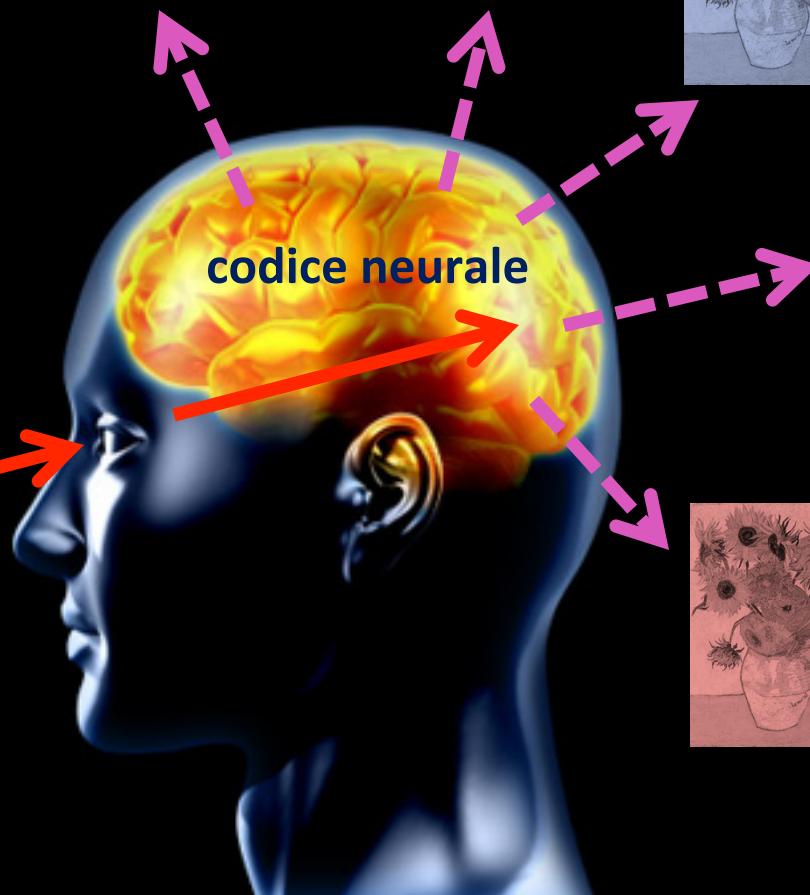
corteccia
visiva



via ventrale
cosa?



rappresentazioni
mentali
multiple



oggetto/stimolo

La rappresentazione cosciente della realtà è

- **Obbligatoria**
- **Derivata da un numero limitato di informazioni sensoriali**
- **Costruita decodificando le informazioni sensoriali attraverso parametri (preconoscenze) interne**
- **Costruita su base probabilistica**
- **Mantenuta nella memoria di lavoro per permettere la scelta di una risposta non automatica e variabile**
- **Multipla per rispondere a diverse necessità funzionali**

That the goal of behaviour is maximizing genetic fitness does not mean to say that the origins of that behaviour (in terms of its development in the individual) are genetic. The capacity to make the decision to behave in a certain way may be genetic, but that does not mean that the decision to act in a particular way is itself genetically determined. It is the capacity (to all intents and purposes, the brain) that allows the organism to evaluate the costs and benefits of alternative behavioural possibilities, and so to make its choice on the basis of a free decision after weighing up its options.

Robin Dunbar (2004) The Human Story