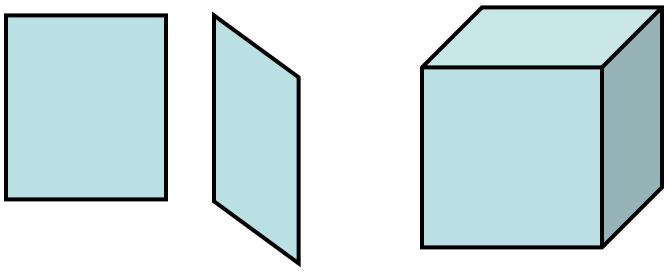
Univerzitet u Beogradu
Filozofski fakultet
Odeljenje za psihologiju

Slobodan Marković

VIZUELNA PERCEPCIJA

Drugo predavanje: OPAŽANJE OBJEKATA I SCENA (exp)

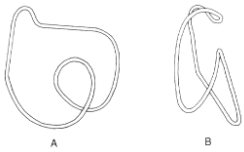
KONSTANTNOST

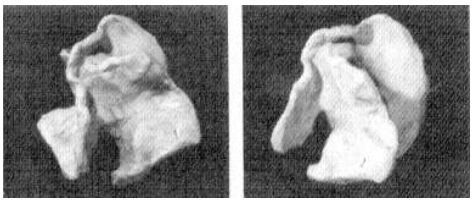


KONSTANTNOST

Rock & Di Vita, 1987; Rock, Di Vita & Barbeito, 1981

Konstantnost kompleksnih nepoznatih objekata

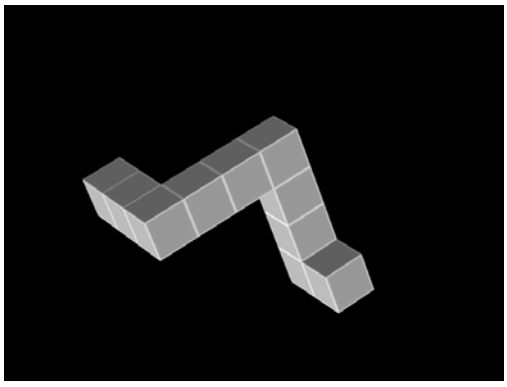




KONSTANTNOST

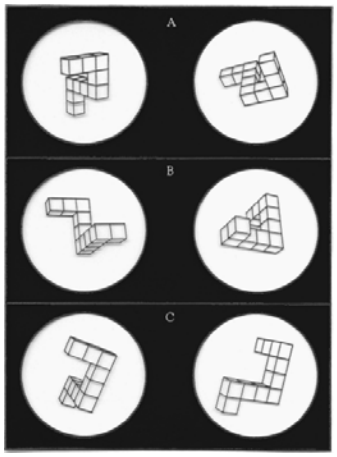
Shepard & Metzler, 1971:

Mentalna rotacija složenih formi



KONSTANTNOST

Shepard & Metzler, 1971.

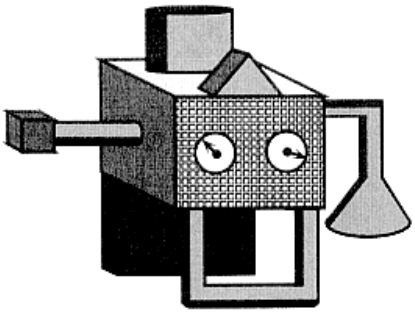


Rotacija u ravni

Rotacija u dubini

Refleksija +
rotacija u dubini

CELINA - DELOVI



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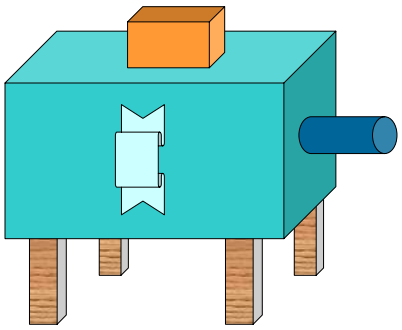
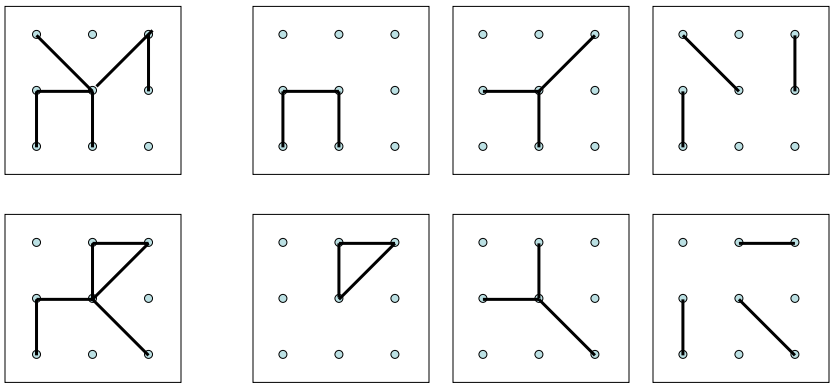


