

Esthetics



Is Some Thing Very **Personal**Depend on Time, Geographic
Region, religion ...
What the Patient Think It Is



Beauty is eternity gazing at itself in a mirror

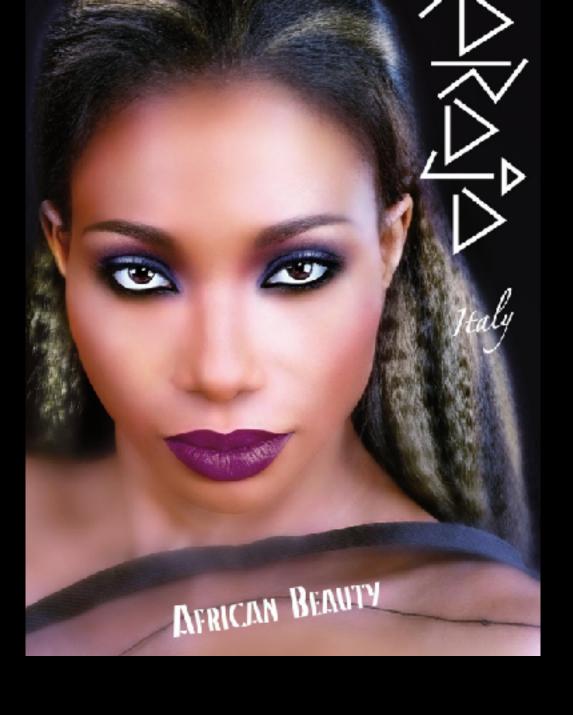






















1- Factors Related to the Teeth to Be Restored

- A- size
- *B- shape*
- C- color
- *D- surface texture*
- E- facets (shape, size, location...)

2- Factors Related to the Adjacent Teeth

- A- embrasures
- B-proportionality
- C-balance
- D- alignment
- E- contact relationship

3- General Factors

- A- gingival contour
- B-Form & thickness of lips
- C-Smile line
- D- relationship of the midline of the teeth with face

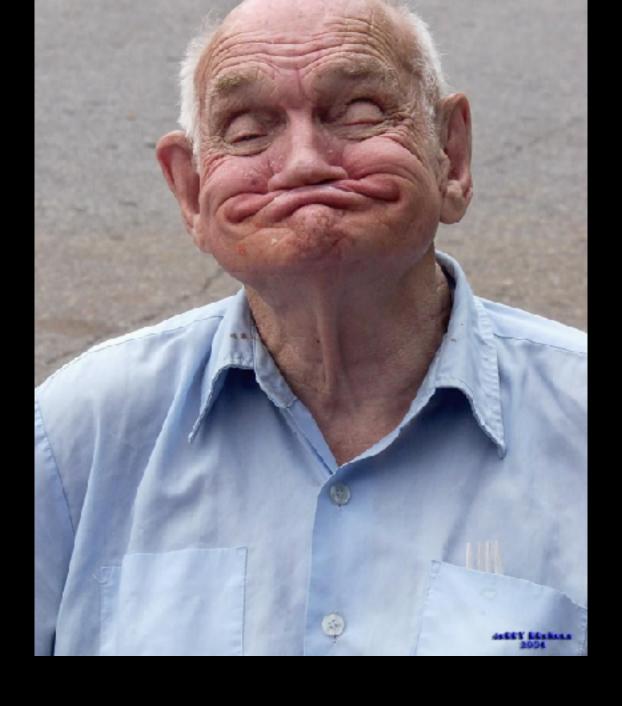
<u>Size</u>

- Size affect apparent width (diastema closure)
- During youth incisal edge of upper incisors are
 2-3 mm longer than upper lip line at rest
- Mean exposure of incisal level: men 1.9mm women 3.4mm

Size

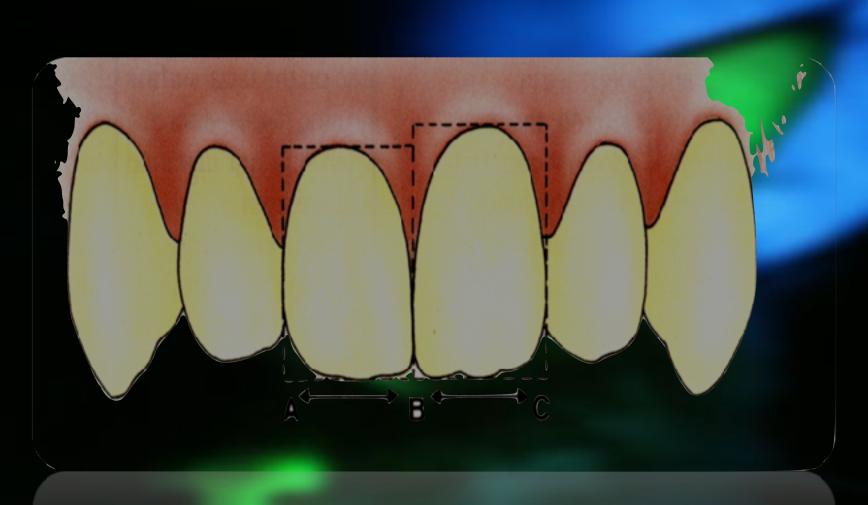
• The mean visible length of <u>upper incisors</u> diminish with age but <u>lower incisors</u> increase

