# GD-105 Intro to Visual Design Design Component and Gestalt Principles Winny Lucas

### Design:

# Creation of a plan for the construction of an object or system

Visual Design

Creative process that uses visual information to develop *a message, idea, concept, tone* to a targeted audience. Use of words, symbols, visual representation of ideas and messages.

Visual Commination

### Uses of Visual Design

- Identity (logo, branding),
- publications,
- print advertisement, posters,
- visual art design,
- Typography,
- website,
- Interface design,
- page layout etc.

### Identity (logo, branding)- change a thing



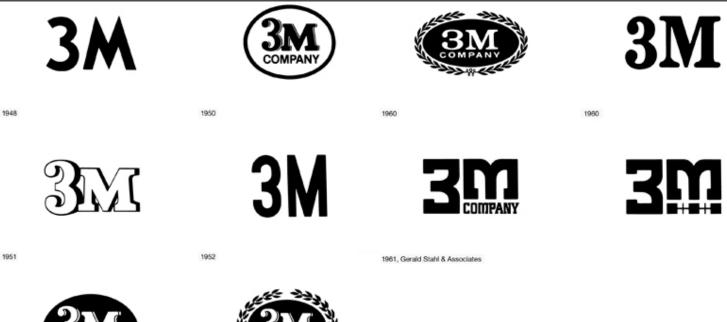
### Identity (logo, branding) Use abstract imagery



### Identity (logo, branding) Use negative space effectively



### Consider trend, logo life



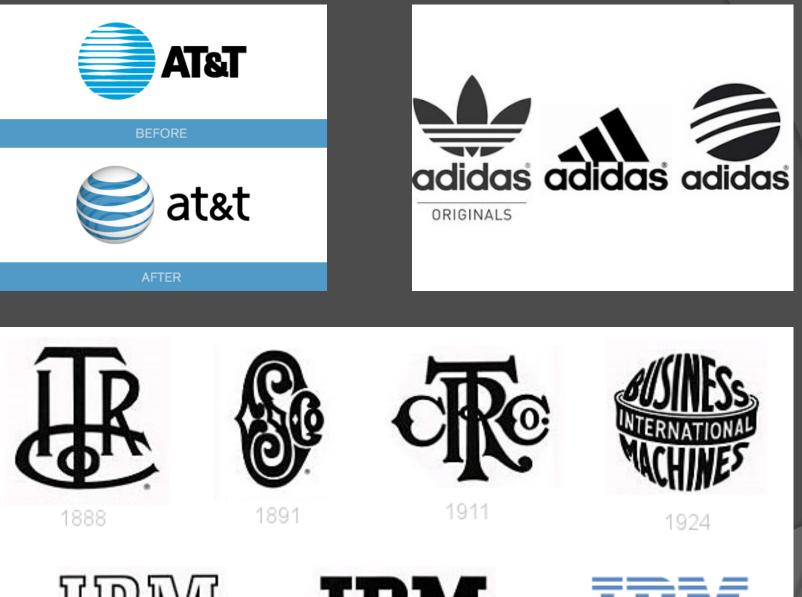






### Consider trend, logo life









IBM

# Similar style of layout, but their own type choice for the brand







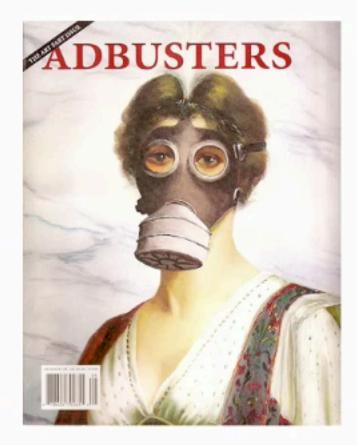
*Each magazine's cover design is consistent through out the years* 





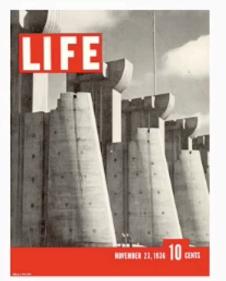




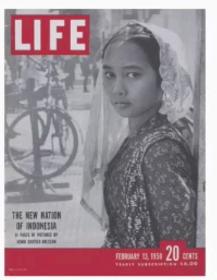








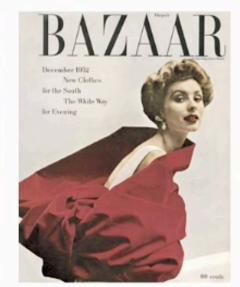
cover photo: Margaret Bourke-White



cover photo: Henri Cartier-Bresson



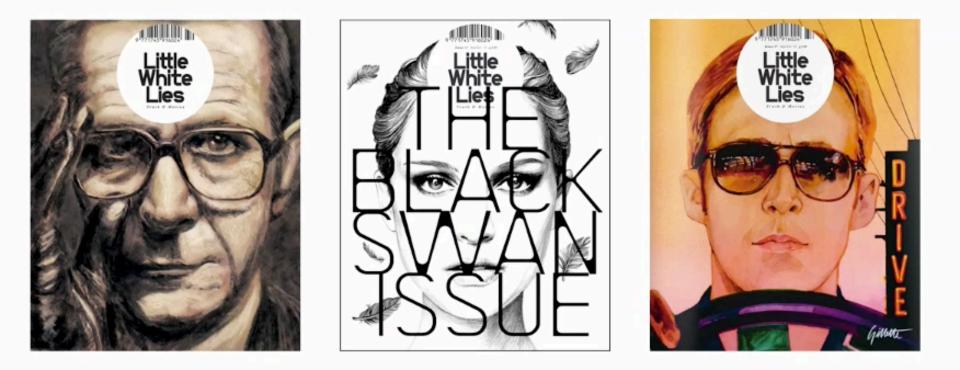
cover photo: Louise Dahl-Wolfe



cover photo: Richard Avedon

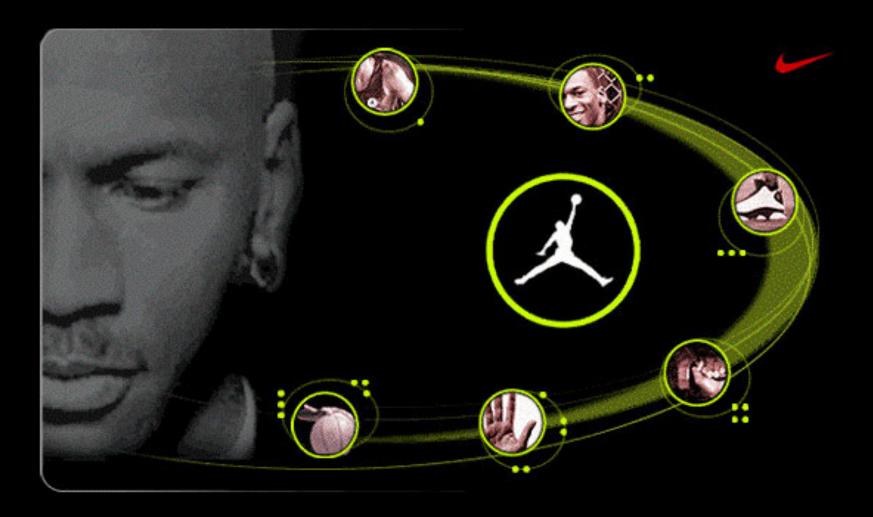


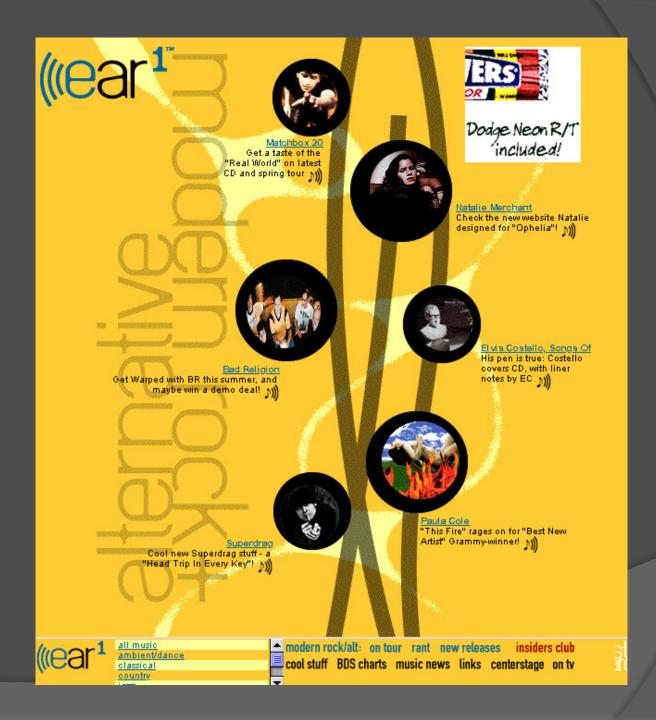
# Google image their cover: stylistic photo illustrations



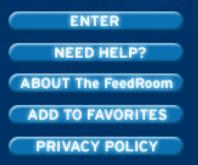


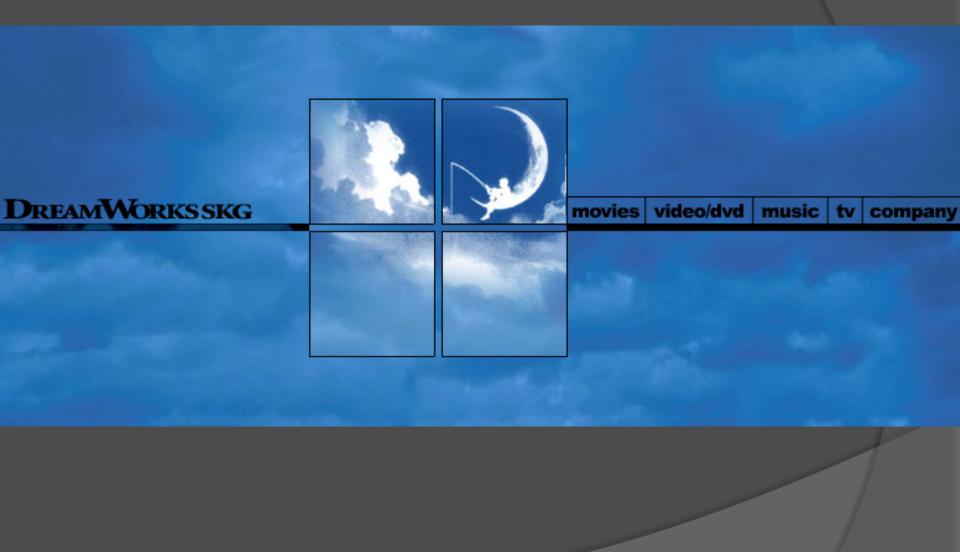














# **Responsive Grid System**

#### Spectacularly Easy Responsive Design

The Responsive Grid System isn't a framework. It's not a boilerplate either. It's a quick, easy  $\mathfrak{S}$  flexible way to create a responsive web site.