CELINA - DELOVI

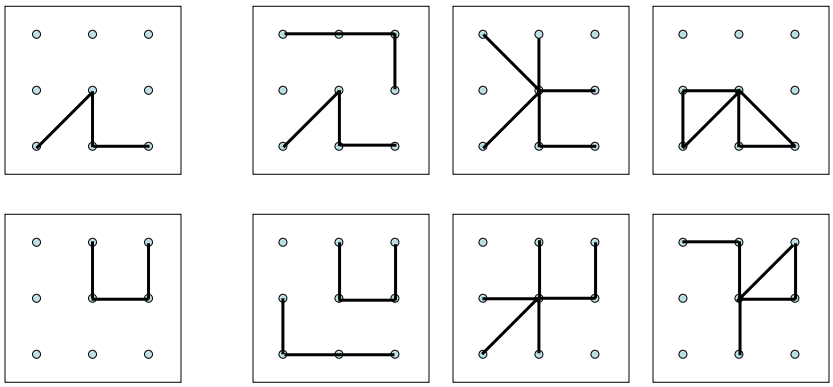
Palmer, 1977: Same-figure stimuli



CELINA | **Dobra forma** | Umereno dobra forma | **Loša forma**

CELINA - DELOVI

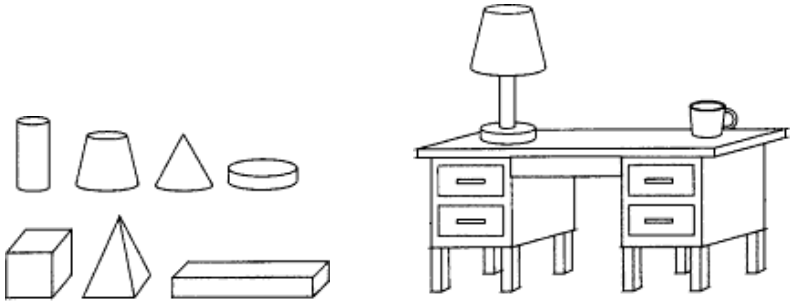
Palmer, 1977: Same-parts stimuli



DEO | **Dobra forma** | Umereno dobra forma | **Loša forma**

CELINA - DELOVI

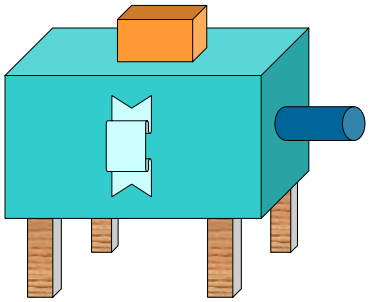
David Marr, 1982: Shape primitives



A B

CELINA - DELOVI

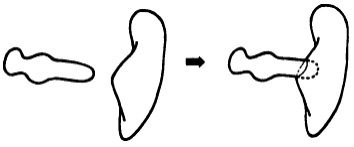
David Marr, 1982: Shape primitives



CELINA - DELOVI

Donald Hoffman & Whitman Richards, 1984:

Boundary rules

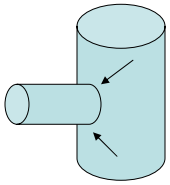


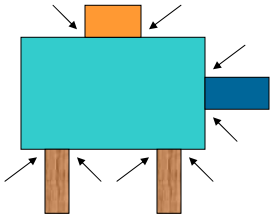
Transversality regularity

CELINA - DELOVI

Donald Hoffman & Whitman Richards, 1984:

Boundary rules



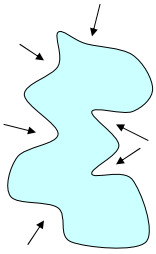


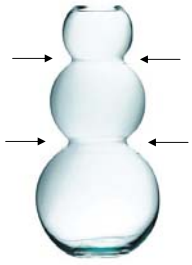
Transversality regularity ⇒ **Concave discontinuity rule**