 The more exposed incisal edge the younger the patient's appearance









V, B, C

Types of basic forms	Square	Triangular	Oval
A Facial ridges and grooves (frontal view)			
B Incisal line (incisal view)			
C Incisal line (frontal view)			
D Thickness and Ip line (horizontal sectioning at center of crown)			

Square





Square Tapering





Tapering





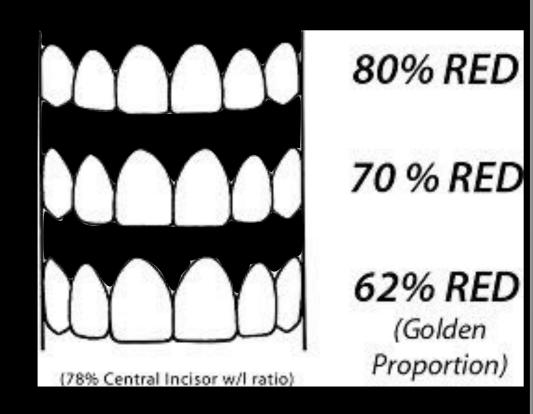
Proportion

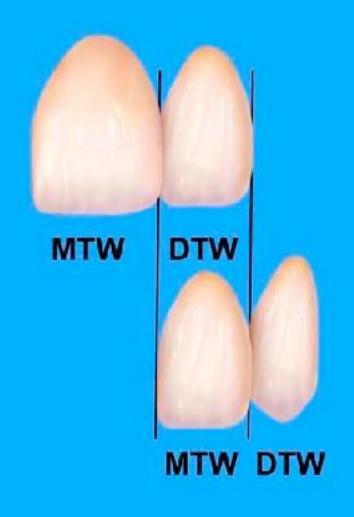
- Golden proportion .618 # 60%
- Central incisors : length / width = 10/8
- · Canine as a guide when all ant. damaged

RED. (Recurrent Esthetic Dental)proportion









DTW (Distal Tooth Width)

MTW (Mesial Tooth Width) = constant



Surface Texture

Alter over time

Young teeth = characterizations

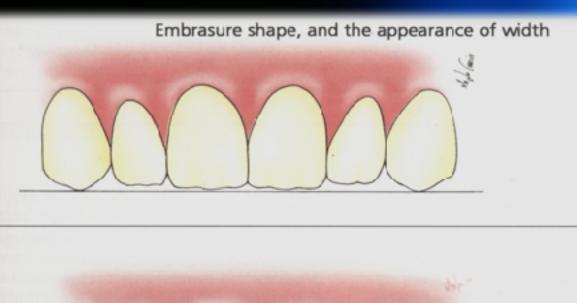
 The more light reflect from surface the wider, lighter, closer the teeth

Incisal Embrasures

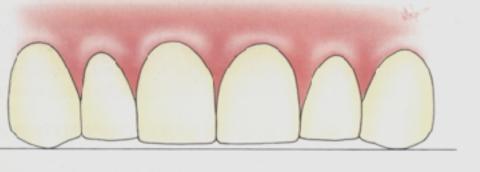
- It changes over time
- Modify perception of width (smaller emb. Make tooth look wider)

Incisal emb. Increase moving distally

Women have more wider embrasures



Teeth with a normal width appearance (normal incisal embrasure)



wher looking teeth (a naller than normal incisal embrasures)



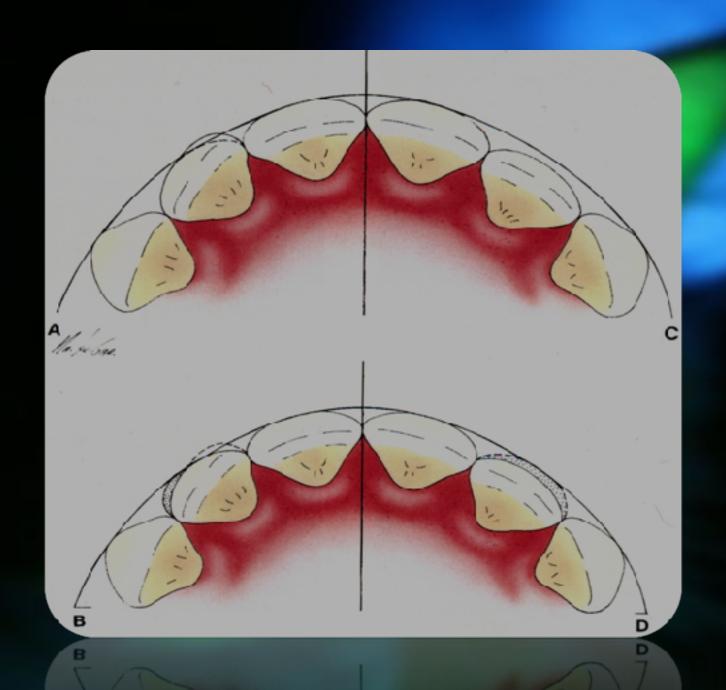
Smaller width looking teeth (a larger than normal incisal embrasure)





S M I L E

- Typical youthful feminine smile.
- Rounded incisal edge.
- Open incisal embrasures.
- Subtle facial line angles.
- Typical men smile.
- More closed emb.
- Prominent incisal line angles.
- Prominent canines.



