

Univerzitet u Beogradu  
Filozofski fakultet  
Odeljenje za psihologiju

## PSIHOLOGIJA OPAŽANJA

### Tematske celine

PSIHOFIZIKA

ČULA

PERCEPCIJA

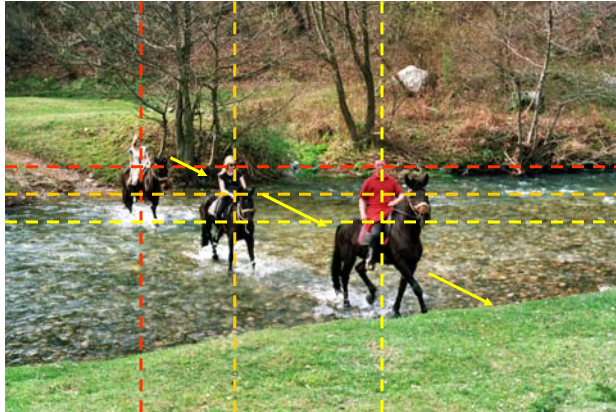
## PERCEPCIJA



## ATRIBUTI SCENE

### GDE:

Spacio-temporalne relacije



## ATRIBUTI SCENE

### GDE:

Spacio-temporalne relacije

### ŠTA:

Izgled objekata



**OBJEKAT** Izgled pojedinačnih objekta

**SCENA** Organizacija objekata u scenu



## OPAŽANJE OBJEKATA



# OPAŽANJE OBJEKATA

POVRŠINA

FORMA

VELIČINA

VOLUMINOZNOST (3-D)

## POVRŠINA

### BOJA

Zelena

Crvena

### SVETLINA

Tamna

Svetla



### TEKSTURA

Spacijalna fr.

Retka (niska SF)

Gusta (visoka SF)

# POVRŠINA

Osnovna svojstva površine

**SVETLINA**



**BOJA**



**TEKSTURA**



# ODNOSI POVRŠINA

**KONTRAST**  
svetline



← Veći kontrast

← Manji kontrast

## ODNOSI POVRŠINA

**KONTRAST**  
boje



← Veći kontrast

← Manji kontrast

## ODNOSI POVRŠINA

**OŠTRINA**  
konture



← Oštrija kontura

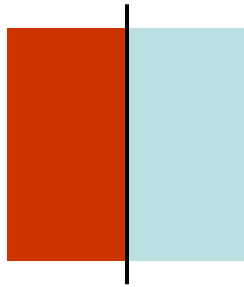
← Mutnija kontura

## ODNOSI POVRŠINA

### Izdvajanje konture

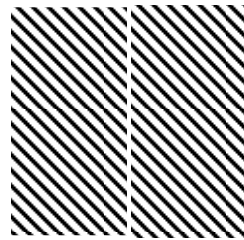
REALNA KONTURA

Svetlina, boja



ILUZORNA KONTURA

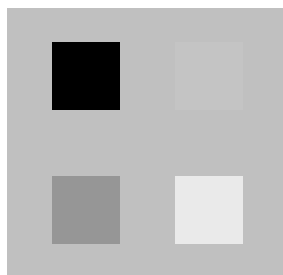
Tekstura



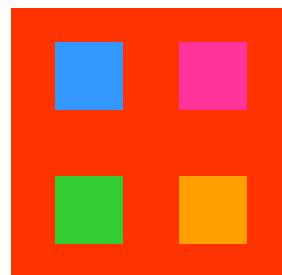
## FORMA

### Kontura

**KONTRAST SVETLINE**



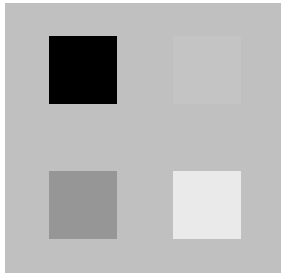
**KONTRAST BOJE**



## FORMA

Kontura

KONTRAST



OŠTRINA



## FORMA

Kontura

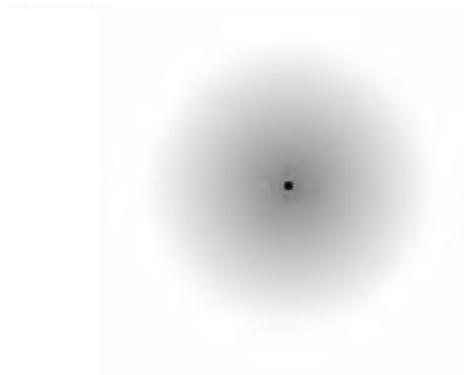
GANZFELD (*Metzger, 1930*)