CELINA - DELOVI

Donald Hoffman & Whitman Richards, 1984:

Boundary rules



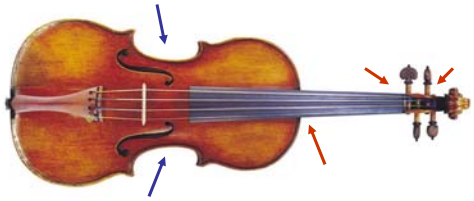


Smooth surfaces ⇒ **Deep (maximal) concavity rule**

CELINA - DELOVI

Donald Hoffman & Whitman Richards, 1984:

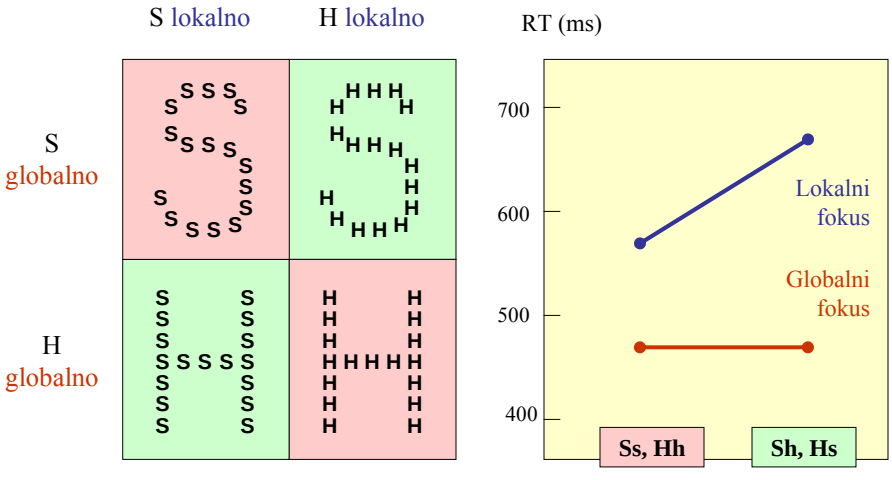
Boundary rules



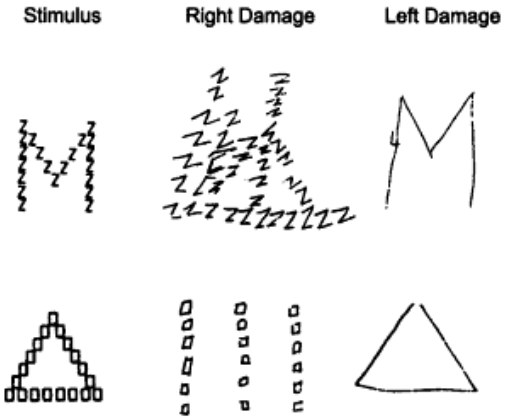
Deep (maximal) concavity rule **Concave discontinuity rule**

GLOBALNO - LOKALNO

David Navon, 1977



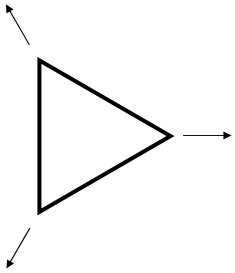
GLOBALNO - LOKALNO



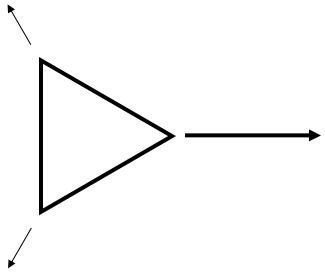
GLOBALNO - LOKALNO

Palmer, 1980, 1989:

Configural orientation effects

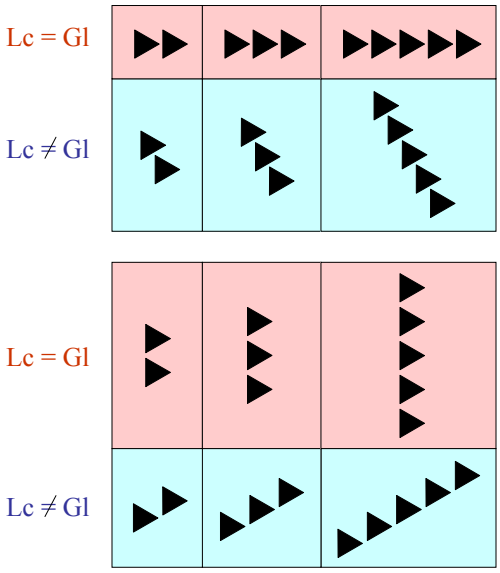


Attneave 1968.