Tweet 760

http://responsivegridsystem.com

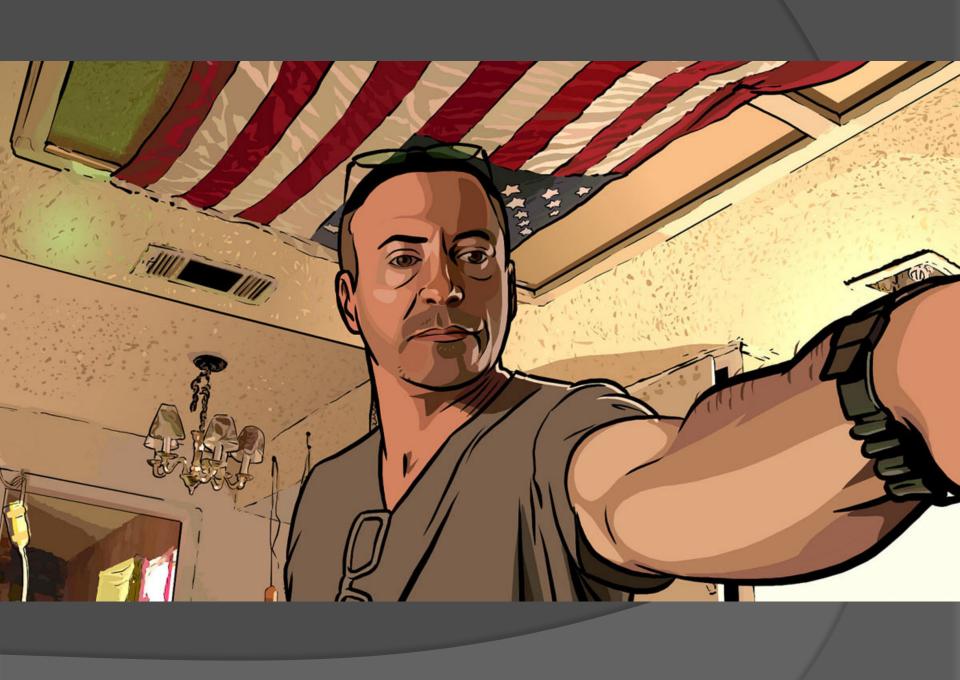
\* Have Any Number 🔅 Scales to Any Width 🖡 It's Smart

Put the Content First

http://www.responsivegridsystem.com/

#### New creative sites

- AIGA Portland: <u>http://aigaportland.org/</u>
- Lowdi: <u>http://lowdi.com/</u>
- The Mealings: <u>http://www.themealings.com.au/</u>
- Queen of Spades: <u>http://www.thequeenofspades.com/</u>
- Dangers of Fracking: <u>http://dangersoffracking.com/</u>
- Kinvara 3: <u>http://community.saucony.com/kinvara3/</u>
- Andy Patrick: <u>http://andypatrickdesign.com/</u>
- Ivan McClellan <u>http://ivanmcclellan.com/</u>
- Rule of three: <u>http://rule-of-three.co.uk/</u>







# Monkey: journey to west show





La Linea - animation using line: <u>http://www.youtube.com/watch?</u> <u>v=8SP14hTEbRw&feature=share&list=PLtcy5ATttB6caFQQ4</u> <u>G4InV0DFavalXxf7</u>

Don Hertzfeldt – it's such a beautiful day

http://vimeo.com/ondemand/itssuchabeautifulday/61349288

OK Go music videos I won't let you down

https://www.youtube.com/watch?v=u1ZB\_rGFyeU

- As designers, be conscious of design principles and use them to your advantage
- It is not enough to say that a design is "good"
- Know why it is good.
- As designer, establish a style, brand is important

### Pixel/Rasterize vs. Vector graphics/path

# Components of Design

- Unity design harmony
- Gestalt psychology
- Space white space (less is more)
- Dominance focal point
- Hierarchy levels of relative importance
- Balance visual weight
- Design flow the way the eye moves
- Color

Design is a a practice, also a training. For us, learn the rules before you break them.

## Components of Design

- Unity
  - Visual Unity. *Eg: element aligned to common axis*
  - Conceptual Unity. Eg: diamond, mansion, piles of money -> concept of wealth
  - Use repetition, alignment, proximity to add visual unity

# Good design, why

- Instinct
- Or: one or more Gestalt principles of perception are at play.
- Gestalt Psychology: how are your design perceived

#### What is Gestalt?

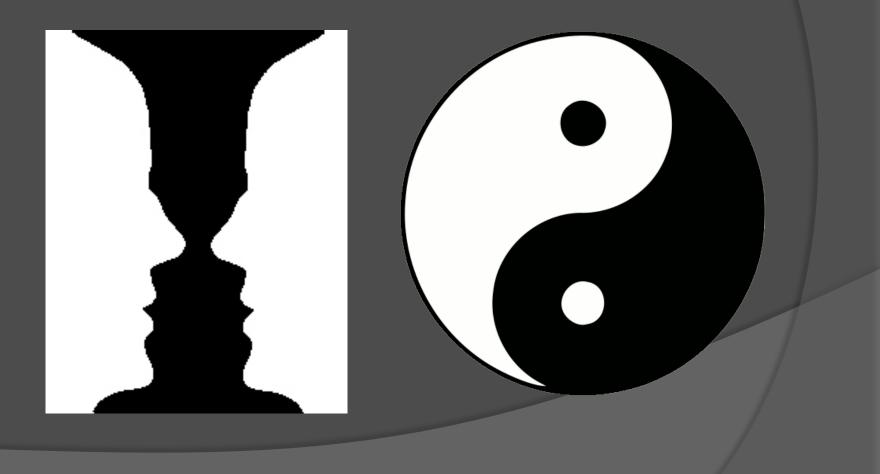
- The German word gestalt can be translated as "shape" or "form" and the term refers to how visual input is perceived by human beings.
- We see the whole before we see the individual parts.
- There are a variety of gestalt principles.

# Figure/Ground

- Elements are perceived as either
- Figure (focus) or ground (background)
- It occurs quickly and subconsciously
- Determine what to FOCUS
- What we can safely ignore

# Figure/Ground

### Classic example





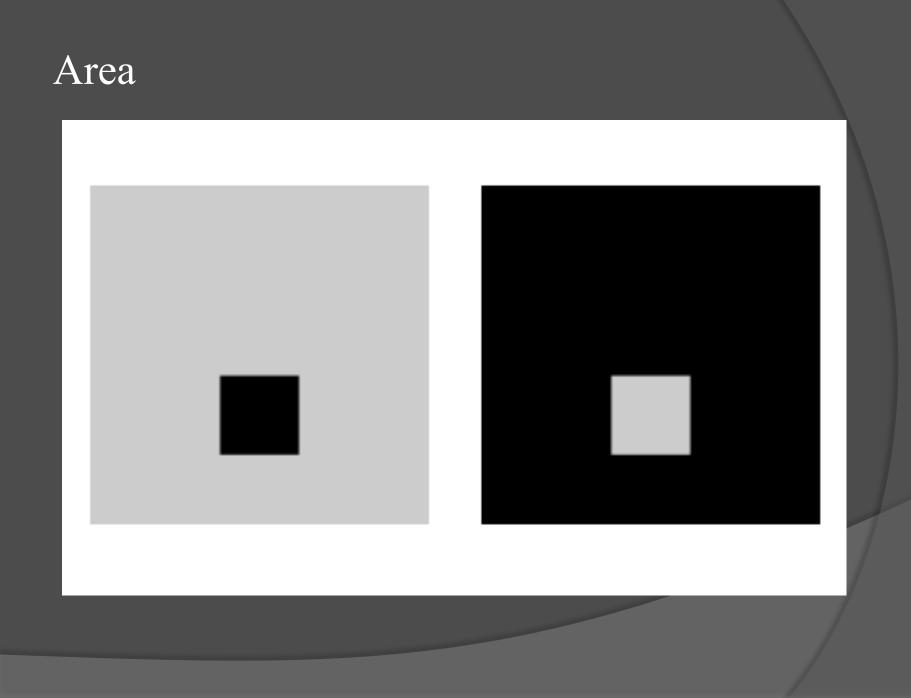
SURREY COUNTY COUNCIL

#### Also called: **Positive Space:**

Space occupied by an object, element, or subject in a composition.

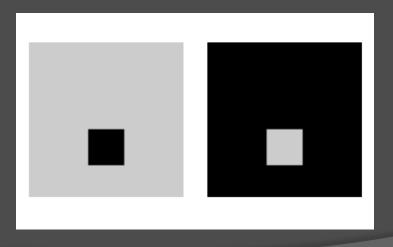
**Negative Space:** 

Unoccupied areas or empty space surrounding the objects or figures in a composition.

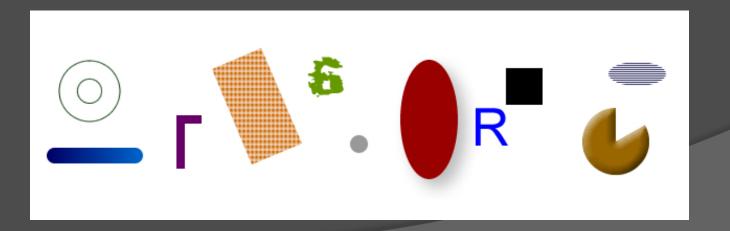


## Area

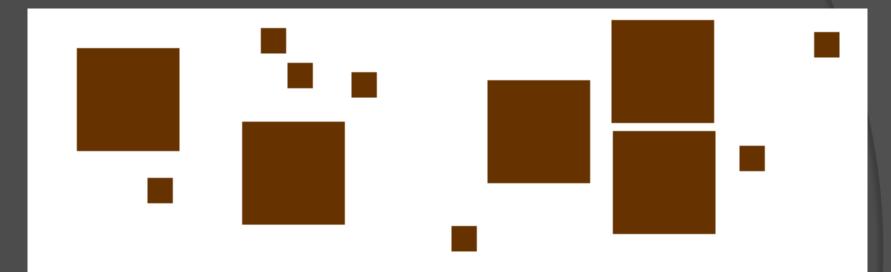
- The *smaller* of 2 overlapping objects is seen as *figure*.
- The *larger* is seen as *ground*.
- Image right: (dark figure with a hole) darker objects appearing more as figure than ground.



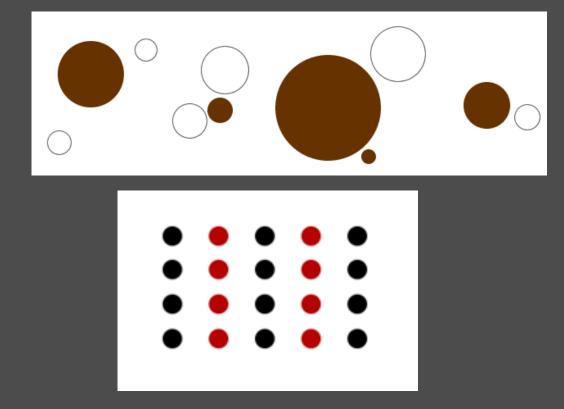
- Things are similar perceived to be more related.
- These include similarity of color, size, shape, texture, dimension, and orientation, to name just a few.



- There are differences between the many elements above, but there are also similarities.
- Shape provides the strongest communication.

