

Seeing Perspective in Our Everyday World





Walking down a tunnel



Bridge



Walking down a hallway

The History of Perspective



The History of Perspective in Art

Renaissance Painting



Perugino, Pietro
Giving of the Keys to St. Peter, 1481-82

2) Perspective drawing was first used during the Renaissance Period.

The Renaissance was a cultural movement that spanned roughly in the 14th to the 17th centuries in Europe.

The Greeks and Romans understood perspective, but over time, their knowledge was lost.

It was 15th Century Italian architect and engineer Filippo Brunelleschi who re-discovered the laws of perspective.

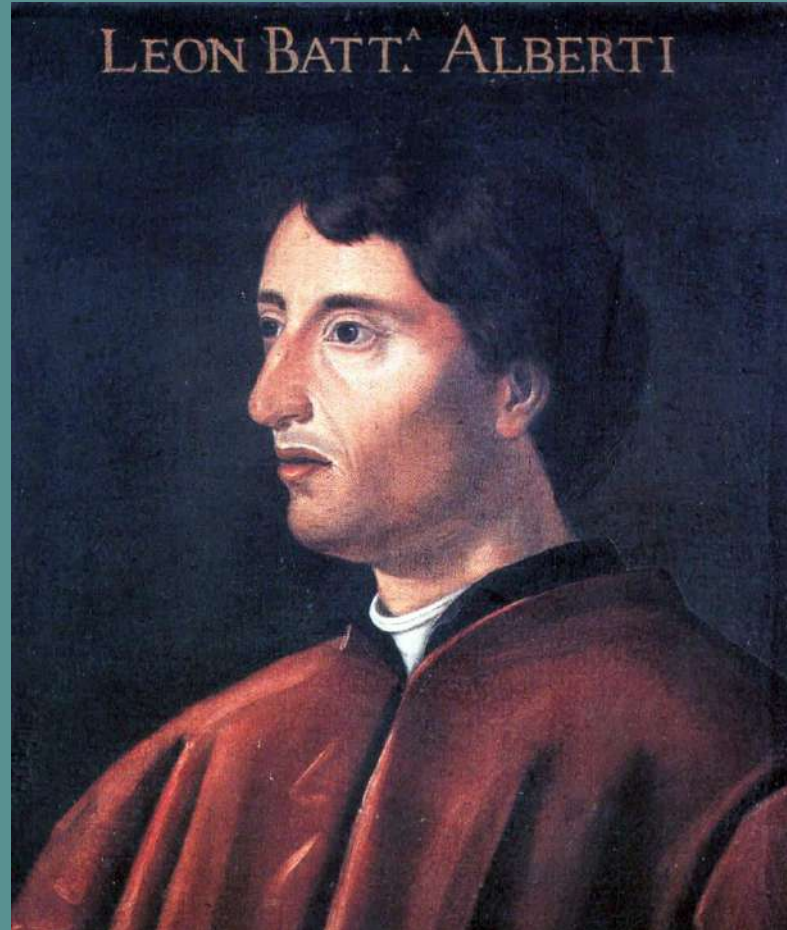
He demonstrated a mathematical approach that proved how forms and space shrink in size according to their location and distance from the eye.



 Then, in 1435 Leon Battista Alberti discovered the first theory of linear perspective.

He published his treatise *Della Pictura* (On Painting) in which he too relied on mathematics as the common ground of art and science.

Alberti's discovery had an enormous impact on European artists and is still used by artists, designers and architects today.




Artist: Raphael Sanzio
Title: *The School of Athens*



The background of the slide is a photograph of a museum display. It features a large, dark, circular frame that encloses the text. Inside the frame, there are several orange, cone-shaped objects on a blue surface. The text is written in a red, serif font and is positioned in the upper half of the circle.

Where is creating perspective
used in the real world today?

What professions use
perspective drawing/design?


- 
- Architects
 - Video game designers
 - Graphic designers
 - Landscape designers
 - Artists



Halo 4

Today many of you see a type of linear perspective used daily in your video games.

Perspective is used to create environments that mimic what you see in real life.