Potpuna homogenizacija vizuelnog polja



# FORMA

## Kontura

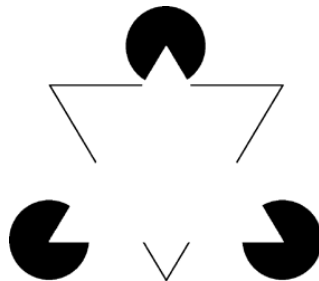


Fokusiranje centralne tačke => homogenizacija polja

# FORMA

## Iluzorne konture

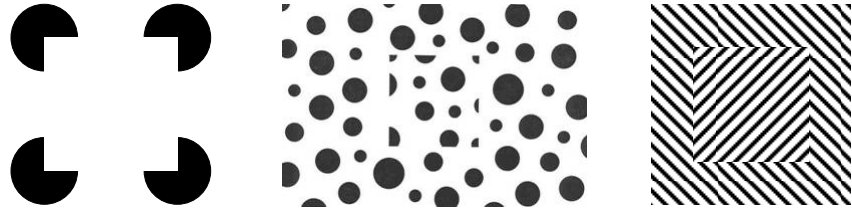
*Kanizsa*



**FIGURA - POZADINA**

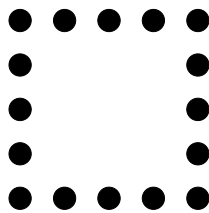
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“Iluzorni kvadrati”



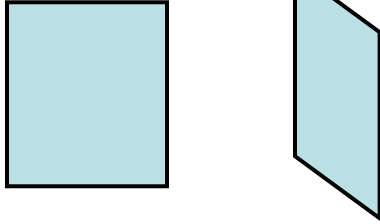
# FORMA

Konfiguracija



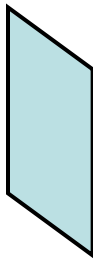
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Konstantnost oblika



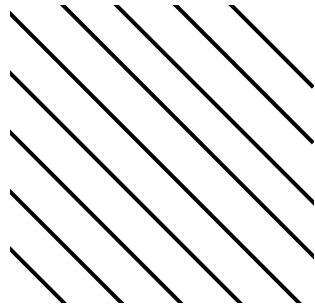
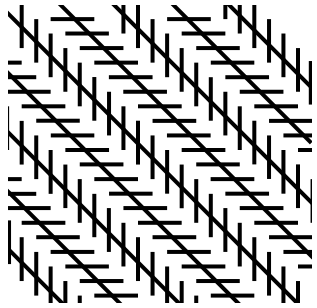
# FORMA

Konstantnost oblika



# FORMA

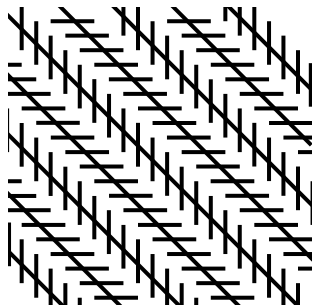
Iluzije oblika



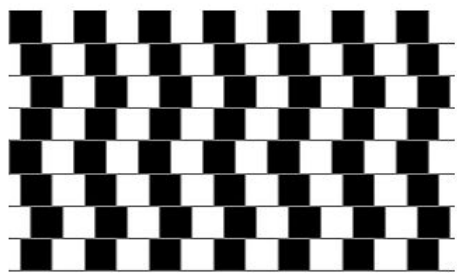
# FORMA

Iluzije oblika

*Zöllner*



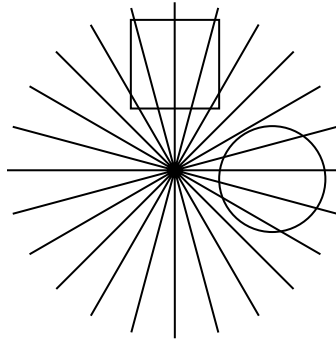
*Gregory: "Caffe wall illusion"*



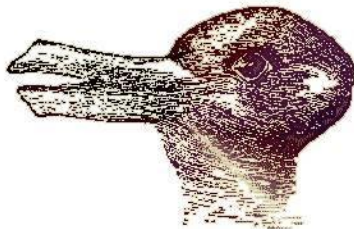
# FORMA

Iluzije oblika

*Orbison*



# DVOSMISLENE FIGURE



DVOSMISLENE FIGURE



DVOSMISLENE FIGURE

Morfizmi



# VOLUMINOZNOST

## 3-D Objekat

Distribucija povezanih površina u 3-D prostoru

### KOLORNI KONTRAST



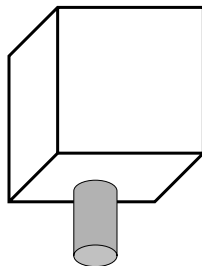
# VOLUMINOZNOST

## 3-D Objekat

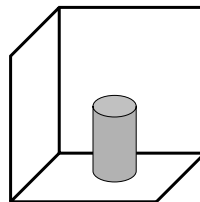
Distribucija povezanih površina u 3-D prostoru

### NAGIB POVRŠINA

#### KONVEKSNO



#### KONKAVNO



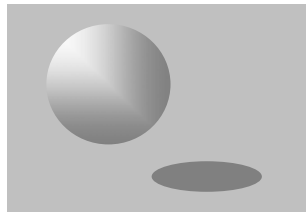
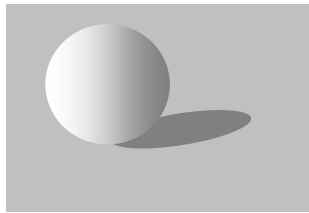
# VOLUMINOZNOST