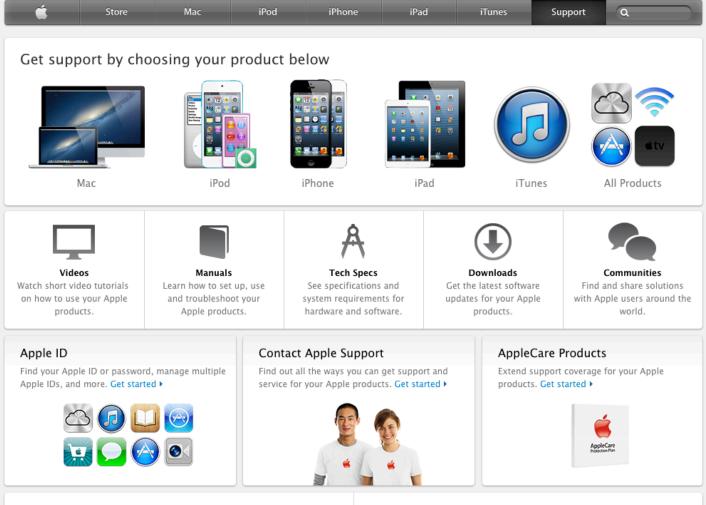


#### Size – suggest relationships



- Similarity of color
- Or you can say fill, or texture

# Similarity – use at web



#### Exchange and Repair Extension Programs

View details on current programs. USB Power Adapter Takeback Program + iPod nano (1st generation) Replacement Program + All Programs +

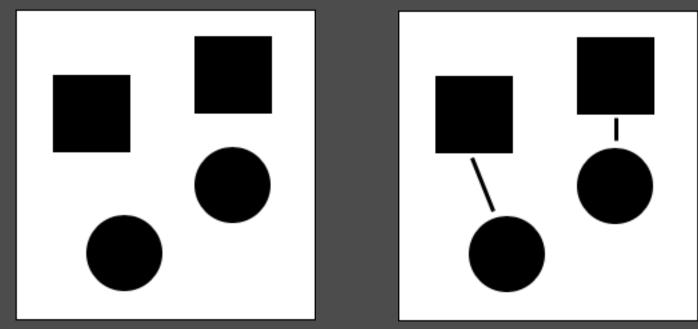
#### Other Resources

Check your service & support coverage > Check your repair status > Register and view AppleCare agreements > Support site map >

# Similarity - Through repetition of

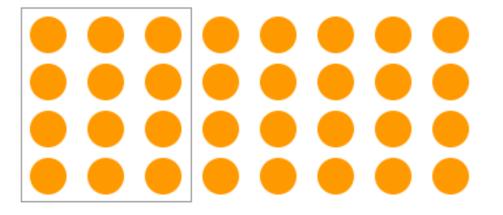
- Color
- Size
- Orientation
- Texture
- Font
- Shape
- We can design element so they appear more related.

# Uniform Connectedness



- Things has a visual connectedness are more related
- Uniform connectedness trumps similarity

Here, even though the spacing and color is consistent within this collection of elements, those inside of the connecting lines are perceived to be more related than the rest:



... as are the ones connected by lines:

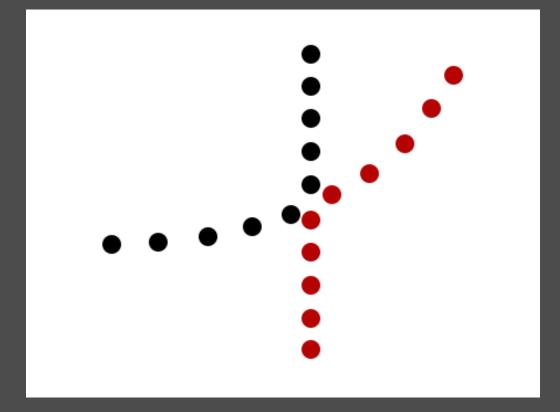
# 

# Uniform connectedness in organizing a complex interface



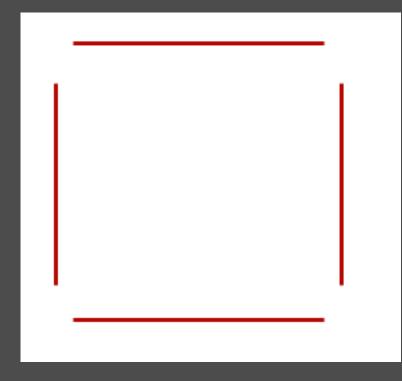
TOP HEADLINES	U.S. NEWS	WORLD NEWS	POLITICS	BUSINESS	ENTERTAINMENT	HEALTH	TECH &
	pectra	WORLD NEWS CHANNELS					
	visual newsreader	TOP WORLD NEWS	TOP WORLD CONFLICT IN TERRORISM AFRIC	AFRICA	MERICAS		
	NNELS	ASIA-PACIFIC	EUROPE	MIDEAST & N. AFRICA	SOUTH & CENTRAL ASIA		
		You've made me so happy. I want to spend the rest of my life with you!	t	wonder what ime the game tarts.			

# Continuation (continuity)



• Elements arranged on a line or curve are perceived to be more related.

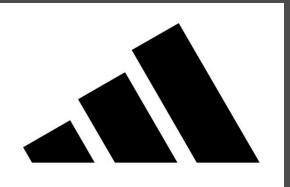
# Closure





- When looking at a complex arrangement of individual elements, we tend to look for a recognizable pattern.
- To make sense



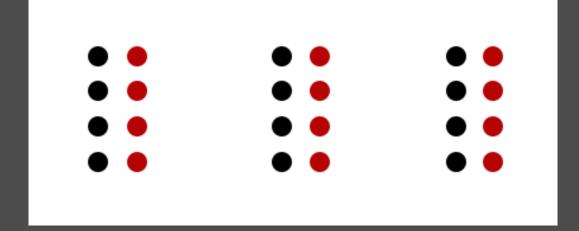


# Fun with closure

- Th prchas of a hme s lkely th sngle mst mprtant fnancl dcisn y'll evr mke.
- **1**, 3, 5, <u></u>, 9
- There once was a man from Nantucket...
- <u>http://youtu.be/Hodp2esSV9E</u>

Bobby McFerrin Demonstrates the Power of the Pentatonic Scale

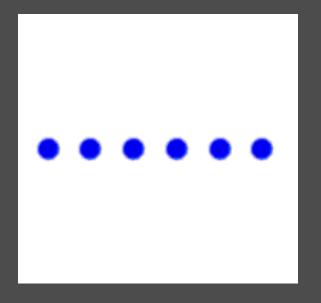
# Proximity



The relative nearness of the circles is stronger than the similarity of the colors.

Related items should be grouped together Eg: look at websites

# Common Fate



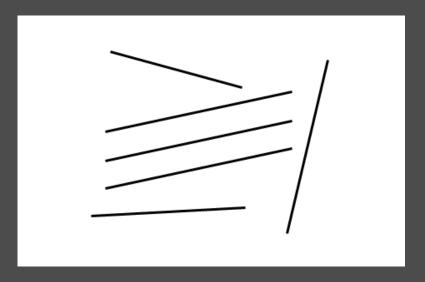
 Humans tend to perceive elements moving in the same direction as being more related than elements that are stationary or that move in different directions.

# Symmetry

# $\{ \} \{ \} \{ \} \} \{ \}$

Symmetrical balance is even stronger than proximity

# Parallelism

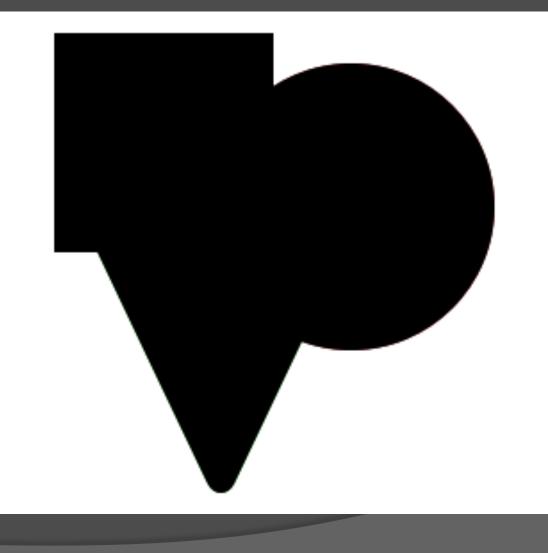


• Elements that are parallel to each other appear more related to each other.

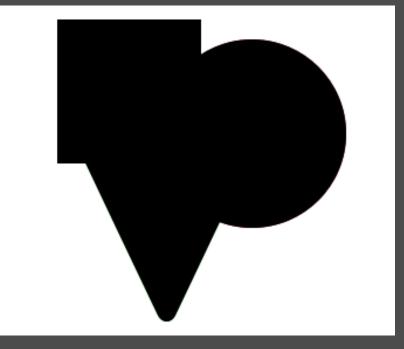
### Past Experience

- Elements tend to be grouped together if in the past experience of the observer they were often grouped together.
- Past experience could be individual or it could be something common most of us experience.

# Law of Prägnanz (Law of Simplicity)



# Law of Prägnanz (Law of Simplicity)





Ambiguous and complex as a whole

We will break it down to simple shapes

# Focal Point/Dominance

- A point of interest, emphasis, or difference will capture and hold the viewer's attention
- The focal point captures your attention and from there your attention flows to other parts of the painting.

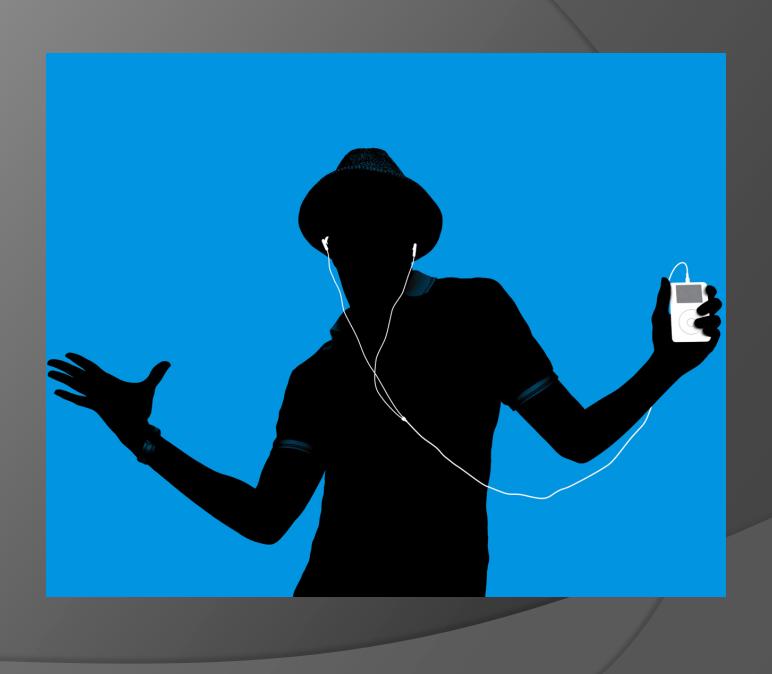


Kandinsky's Composition #8

# Creating focal point

- Contrast with more more visual weight
- Varying degree of emphasis
- "don't make me think"