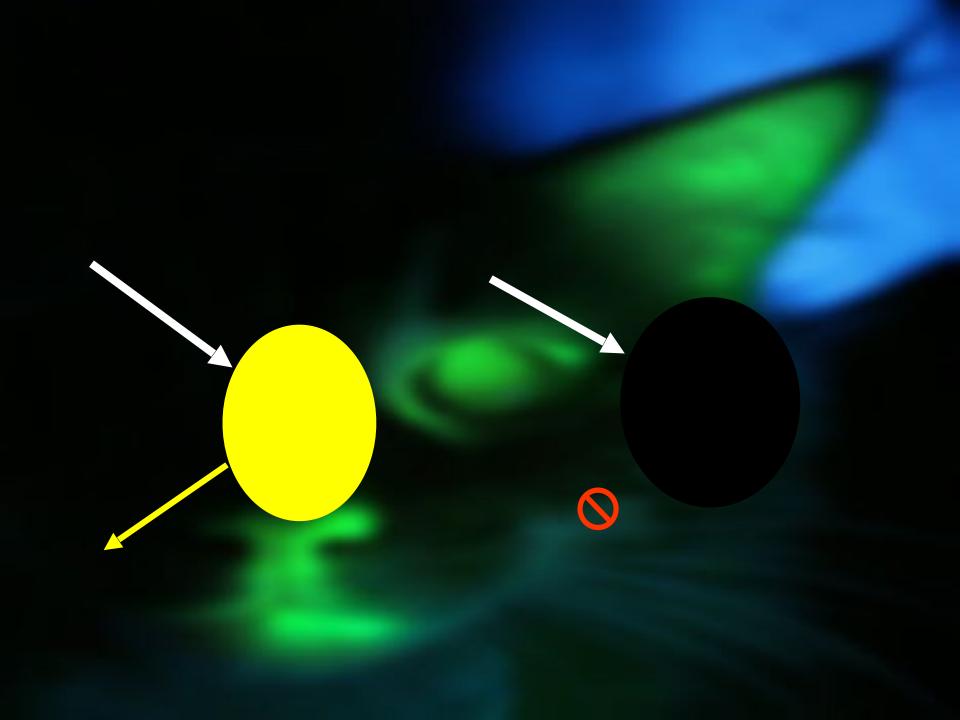


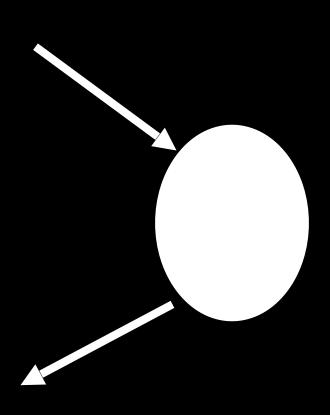






LightSHADOW





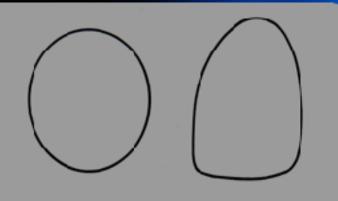


Fig. 2-1. Unidirectional, unnatural lighting throws no shadows. Only length and width are represented.

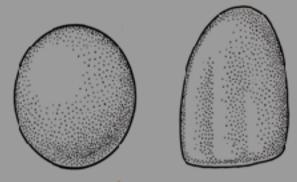


Fig. 2-2. Natural lighting is multidirectional. It throws shadows and therefore promotes a feeling of depth—a three-dimensional effect.

Natural Tooth Is Polychromatic

• The principles of Color



(name of color)

• CHROMA

(saturation)

• VALUE

(brightness)

Value is the most important factor in shade matching



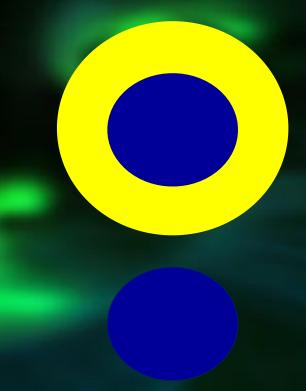




- Primary hues (RYB)
- Secondary Hues (mix. Of 2 primary)
- Complementary hues (directly opposite each other)