## 3-D Objekat

Distribucija povezanih površina u 3-D prostoru

NAGIB POVRŠINA

**OSVETLJENOST- SENKA**



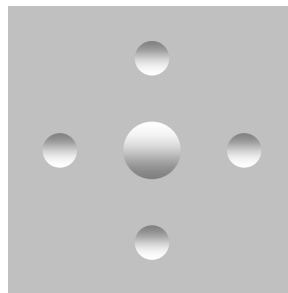
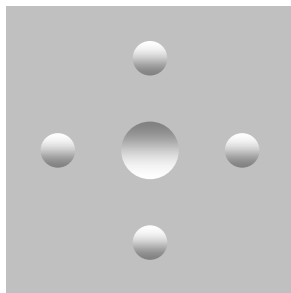
# VOLUMINOZNOST

## 3-D Objekat

Distribucija povezanih površina u 3-D prostoru

NAGIB POVRŠINA

**OSVETLJENOST- SENKA x ORIJENTACIJA**





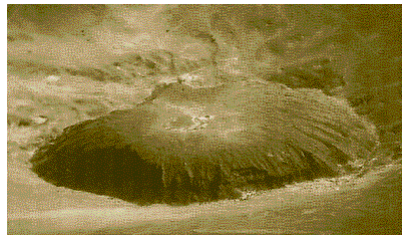
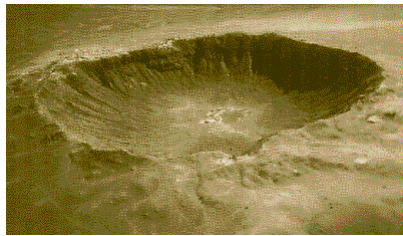
# VOLUMINOZNOST

3-D Objekat

Distribucija povezanih površina u 3-D prostoru

NAGIB POVRŠINA

**OSVETLJENOST- SENKA x ORIJENTACIJA**



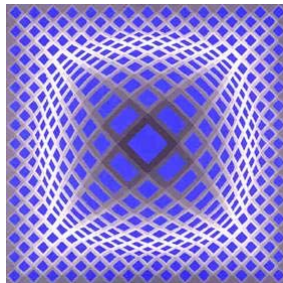
# VOLUMINOZNOST

3-D Objekat

Distribucija povezanih površina u 3-D prostoru

NAGIB POVRŠINA

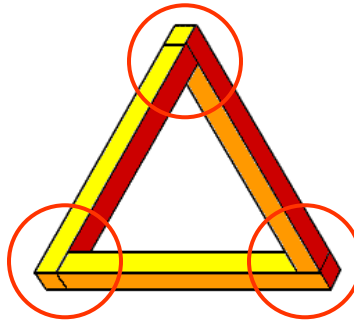
**GRADIJENT TEKSTURE**



## VOLUMINOZNOST

Nemogući objekti: sukob globalno-lokalno

Penrouzov trougao (*Penrose*)



## OBJEKAT

**POVRŠINA**



**KONTURA**



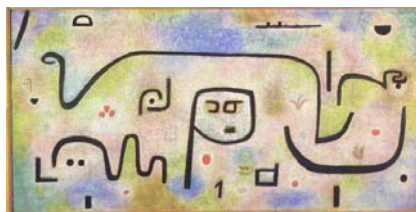
**TELO**



OBJEKAT



SCENA



OPAŽANJE SCENE



# IZGLED SCENE

FIGURA - POZADINA

DEO - CELINA

PERC. ORGANIZACIJA

FIGURA - POZADINA

FIGURA



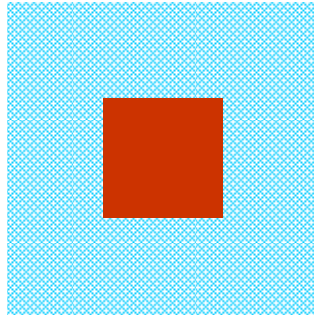
POZADINA

## FIGURA - POZADINA

### Segregacija

#### FIGURA

Centralna  
Ispred  
Pripada joj  
kontura



#### POZADINA

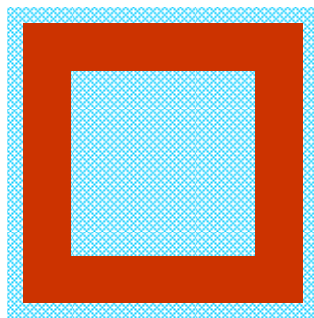
Periferna  
Iza  
Ne pripada joj  
kontura