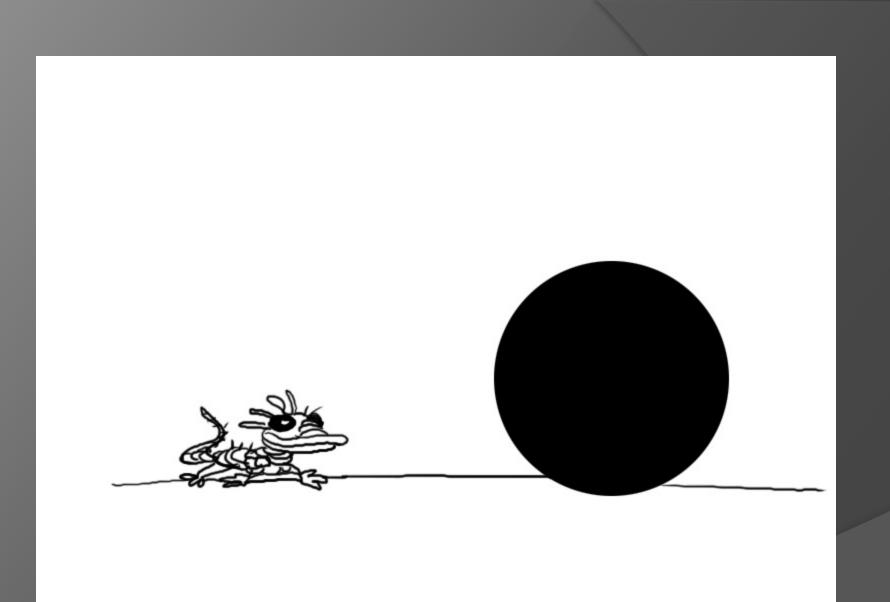




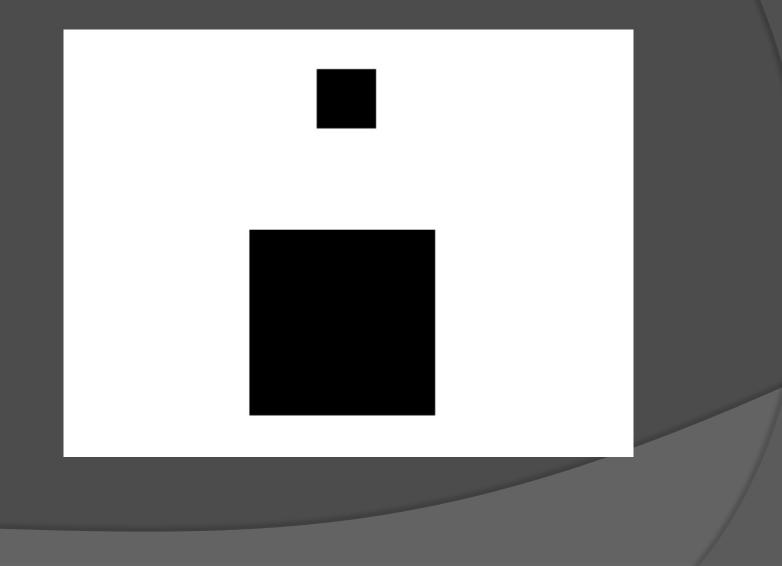


# Weight

- Size: larger = heavier
- Color: brighter = heavier: red> blue
- Density
- Value: darker = heavier
- White space/negative space = lighter
- Isolation make for weight
- Shape: simple geometry = heavier
- Knowledge influence weight



## Top and bottom...



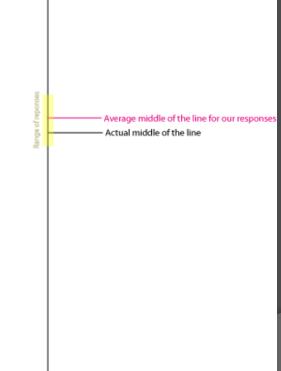
#### Top and Bottom:

"weight counts more in the upper region..." (Arnheim, p.30)

Therefore, objects in the upper region need to be smaller than objects in the lower region.

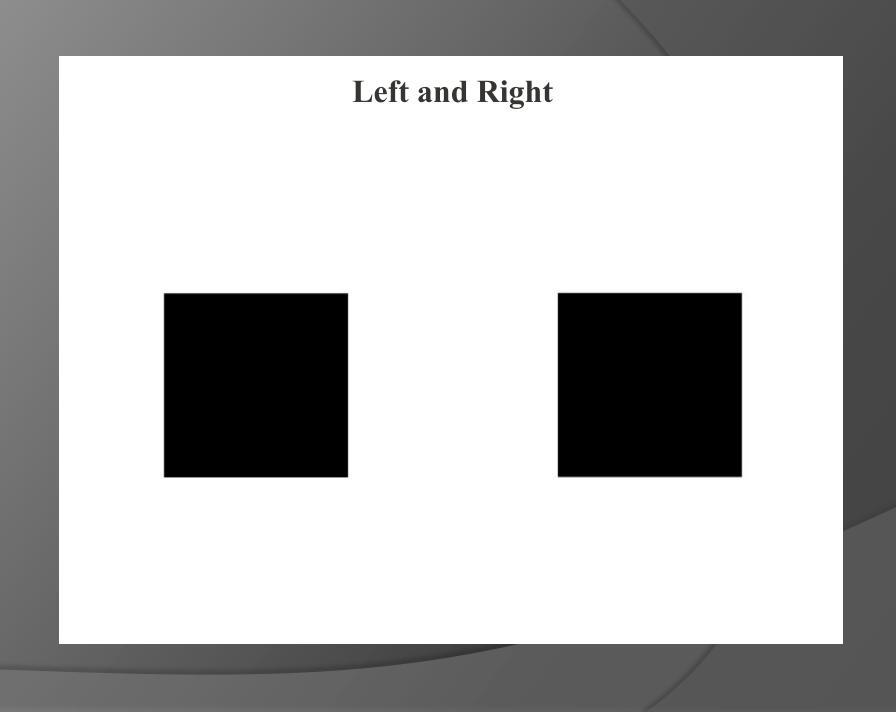
# In general, people tend to divide the line *higher* than the middle. A shorter top-half looks like a "normal" halfway point to us.

Without measuring (i.e. entirely "by eye"), draw a horizontal line that bisects the vertical line below. Try to get the top and bottom halves of the bisected line to look as close to equal as possible.









### Left and Right

Any pictorial object looks heavier at the right side of the picture.

To compensate for this, generally, an object on the left needs to be larger than the object on the right to create visual balance.













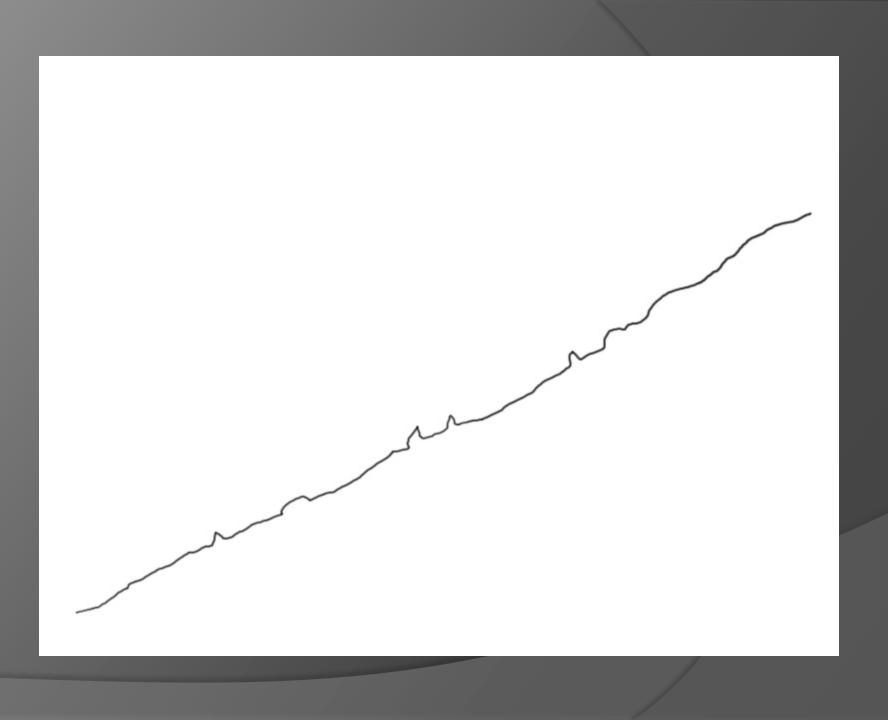
### Left and Right

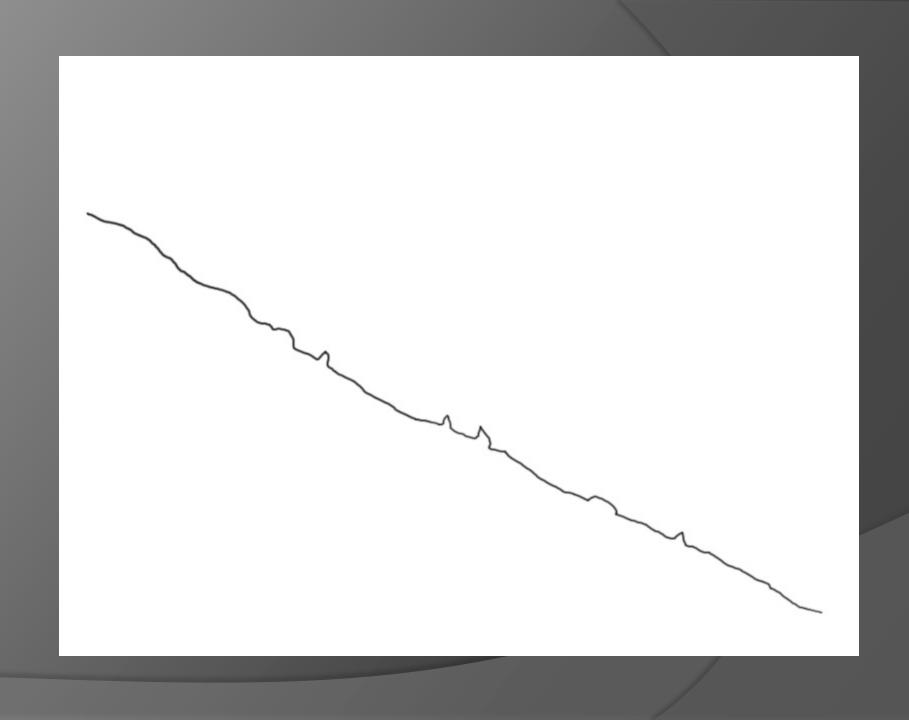
Pictorial movement from the left to the right is perceived as being easier, requiring less effort, while the opposite direction overcomes more resistance.

Is this cultural?

### Left and Right

A diagonal that runs from bottom left to top right appears to ascend, while the opposite descends.



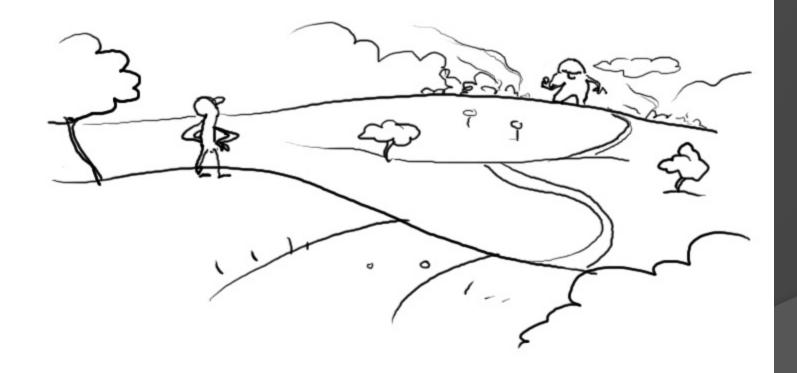


**Spatial Depth:** 

The greater the spatial depth an area of the visual field reaches, the greater the weight it carries.



#### The Taj Mahal



#### **Color:**

Vivid color has more weight.

Therefore, a vivid colored object needs to be smaller than a less vivid object.

red> blue

# white expands

# black contracts

# white expands

# black contracts



**Intrinsic Interest:** 

Subject matter, formal complexity, intricacy, peculiarity.

Think of this as "the most detailed" element

#### **Isolation:**

Objects surrounded by empty space have more visual weight.