The background is a painting of an interior scene. In the foreground, a person with dark hair is lying down, partially visible. To the right, a young man with dark hair is shown in profile, looking down. In the background, another figure is visible, and there are orange-colored objects hanging on a blue wall. A large black circle is superimposed over the center of the image, and a semi-transparent white rectangle is placed within the circle, containing the text.

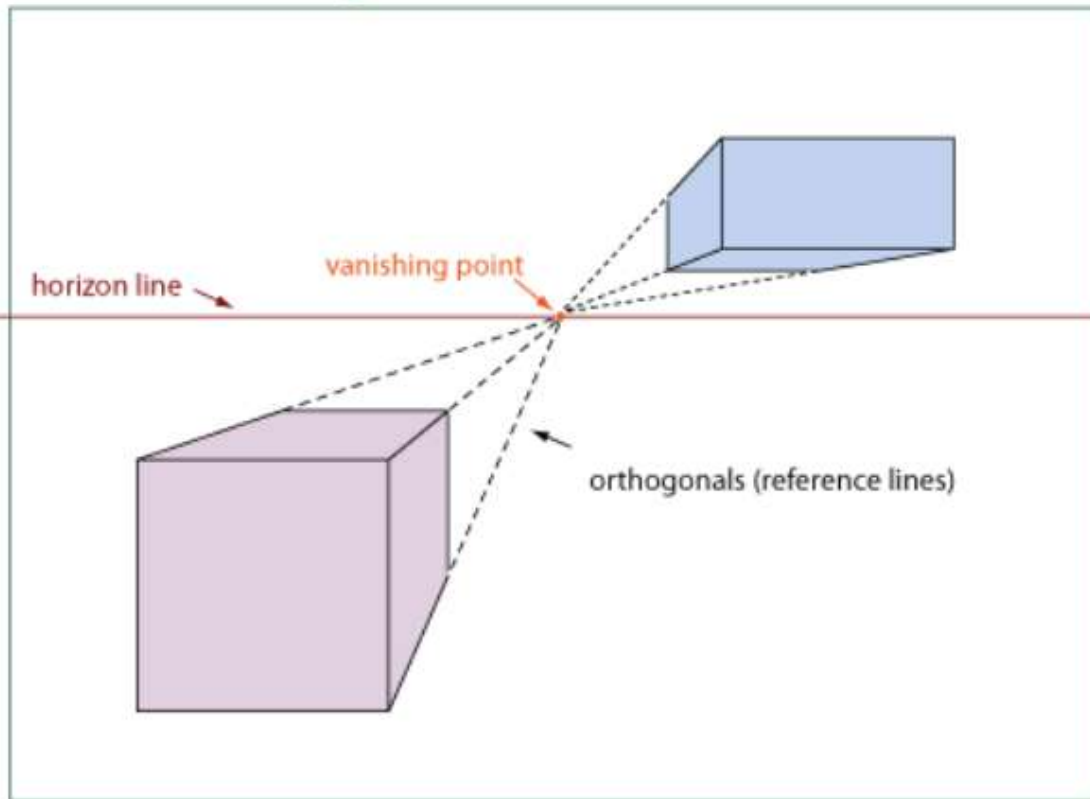
Perspective is
a way to make
your drawings
more realistic.

picture plane →

horizon line →

vanishing point →

orthogonals (reference lines) →



The background of the slide is a photograph of a person lying in a hospital bed, wearing a blue gown. A large black circle is superimposed over the center of the image, framing the text. The text is contained within a white rectangular box with a yellow header.