## FIGURA - POZADINA

### Segregacija

#### FIGURA

Centralna ?  
Ispred  
Pripada joj  
kontura



#### POZADINA

Periferna ?  
Iza  
Ne pripada joj  
kontura

FIGURA - POZADINA

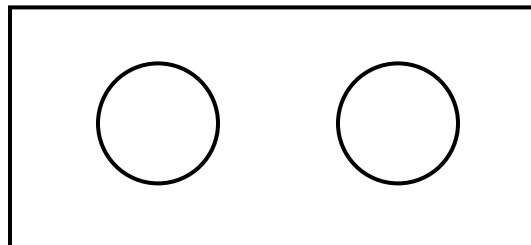
Dvosmislenost



FIGURA - POZADINA

Dvosmislenost

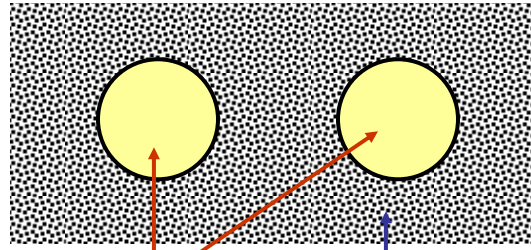
**FIGURA ili POZADINA**



# FIGURA - POZADINA

Dvosmislenost

FIGURA ili POZADINA

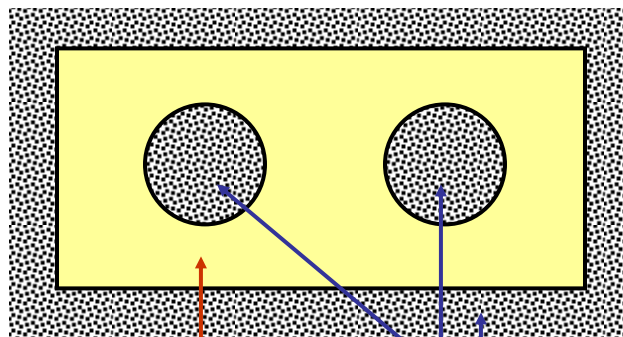


FIGURA

POZADINA

# FIGURA - POZADINA

Dvosmislenost



FIGURA

POZADINA

FIGURA - POZADINA

Dvosmislenost

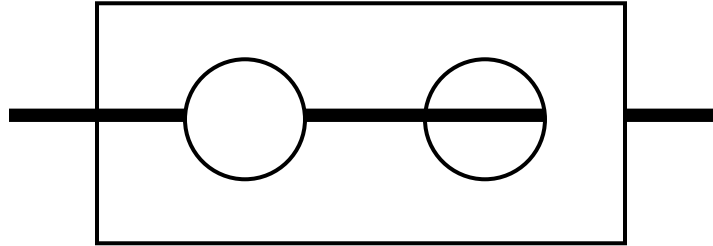
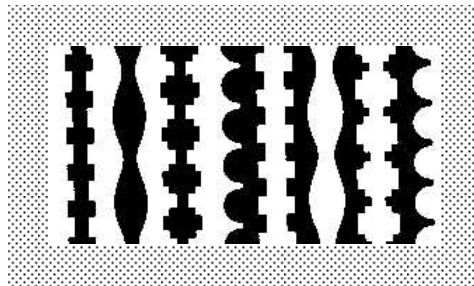