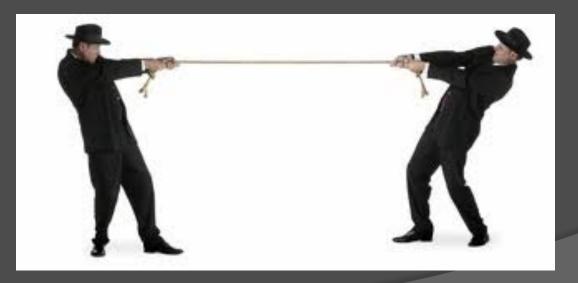


# Thomas Eakins, "The Agnew Clinic"

# Balance

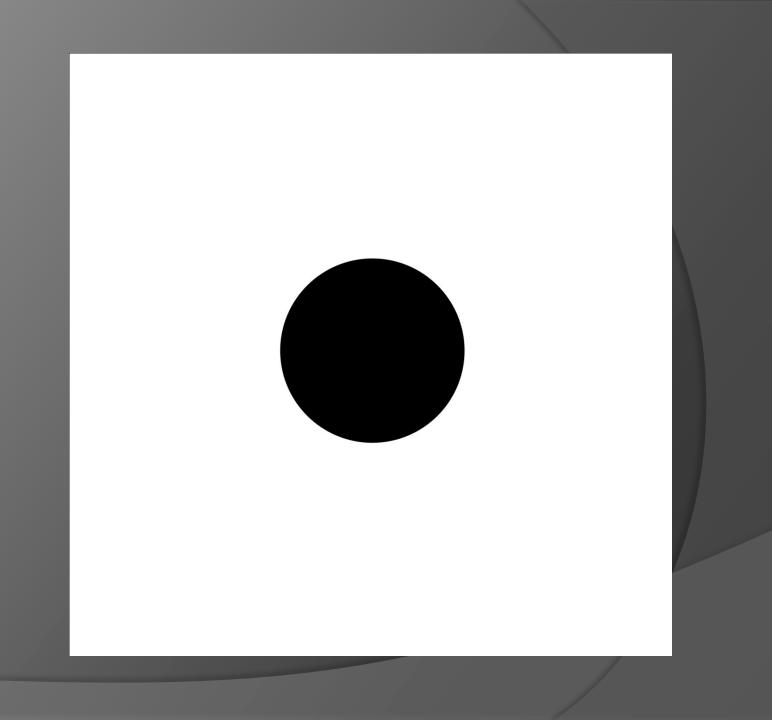
# Balance (physical)

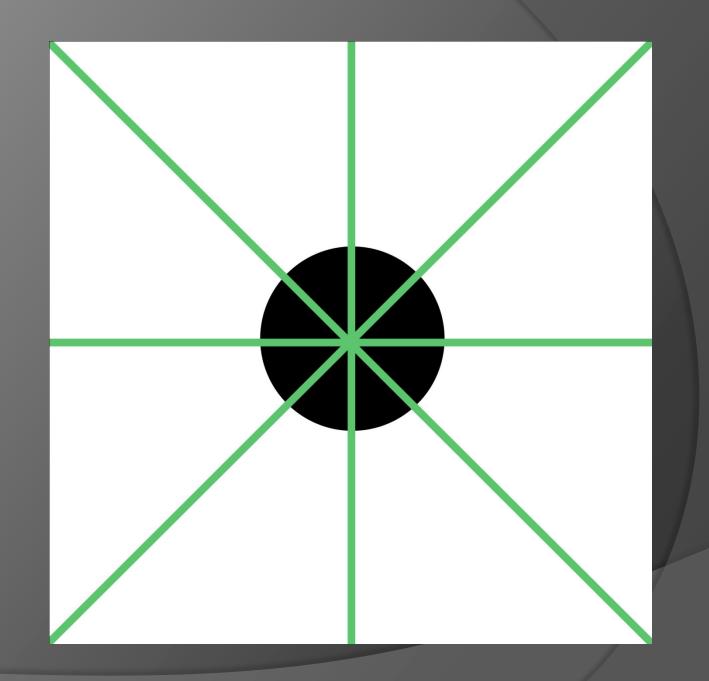
 Balance is a state in which the forces acting upon a body compensate one another. It is achieved by two forces of equal strength pulling in opposite direction.

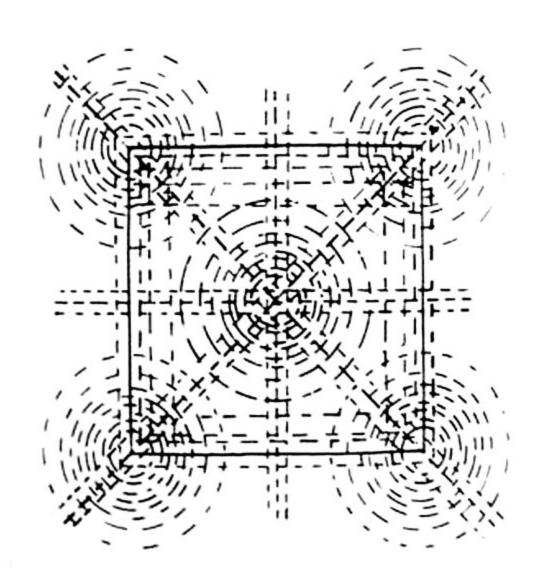


# Balance (visual):

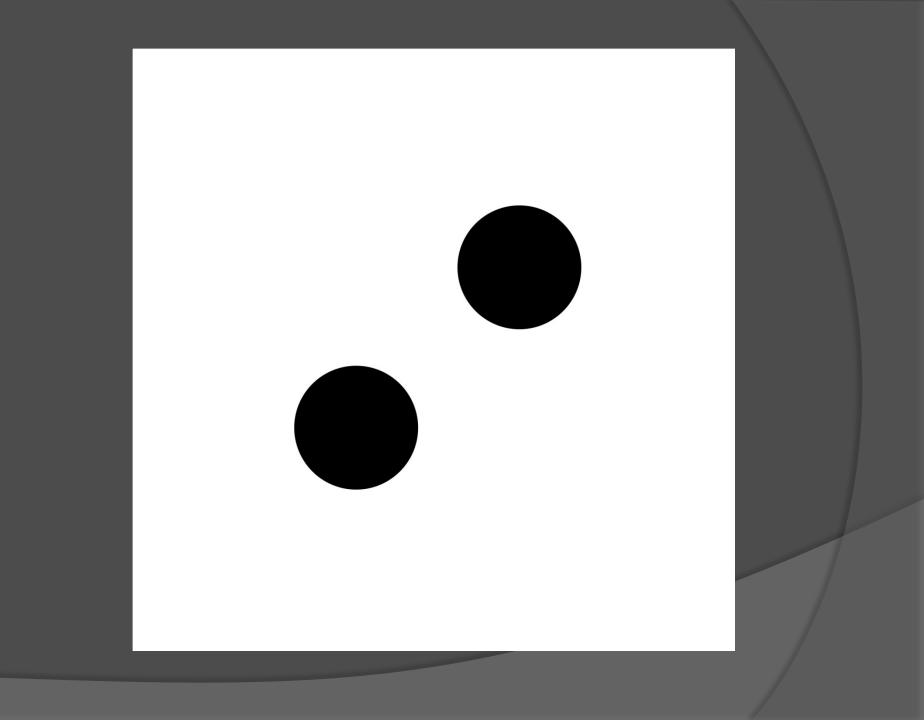
- Is a state of distribution in which all action has come to a standstill.
- All factors such as shape, direction, and location are mutually determined in such a way that no change seems possible.

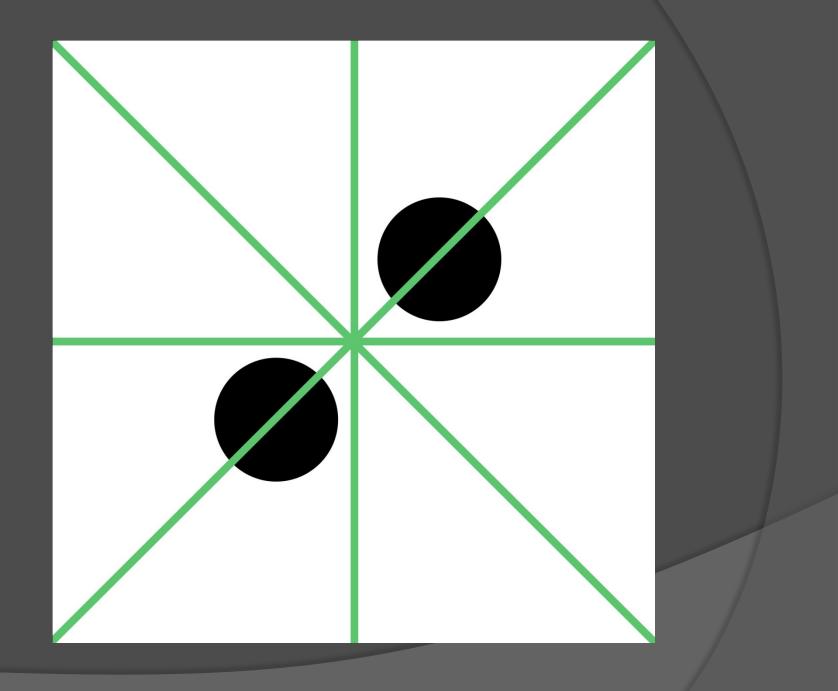


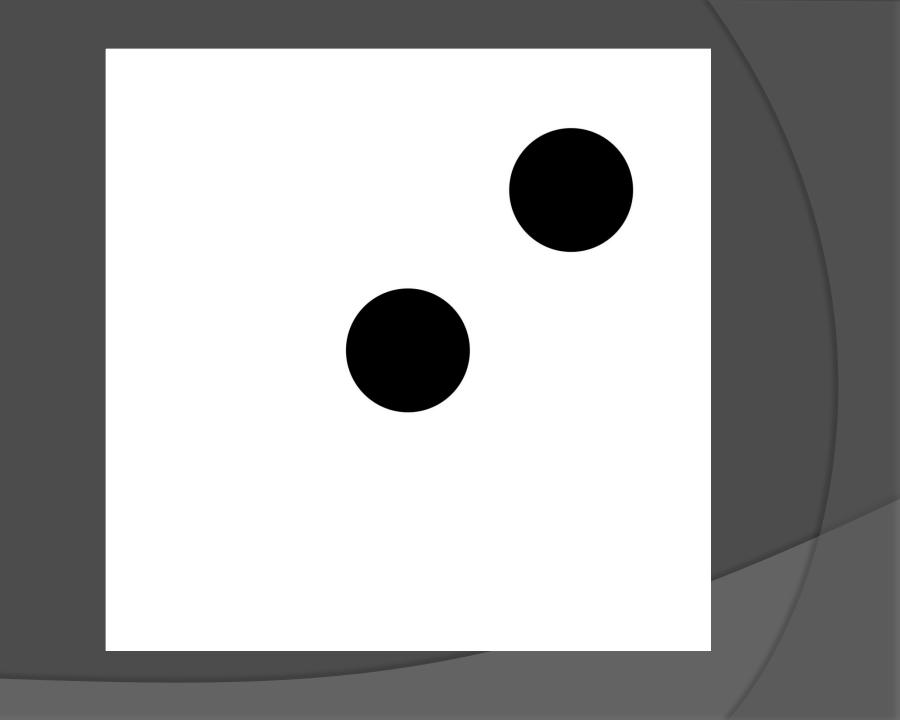


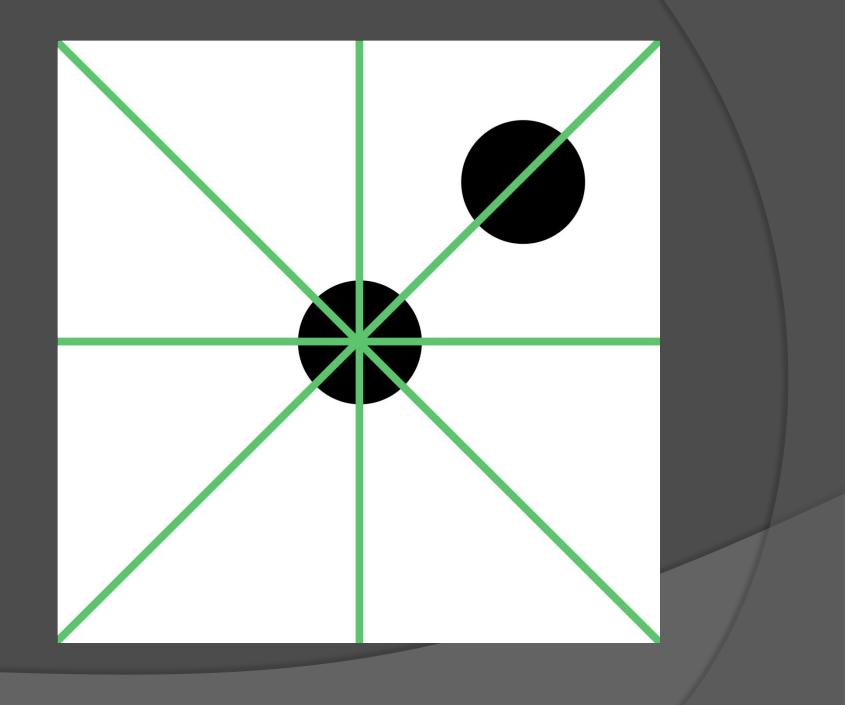


# Structural Skeleton (Arheim)









Aka Structural framework: Krause, 79-89

Alignment between elements...