Complementary Colors

Enhance the appearance of each other







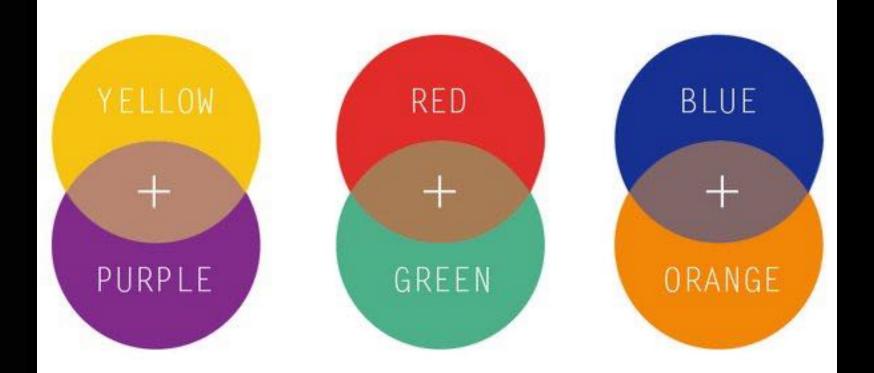


Primary hue + Complementary Secondary hue =cancel out both colors

ie: Gray

Clinical Tip

To change hue, lessen chroma, or lower value, place the complementary hue over the color to be modified











• <u>Metamerism</u>

- There is more than one way to produce color
- 1- pure color (green)
- 2 -mixture (blue + yellow)

The Best Way for Color Matching
Use 3 Light Source

<u>Day Light</u> <u>Operatory Lamp</u> <u>Cool White Fluorescent</u>

<u>Metamerism</u>

PURE GREEN GREEN (Y+B)

Opacity (Dentin) Translucency (Enamel)

Opalescency (





Translucency provide realism

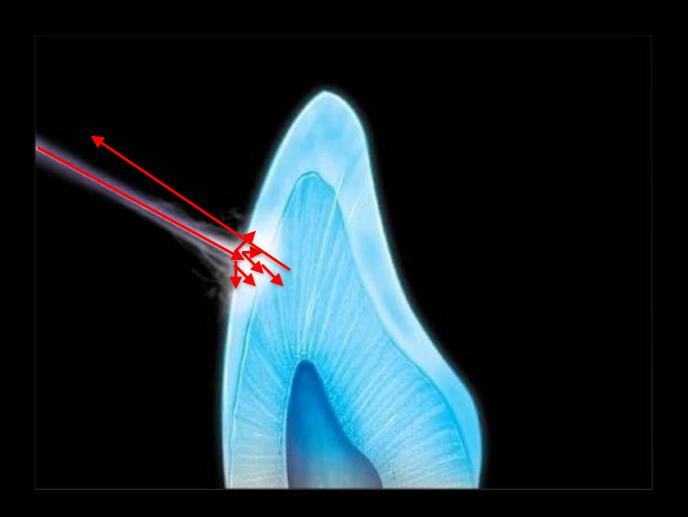


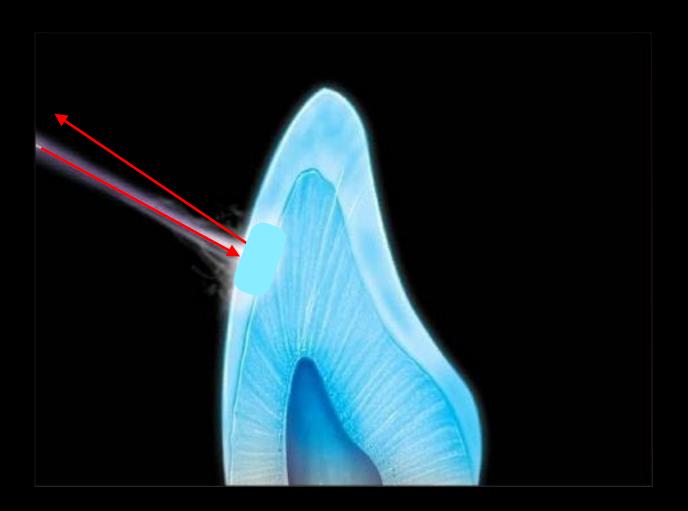


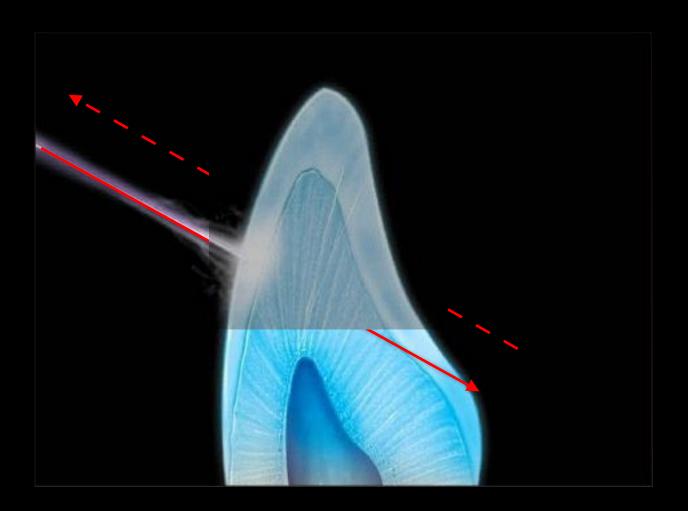




















The principle of line

- Horizontal lines create the illusion of width
- Vertical lines create the illusion of height