FIGURA - POZADINA

Dvosmislenost

*Hochberg*



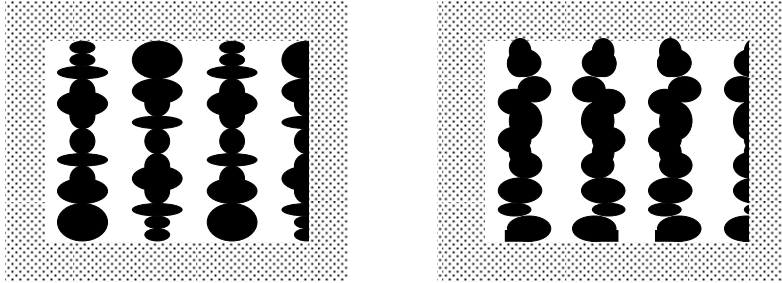
SIMETRIJA



FIGURA - POZADINA

Dvosmislenost

*Kanizsa*

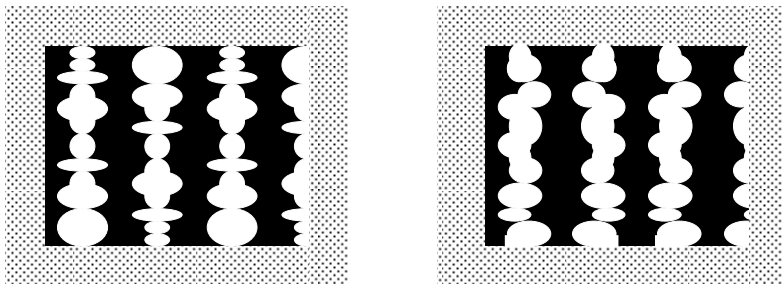


KONVEKSNOST

FIGURA - POZADINA

Dvosmislenost

*Kanizsa*



KONVEKSNOST

FIGURA - POZADINA

Dvosmislenost

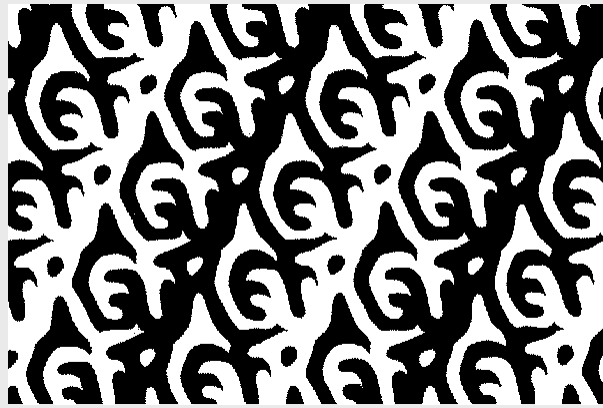


FIGURA - POZADINA

Dvosmislenost



FIGURA - POZADINA

Dvosmislenost

*Rubin*

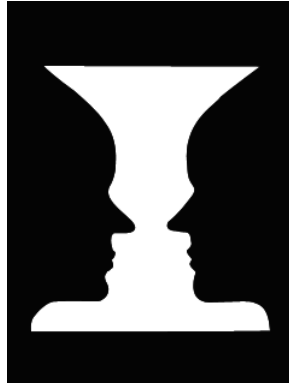


FIGURA - POZADINA

Dvosmislenost

*Kanizsa*

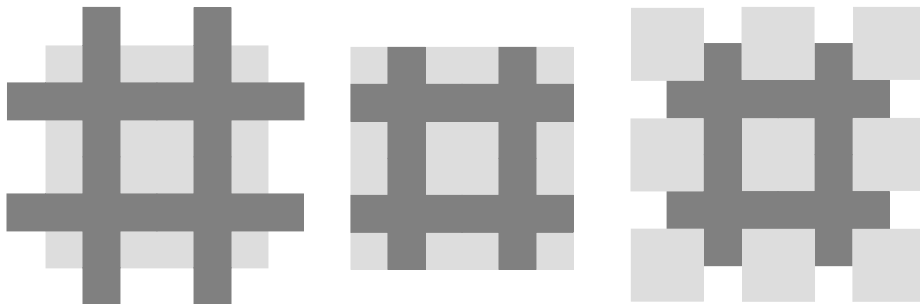


FIGURA - POZADINA

Nemoguće scene

*Kanizsa*

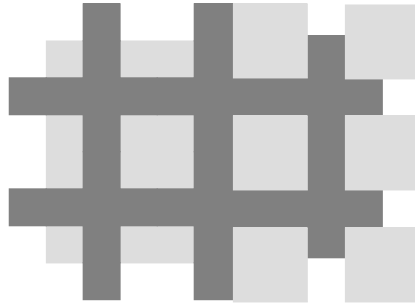


FIGURA - POZADINA

Nemoguće scene

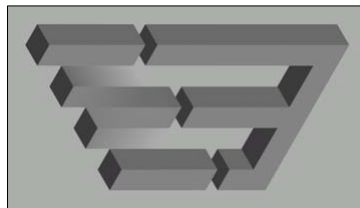
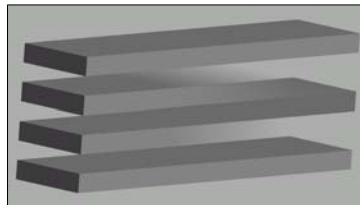
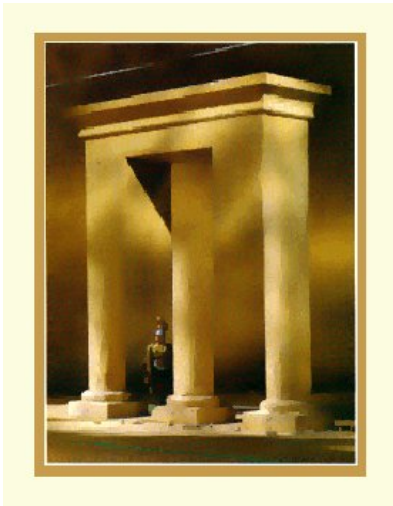
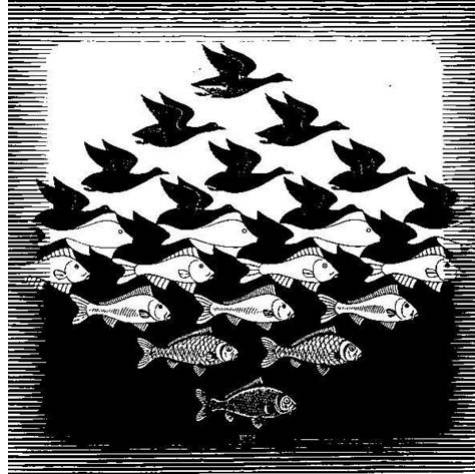