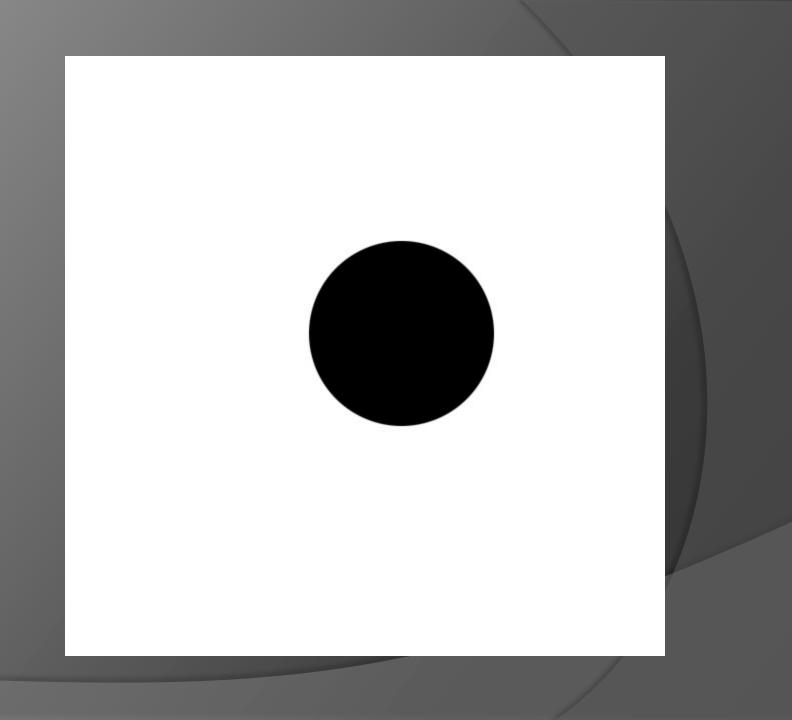
Can be used to create a sense of agreement, soundness and unity within a piece

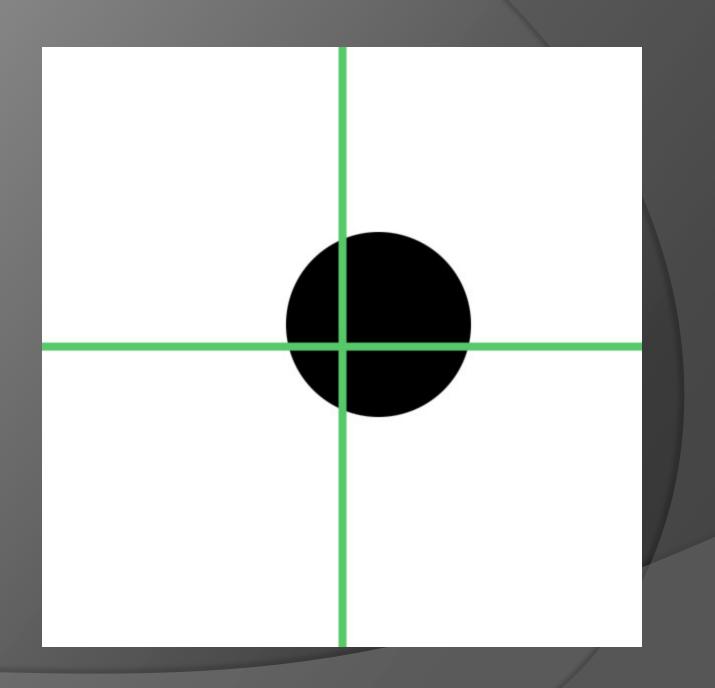
Visual perception is **dynamic.** Images are static, *but "alive" with tension*.

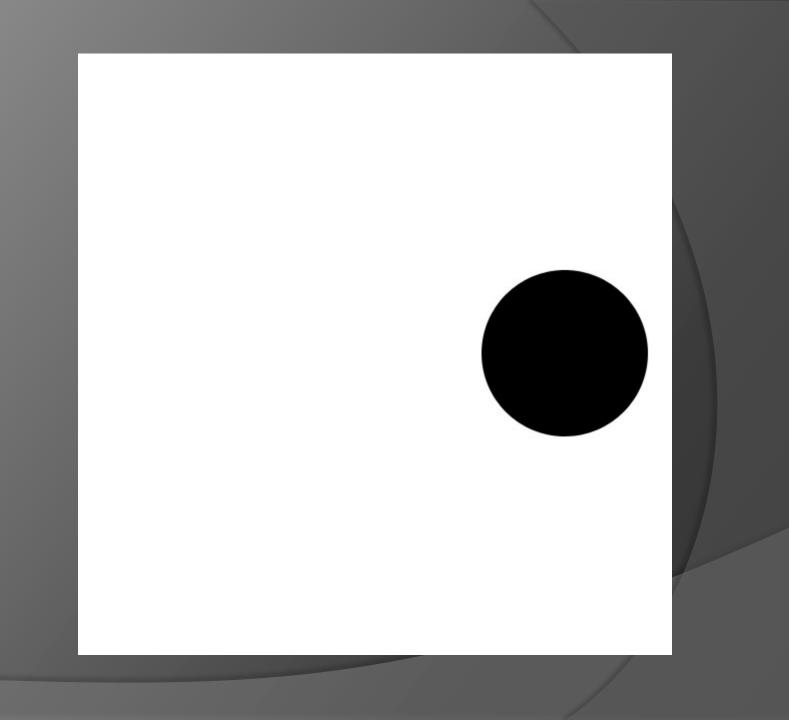
#### **Location & Lever Principal:**

Objects off the structural skeleton have more weight.

The weight of the visual element increases in relation to its distance from the center.







# Ambiguous:

an unpleasant effect is produced by locations at which pulls are so equivocal and ambiguous that the eye cannot decide whether the disk is pressing in any particular direction.

It is unclear, wavering.

## **Composition:**

The way in which the components of a design are visually combined and arranged.

Composition can also set mode/emotion

Takes into account placement, grouping, alignment, visual flow and the divisions of space within a layout.

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02/16	And Ar MORE + Spaces, Symbols & Such Tuesday > 1 pm	Happy President's Day! From the "The Presidents of the United Sta http://bit.ly/91ac0w @ Tweet   02.15.2010	ates" OPENING				
<u>02/16</u>	<u>Gallery Conversation:</u> <u>Birds &amp; Bowls: Asian</u> Paintings and Ceramics	More Than Pe Blog   02.12.201	17. Jug 2	y A John	Keep Us Fr ADMISS PARKIN	ION	
02/17	Tuesday » 2 pm Bending the Rules	In the Mood for Love? Take the T <u>http://bit.ly/bMiJ2J</u> 값 <b>/ T</b> weet   02.12.2010		VENTUROUS.	WI-FI EXPRES All free.		
	Wednesday » 1 pm Framed! Go to the Edge	Cool! There's an electric car INSI Museum. Want to know why? <u>ht</u> <u>ib5hFcm</u> @ Pictures coming.		bership	Nourish Ca	fé	
<u>02/18</u> <u>02/18</u>	Thursday » 1 pm Meditation Hikes Thursday » 4-5 pm	Tweet   02:11:2010		MEMBER. MAZED.	LOCAL, ORGANIC NUTRITIC FARE,		
<u>02/18</u>	Happy Hour Thursday » 5-9 pm	So You Think Blog, Jenni Cla Blog   02.10.201	arkson?	/ideos	•		
<u>02/18</u>	Chef's Taste Series Thursday ≫ 6:30-8:30 pm	Snowed in? Spend the day explo NEWWeb site: <u>http://www.imamuseum.org</u> check out the Collections Search	Be sure to				



**Symmetry:** When a perceived object is given equal value and function in the whole. It is the quality of being made up of similar parts facing each other or around an axes.

... It is the most elementary form of balance, evoke feelings of *consistency, elegance and classicism*, and can be boring: non-dynamic.

Example: most invitation

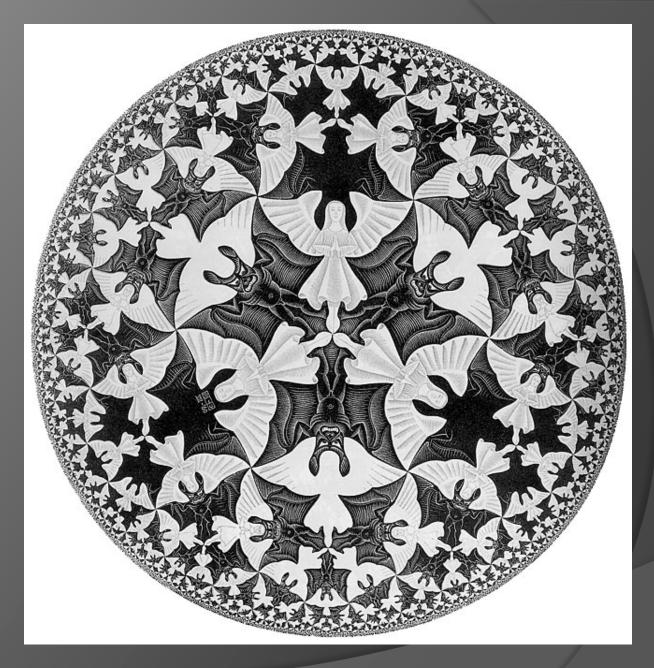


Leonardo's Last Supper is a great example of symmetrical balance in art. For everything on the left side of the painting there's something of equal weight on the right.

The entire painting is balanced around the central figure of Jesus Christ, which makes perfect sense given what the painting is about.