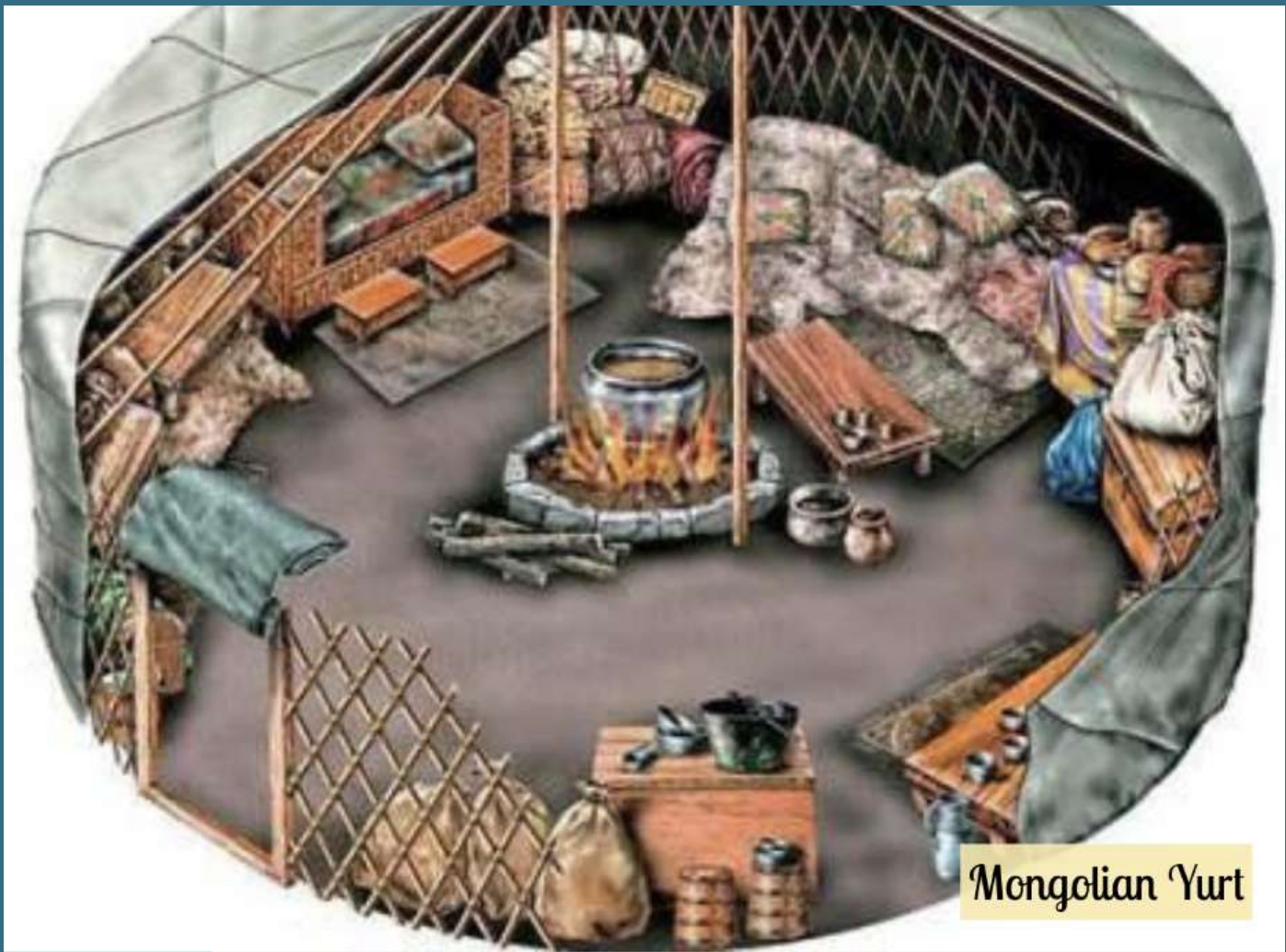
Day One Activity

- In your group, answer the following questions on ONE piece of paper.
- We will scroll through the questions as a class.
- Make sure ALL student names are on the paper.
- Turn in at the end of class.