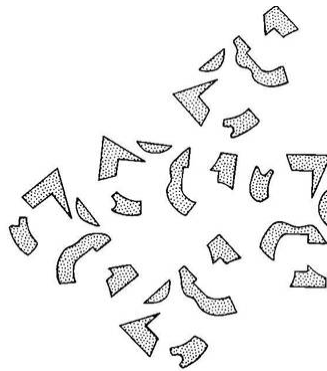
FIGURA - POZADINA

Transformacije



*Escher*

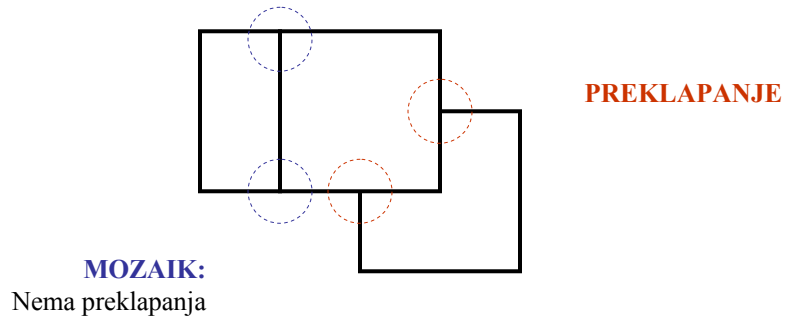
FIGURA - POZADINA



*Bregman, 1981.*

## FIGURA - POZADINA

Preklapanje: amodalno kompletiranje



## FIGURA - POZADINA

Preklapanje: amodalno kompletiranje

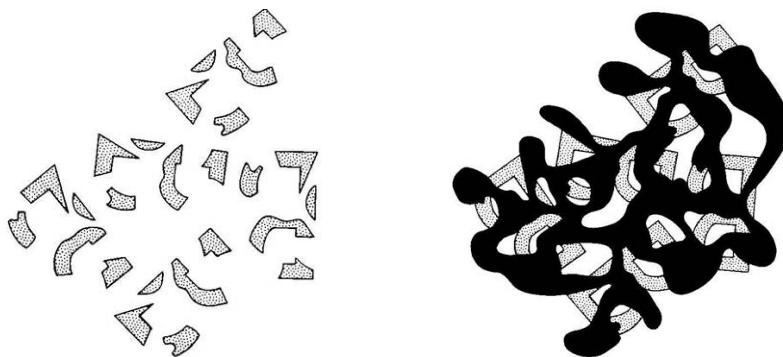


FIGURA - POZADINA

Preklapanje: amodalno kompletiranje

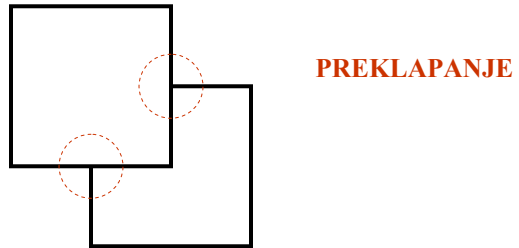
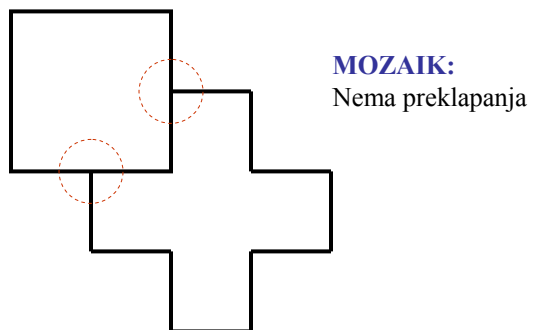


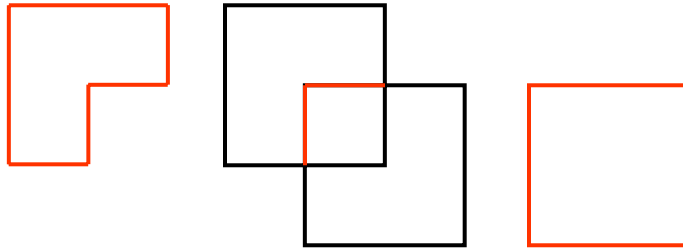
FIGURA - POZADINA

Preklapanje: amodalno kompletiranje



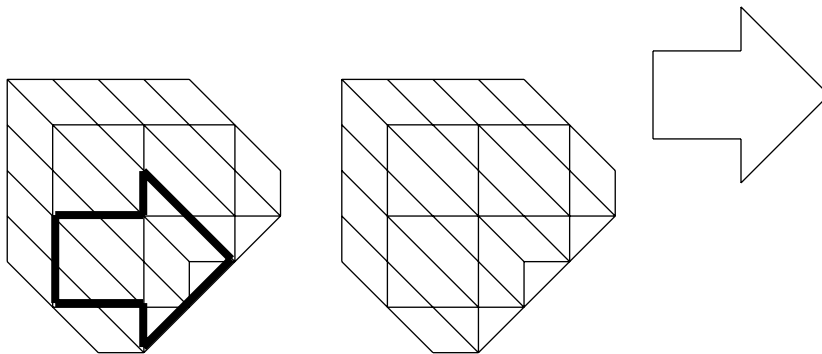
DEO - CELINA

Šta pripada čemu?