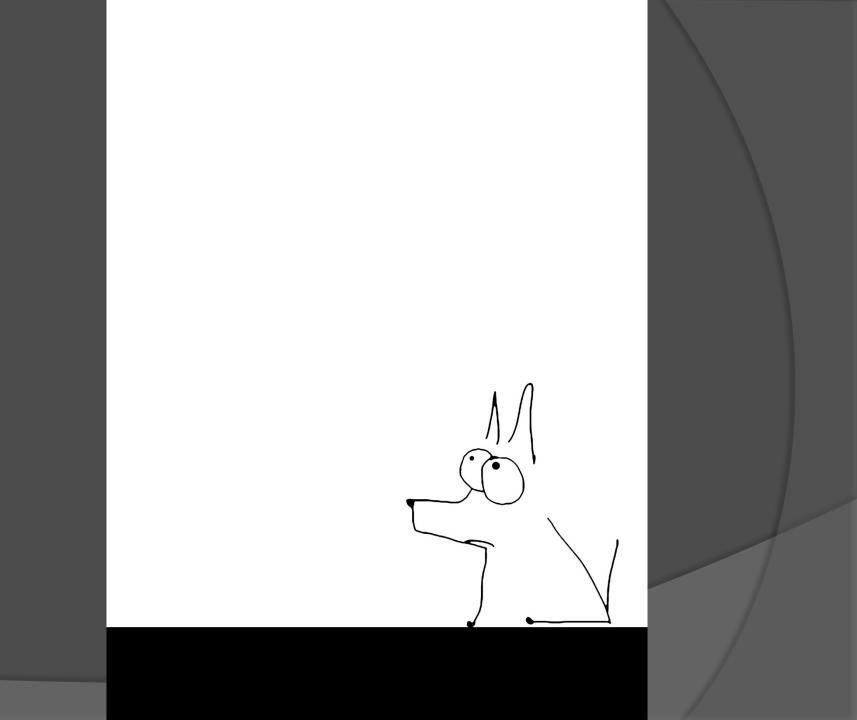


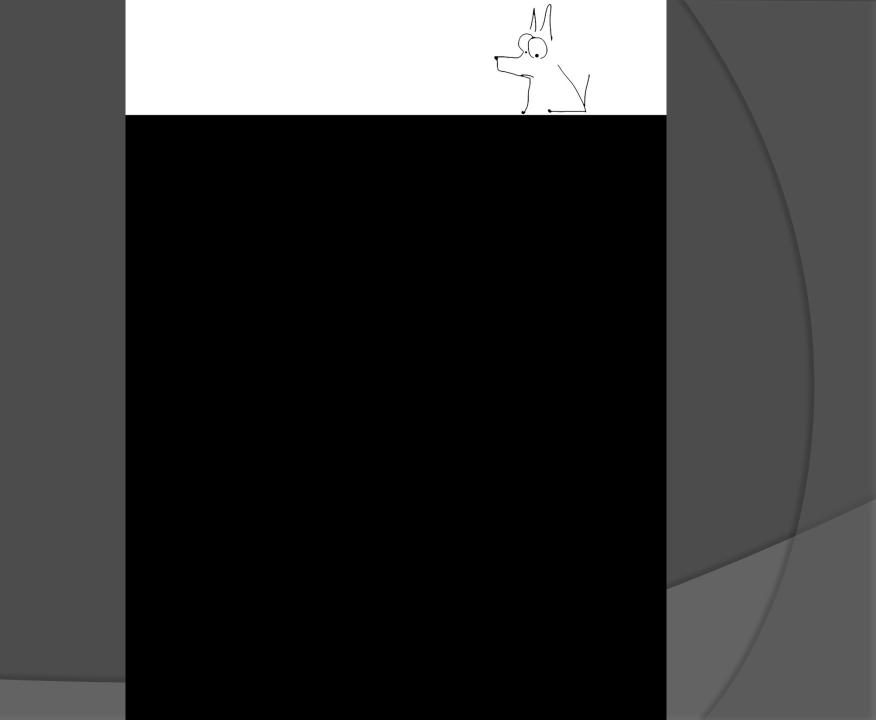


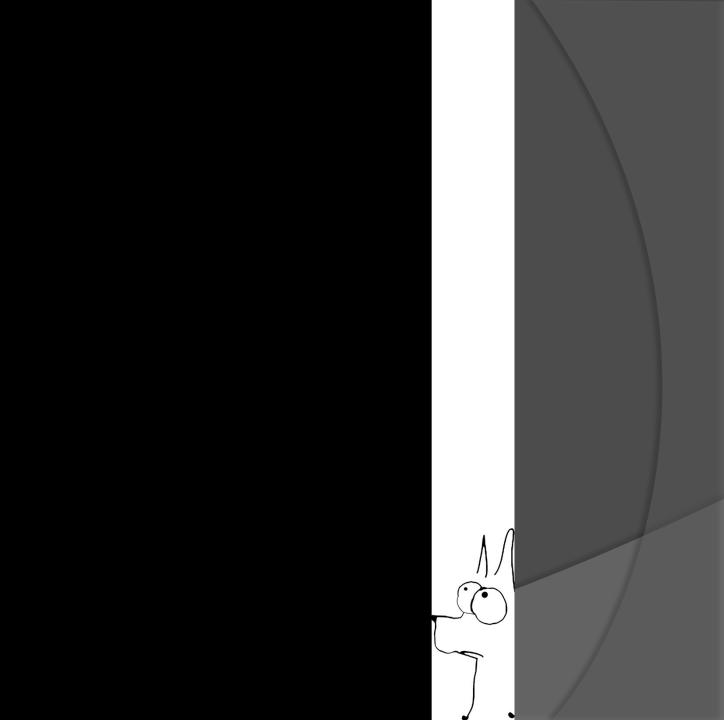


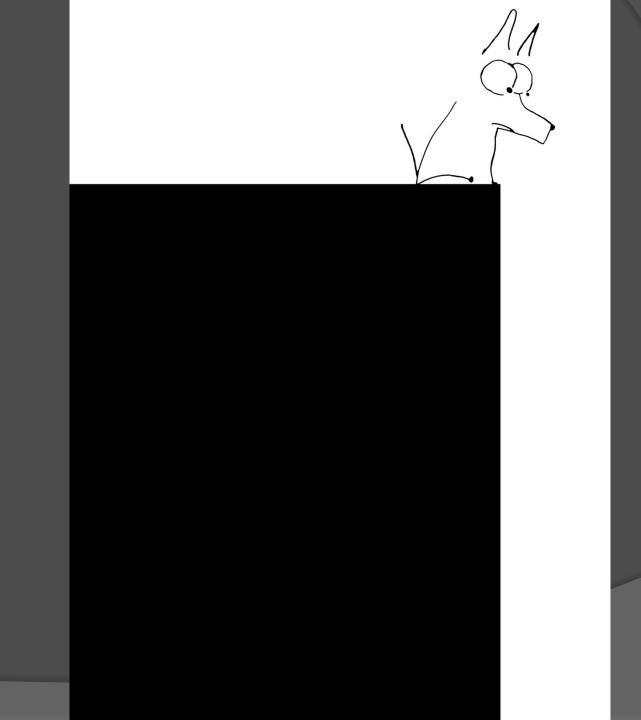
#### M.C. Escher

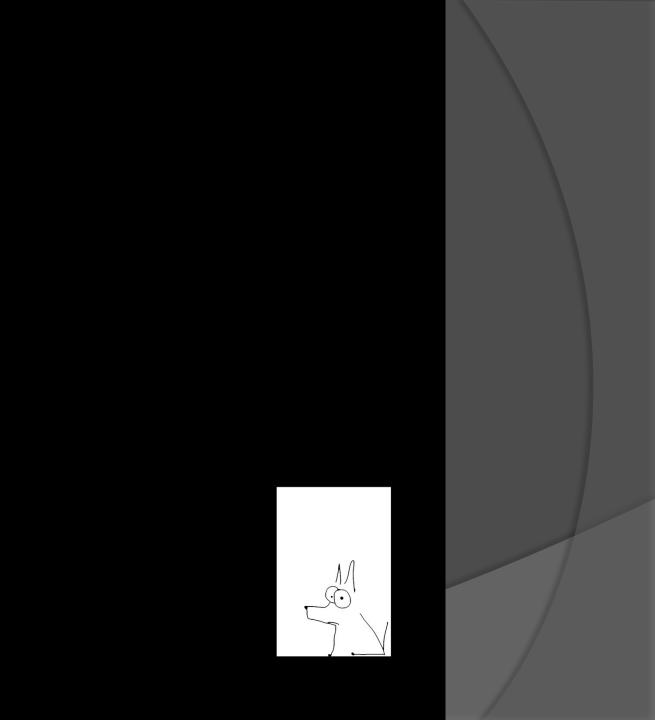
 By training your eye and learning to control the weight of different elements you'll be able to achieve balance in your compositions and create more appealing designs.