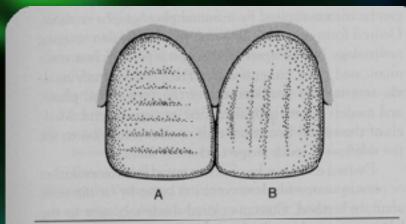


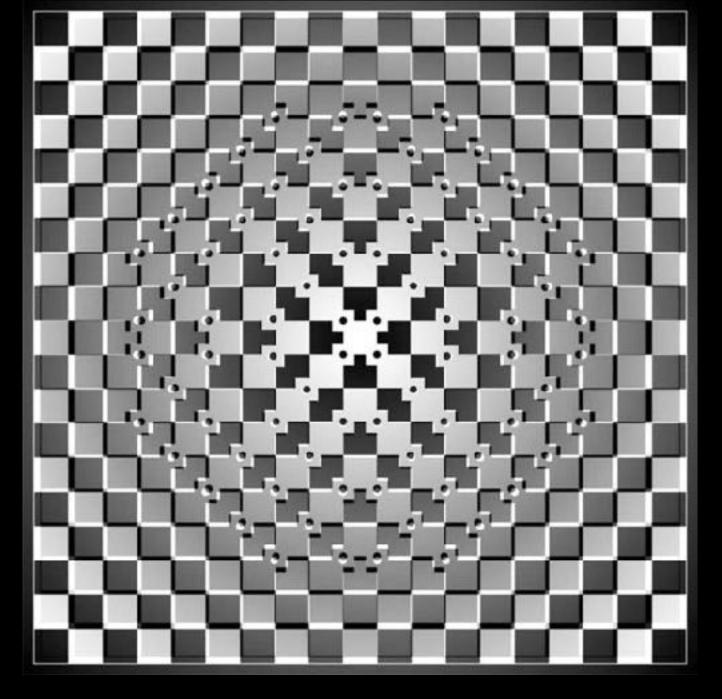
Fig. 2-17. The principle of line can be used to create the illusion of a longer or shorter tooth. Stain lines, texturing, and modification of the face and incisal edge all contribute to the illusion.

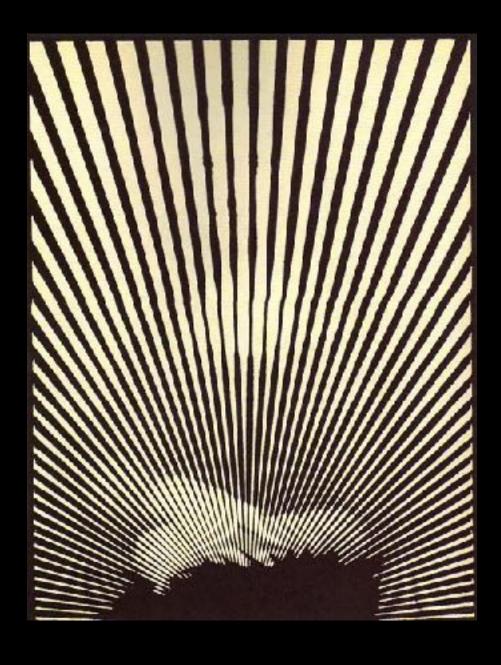
Illusion

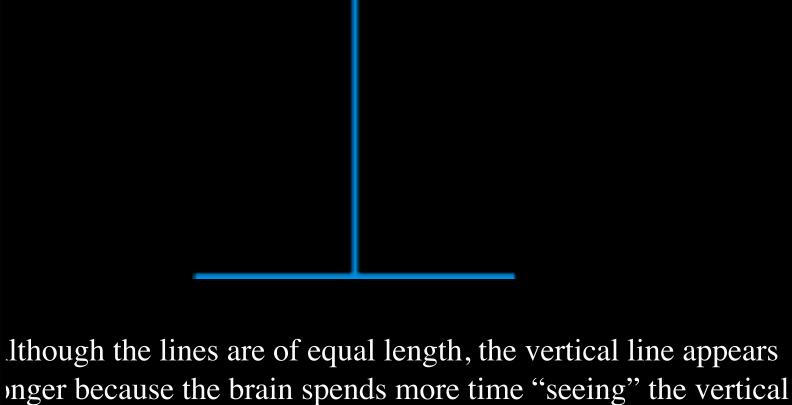
• The art of changing perception to cause an object to appear different than it is

Illusion say:









nd interprets longer time as longer length.