DEO - CELINA

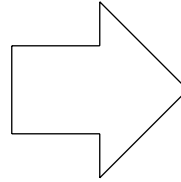
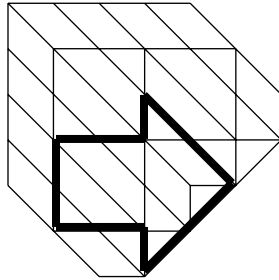
Kamuflaže





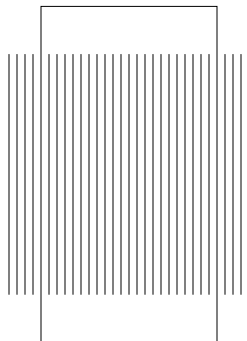
DEO - CELINA

Kamuflaže



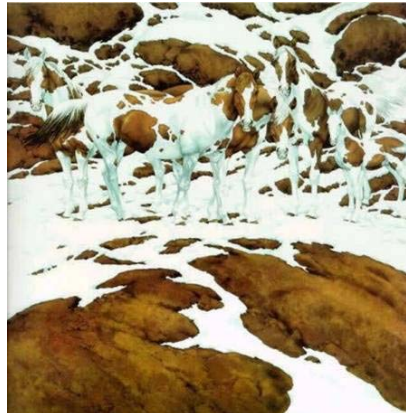
DEO - CELINA

Kamuflaže



## DEO - CELINA

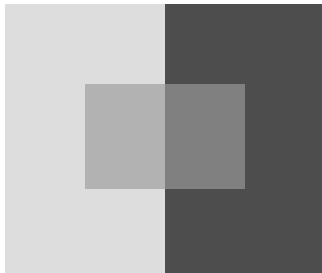
### Kamuflaže



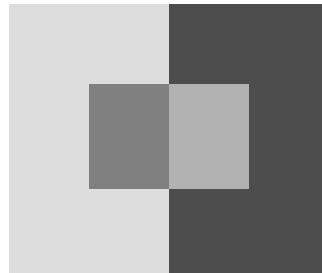
## DEO - CELINA

### Transparentnost

#### *Metteli*



**PROVIDNOST**



**MOZAIK**

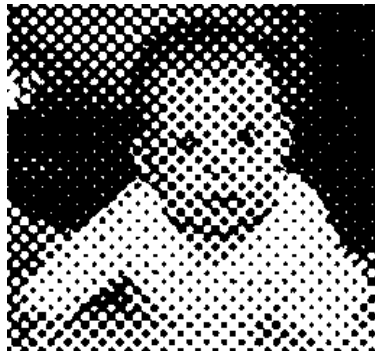
## PERCEPTIVNA ORGANIZACIJA

Konfiguracije objekata => struktura scene



## PERCEPTIVNA ORGANIZACIJA

Konfiguracija elemenata => perceptivna celina



*Signac*



## PERCEPTIVNA ORGANIZACIJA

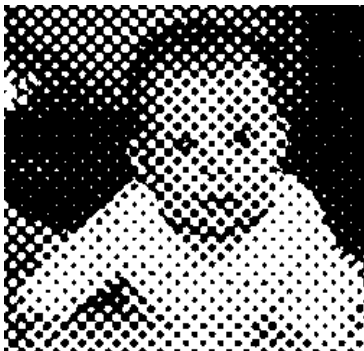
Konfiguracija elemenata => perceptivna celina



*Signac*

## PERCEPTIVNA ORGANIZACIJA

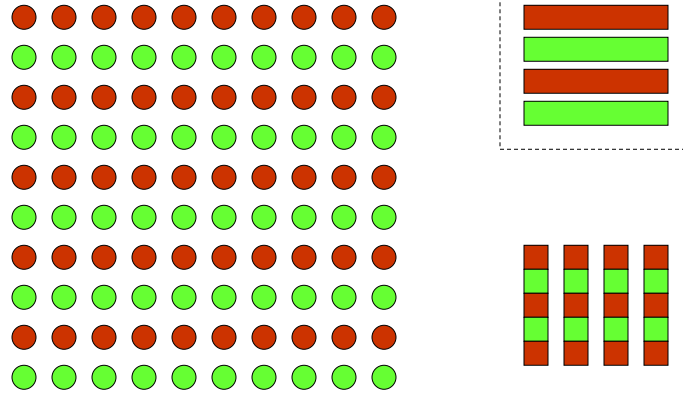
Konfiguracija elemenata => perceptivna celina



# PERCEPTIVNA ORGANIZACIJA

Zakoni grupisanja (*Wertheimer, 1923*)

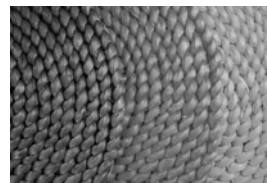
## SLIČNOST



# PERCEPTIVNA ORGANIZACIJA

Zakoni grupisanja (*Wertheimer, 1923*)