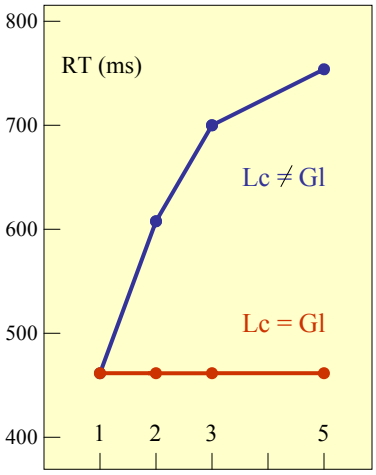


Marković,1994.

GLOBALNO - LOKALNO



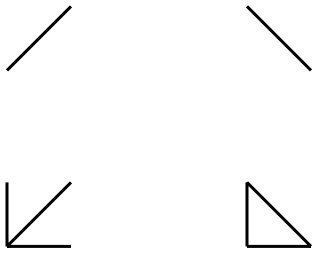
Palmer, 1980, 1989:
Configural orientation effects



GLOBALNO - LOKALNO

Pomerantz, Sager & Stover, 1977:

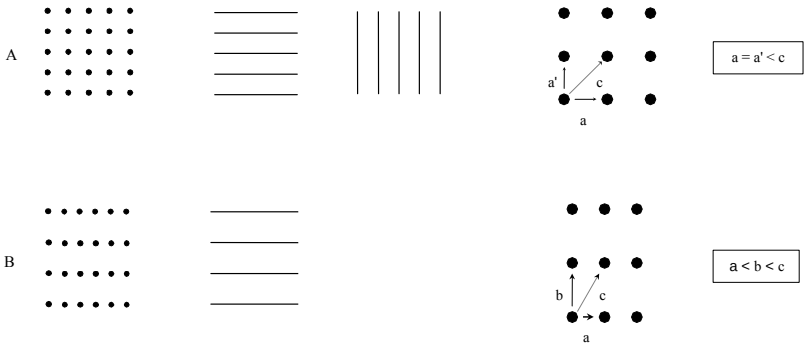
Configural superiority effect



PERCEPTIVNO GRUPISANJE

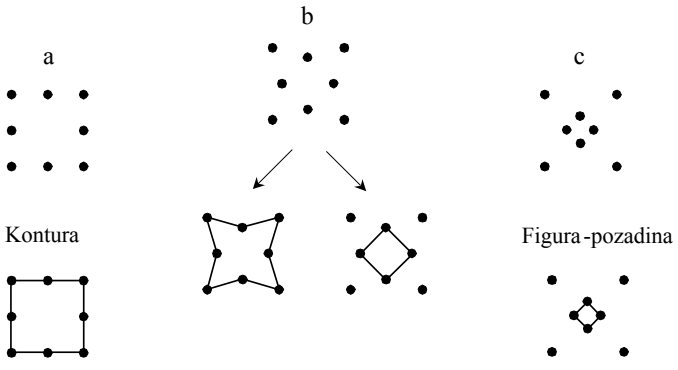
Kubovy & Wagemans, 1995:

Orientational multistability



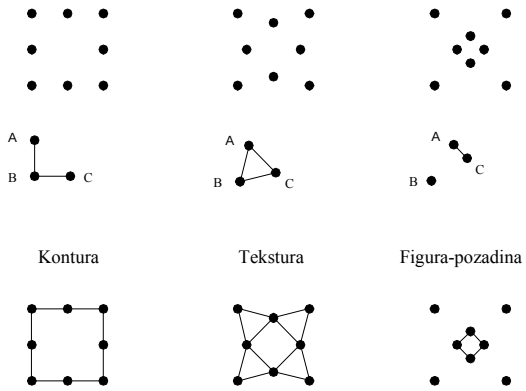
PERCEPTIVNO GRUPISANJE

Marković,1999.