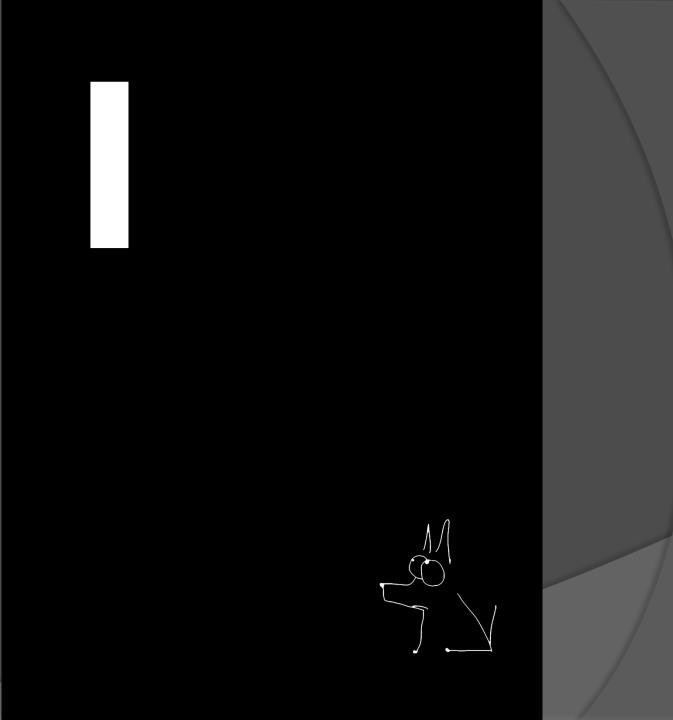


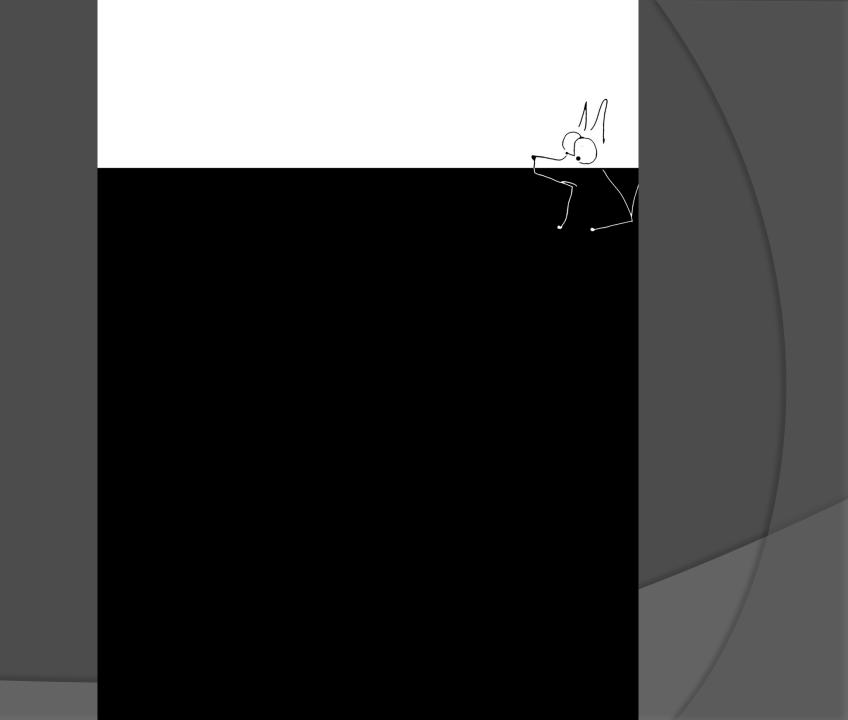


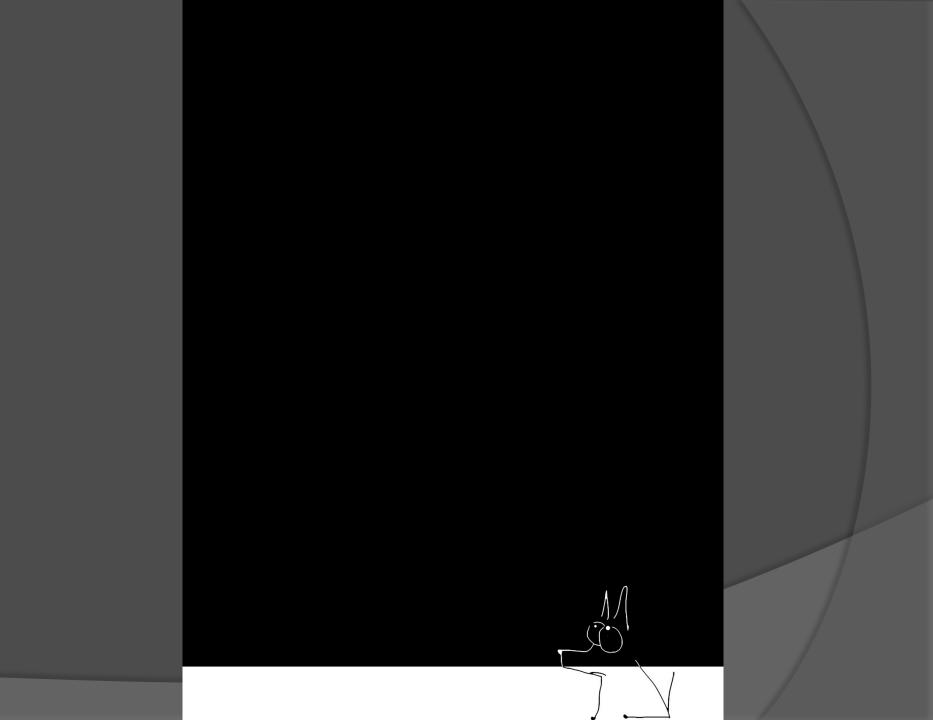












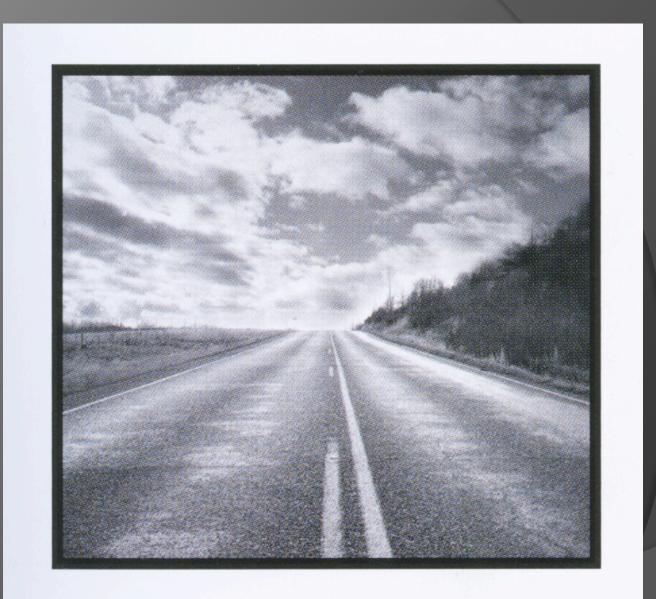
### **Principle of Unequal Spacing:**

By varying the measurements between an object and other elements...the division of space with in a layout can be enhanced

## **Rule of Thirds:**

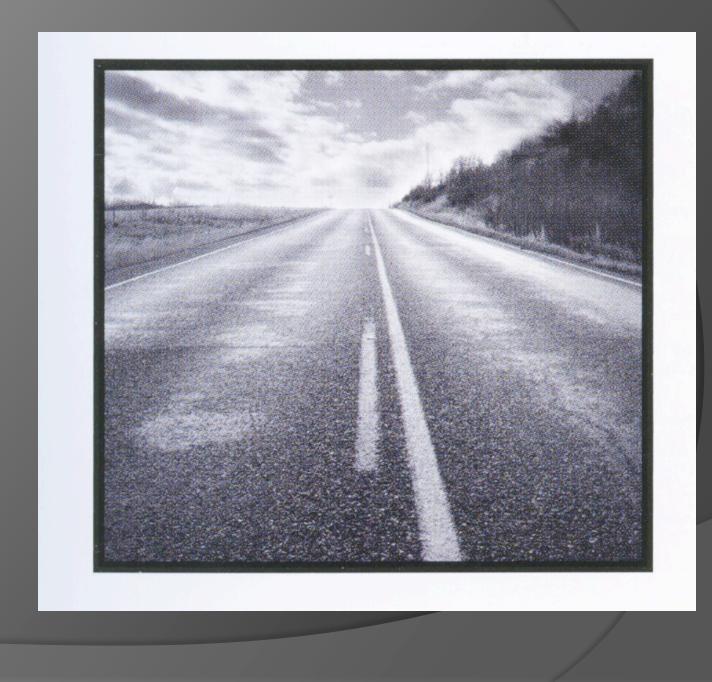
- The visual field is divided in to three equal vertical parts and three equal horizontal parts.
- Placing objects, or dividing the space in relation to these thirds tends to be visually pleasing.





# Dead center - ambiguity





























Unequal spacing creates "tension" and energy

It is an interplay of **directed tensions**.

"These tensions are not something the observer adds, for reasons of his own, to static images. Rather, these tensions are as inherent in any percept as size, shape, location or color."

## Asymmetry:

the lack of equality or equivalence between parts of something

An asymmetrical image might be balanced, or might be unbalanced.





#### **Unbalanced:**

a composition that looks accidental, transitory, and therefore, invalid. Incomprehensible, and ambiguous.

### Balanced = Clarity / Clear relationships

### Unbalanced = Unclear, ambiguous

Two properties of visual objects have a particular influence on equilibrium:

weight and <u>direction</u>

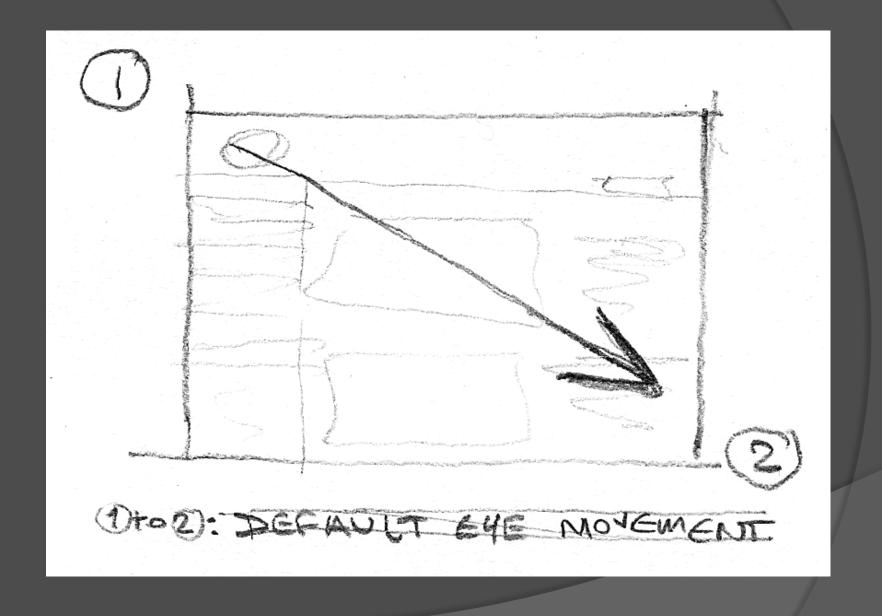




### Flow:

Carrying the viewer's eye from one place to another.

- Verbal Flow the path taken when reading text on the page
- Visual Flow the path taken when looking at images and graphics on the page



### **Regional Planning**

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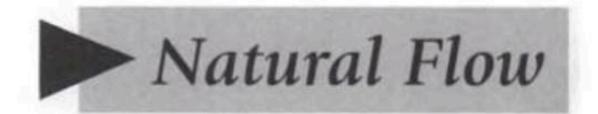
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### Improve visual flow

- Use the direction of images to control the the speed and direction of flow
- Create barriers when you want to reverse the eyes direction
- Create open paths to allow easy movement through your design
- Use contrasting colors and shapes to pull the eye

Visual flow devices



## s go ahead & point

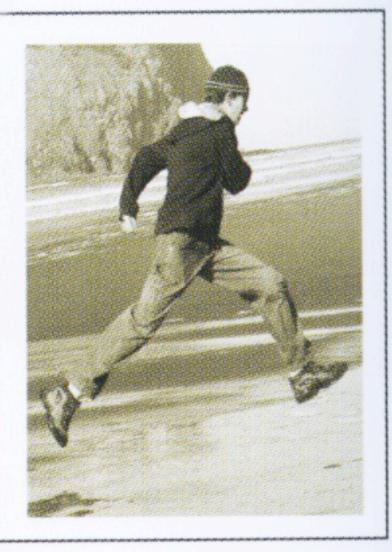
Figure 7-9 The arrow and the hand dingbats are natural visual flow devices that point to important points.

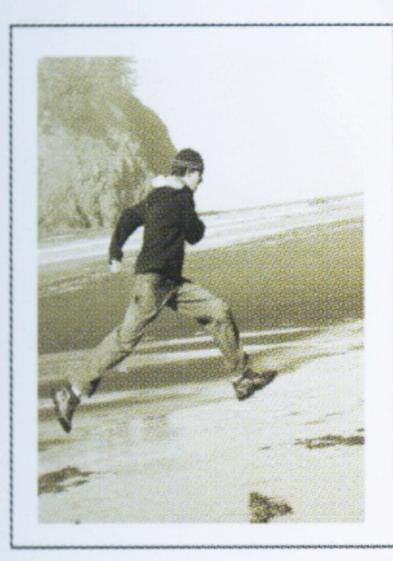




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Seashore





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# W

Handcrafted Contemporary Furniture

TURNER&HOLMES



TURNER&HOLMES

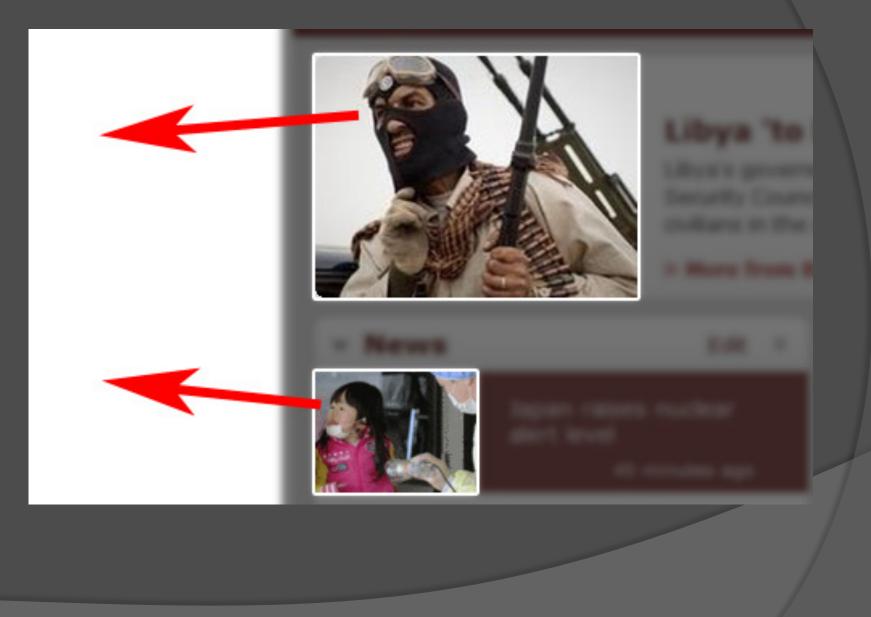
### dcrafted temporary

Handcrafted Contemporary Furniture

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### Sign: which side your gas pump is located







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### Homework

Analysis Paper