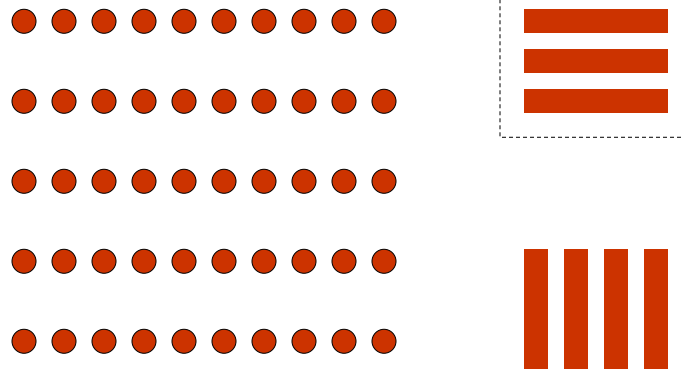
## SLIČNOST



# PERCEPTIVNA ORGANIZACIJA

Zakoni grupisanja (*Wertheimer, 1923*)

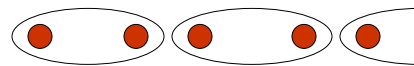
## BLIZINA



# PERCEPTIVNA ORGANIZACIJA

Zakoni grupisanja (*Wertheimer, 1923*)

## BLIZINA



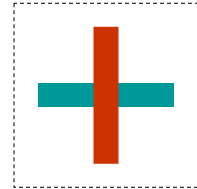
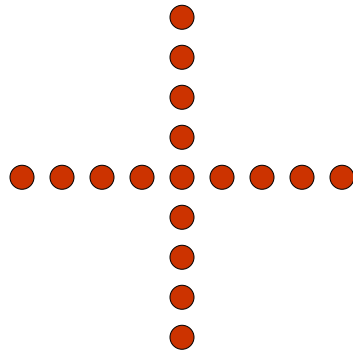
PRIPADNOST

*Palmer*

## PERCEPTIVNA ORGANIZACIJA

Zakoni grupisanja (*Wertheimer, 1923*)

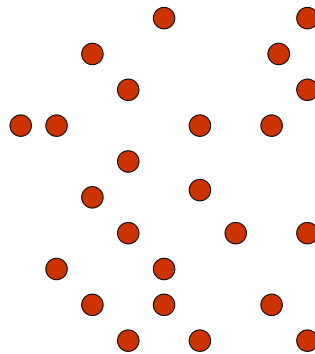
### KONTINUITET



## PERCEPTIVNA ORGANIZACIJA

Zakoni grupisanja (*Wertheimer, 1923*)

### DOBRA FORMA

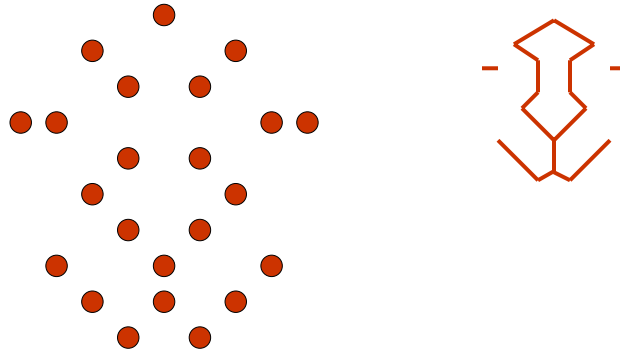


NEMA  
PERCEPCIJE FORME

# PERCEPTIVNA ORGANIZACIJA

Zakoni grupisanja (*Wertheimer, 1923*)

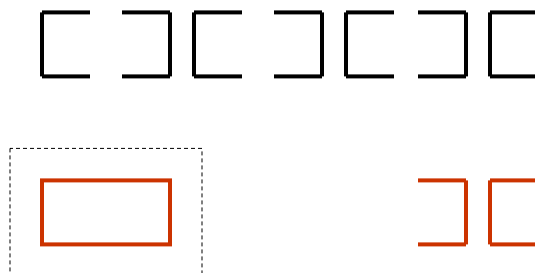
## DOBRA FORMA



# PERCEPTIVNA ORGANIZACIJA

Zakoni grupisanja (*Wertheimer, 1923*)

## ZATVORENOST

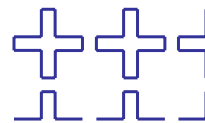
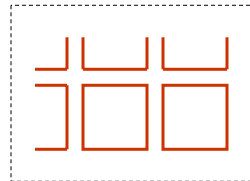
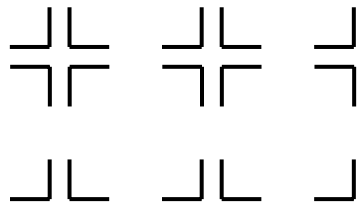




# PERCEPTIVNA ORGANIZACIJA

Zakoni grupisanja (*Wertheimer, 1923*)

## ZATVORENOST



## BLIZINA

## OBJEKAT



## SCENA