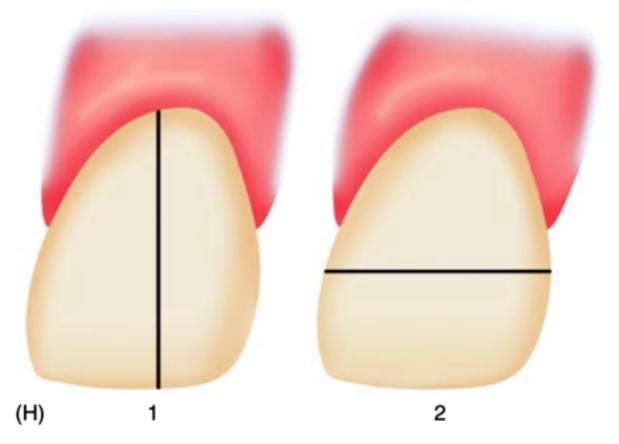
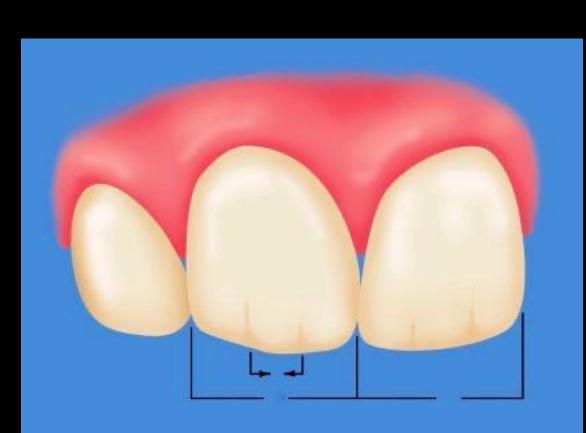


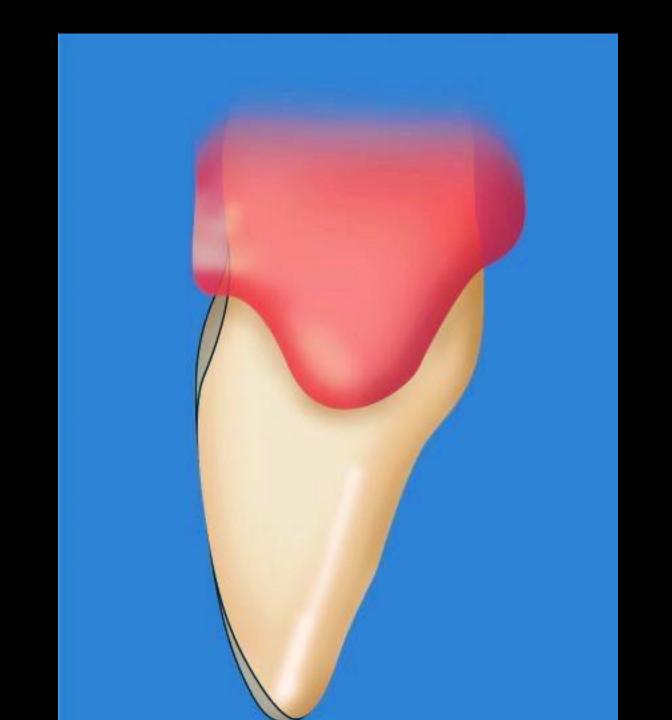
Figure 8.2 (H) Although teeth 1 and 2 are equal in size, the accent lines make tooth 1 appear longer and tooth 2 appear wider.



- Light Reflection
 Visibility
- Light Deflection
 Visibility

Curved lines and surfaces are softer, more pleasing, and perceived as more feminine than sharp angles.





Type of Material	Light Reflected	Light Transmitted	Tooth Stump Effect
Feldspatic ceramic	Low	High	High
Lucite reinforced	Low	High	High
Lithium disilicate	High	High	Medium low
Zirconia	High	Low	Low
Metal	High	Low	No effect