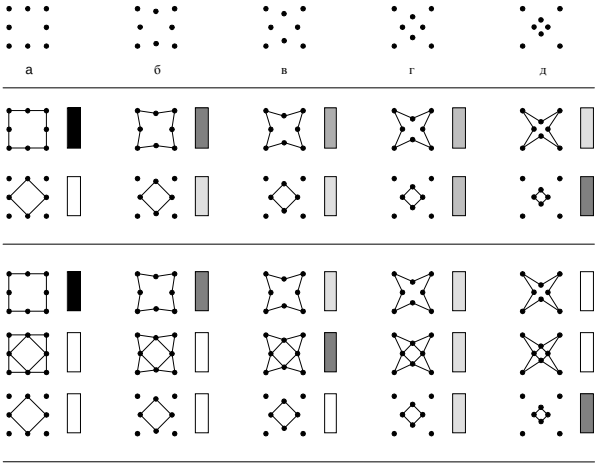
PERCEPTIVNO GRUPISANJE

Marković,1999.



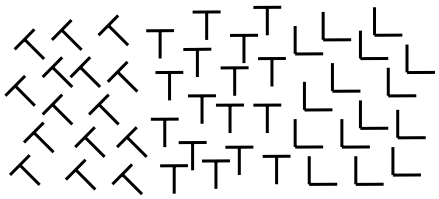
PERCEPTIVNO GRUPISANJE

Marković,1999.



PERCEPTIVNO GRUPISANJE

Jacob Beck, 1966: Texture segmentation



OBJEKTIVNE MERE DOBRE FORME

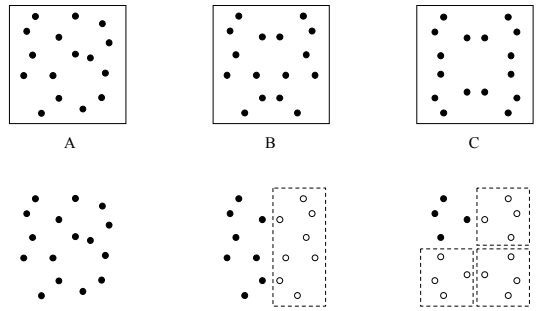
Atneave, 1954, 1955: Teorija informacije

Informaciona kompleksnost na osnovu N
(broj stranica poligona)

OBJEKTIVNE MERE DOBRE FORME

Atneave, 1954, 1955: Teorija informacije

Informaciona kompleksnost na osnovu simetrije



p = 1/16 = 0,0625
h = $-\log_2 0{,}0625$ = 4 bita

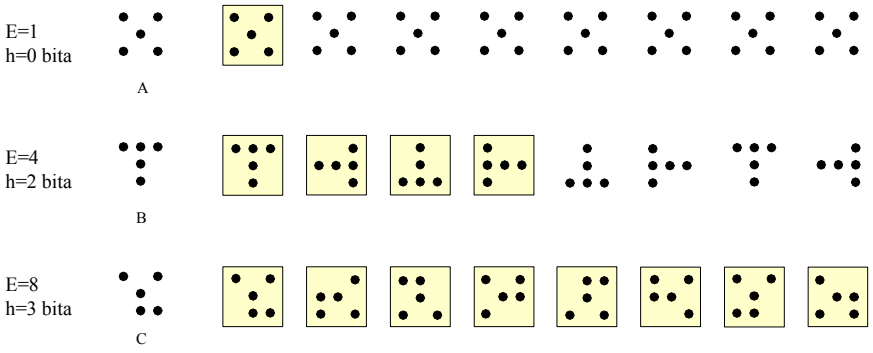
p = 1/8 = 0,125
h = $-\log_2 0{,}125$ = 3 bita

p = 1/4 = 0,250
h = $-\log_2 0{,}250$ = 2 bita

OBJEKTIVNE MERE DOBRE FORME

Garner, 1962, 1974; Garner & Clement, 1963:

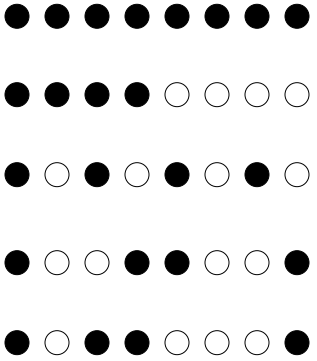
Teorija informacije: Setovi RR ekvivalenata



OBJEKTIVNE MERE DOBRE FORME

Leeuwenberg, 1971, 1978; Buffart, Restle i dr.:

Structural Information Load (SIL): br. pravila + br. elemenata



8a	SIL = 2
4a4b	SIL = 4
4x(ab)	SIL = 4
4*ab	SIL = 4
ab, 2a2b, ba	SIL = 8
a, *2ba, 2b, a	SIL = 8