The Law of the Face of Tooth

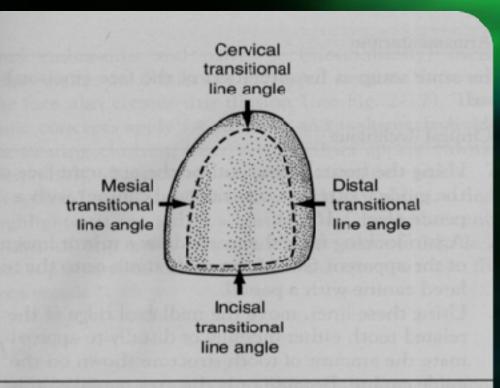


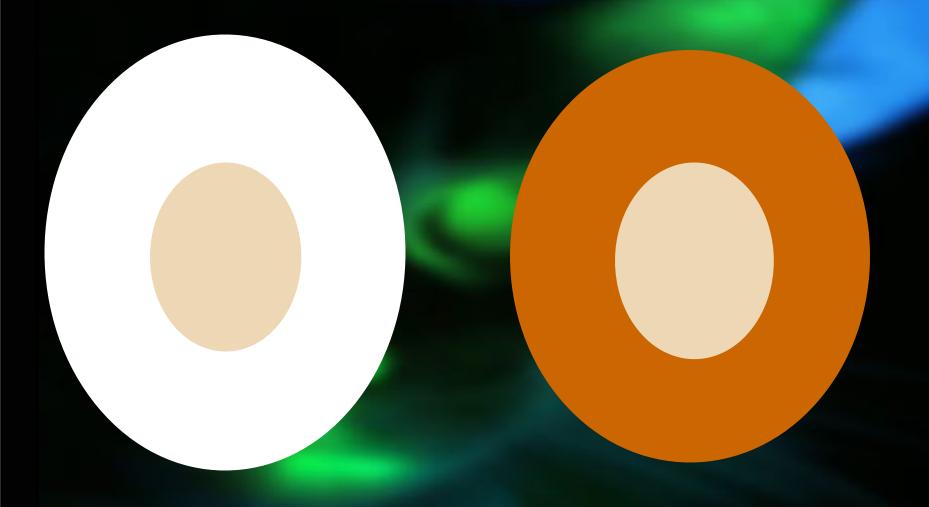
Fig. 2-11. The face of the tooth is bound by the transitional line angles.

Fig. 2-11. The face of the tooth is bound by the transitional line angles.

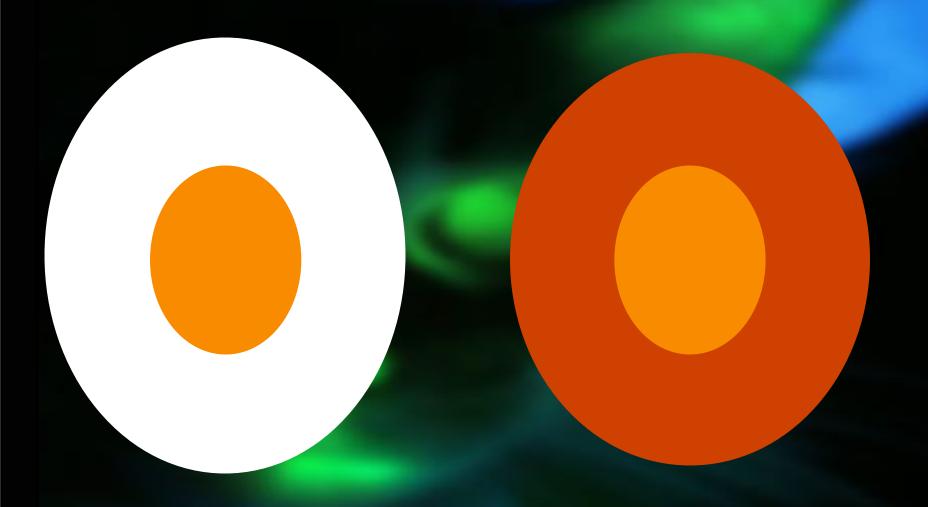
 In order to make dissimilar teeth appear similar the apparent faces should be equal

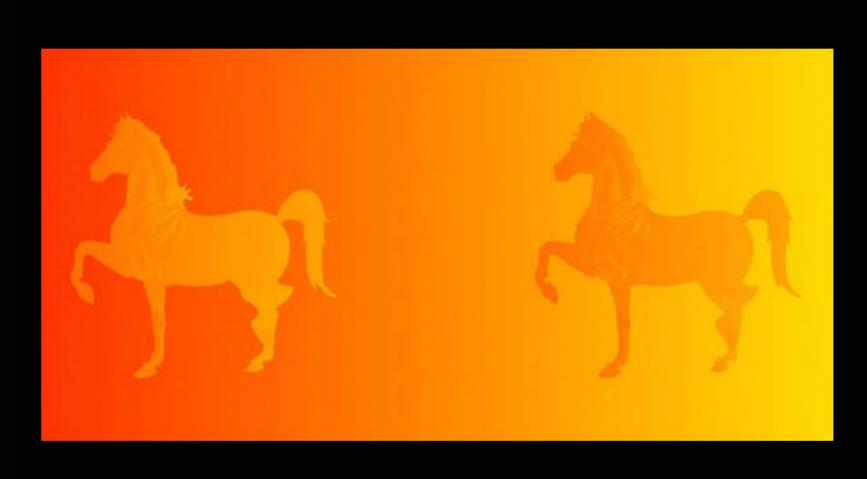
 Equal faces can be created by shaping the lab. Surface to reposition the transitional line angles

Back Ground Effect



Back Ground Effect

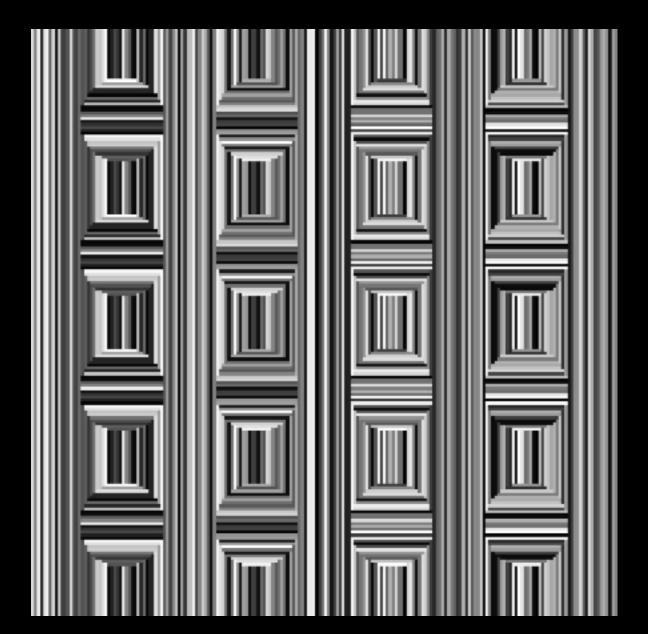




The sex illusion

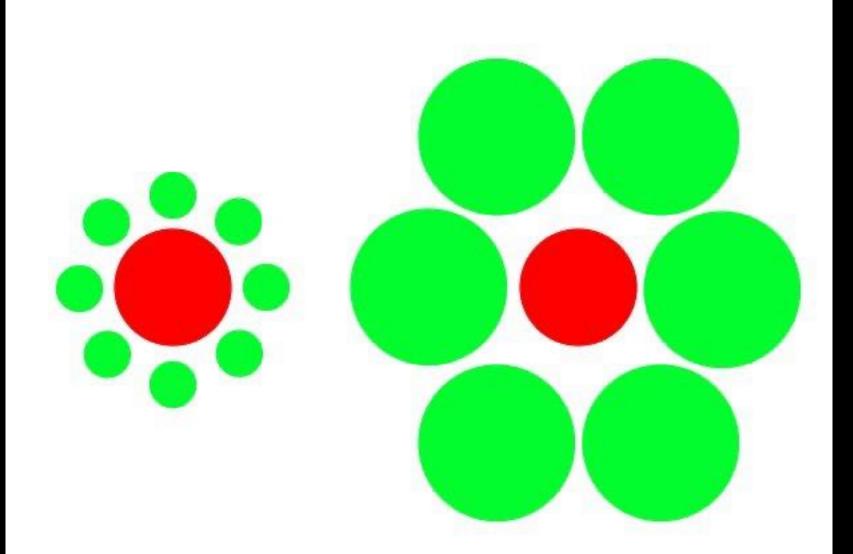


The Coffer illusion



The mask of love

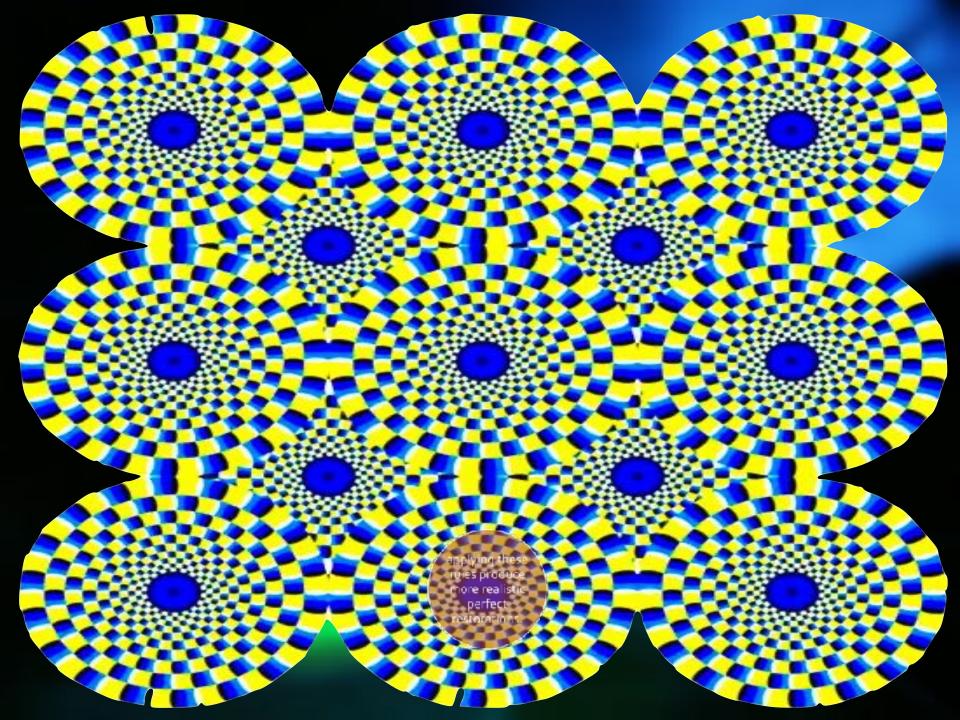














اطلس آموزنتن قدم به قدم

پرسلن لامینیت ونیر

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THANKYOU FOR YOUR ATTENTION

Any question?