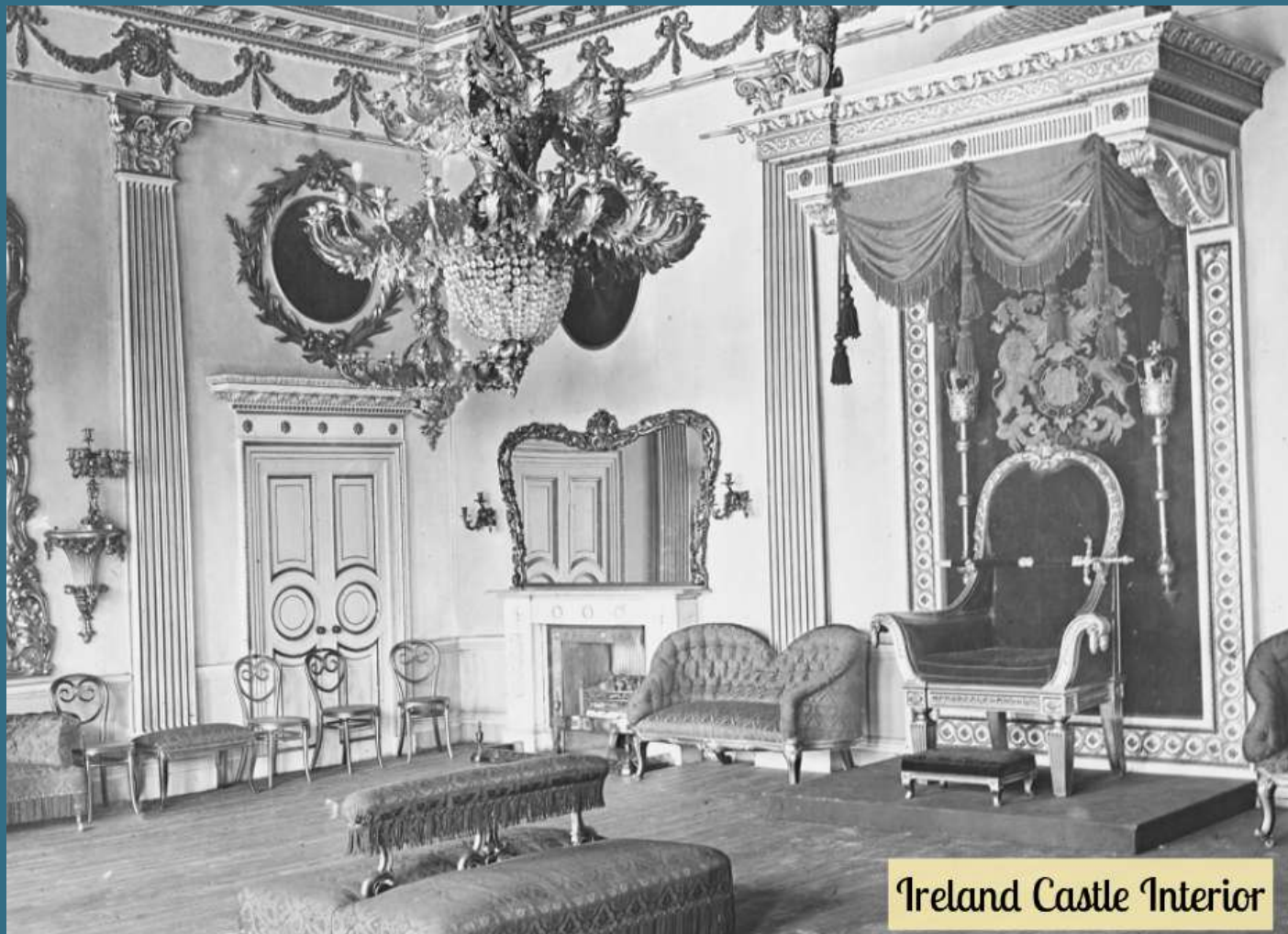
Question One

How have living spaces changed over time?





Mongolian Yurt



Ireland Castle Interior



Iroquois Longhouse



Native American Teepee



70's Lounge



Contemporary Kitchen

What elements are in a living space?

What are homes made of? (building materials)

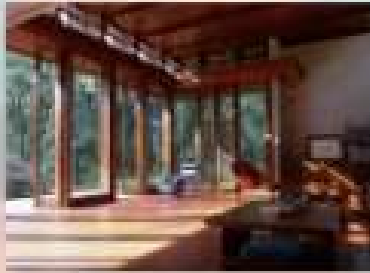
What building materials are used in different climates?





What materials?













Climate?



Climate







How does economics effect design choices?

Does cultural history impact or influence your home design?

What household objects would represent your identity?



Economics



Johnny Depp's Home







Cool object!





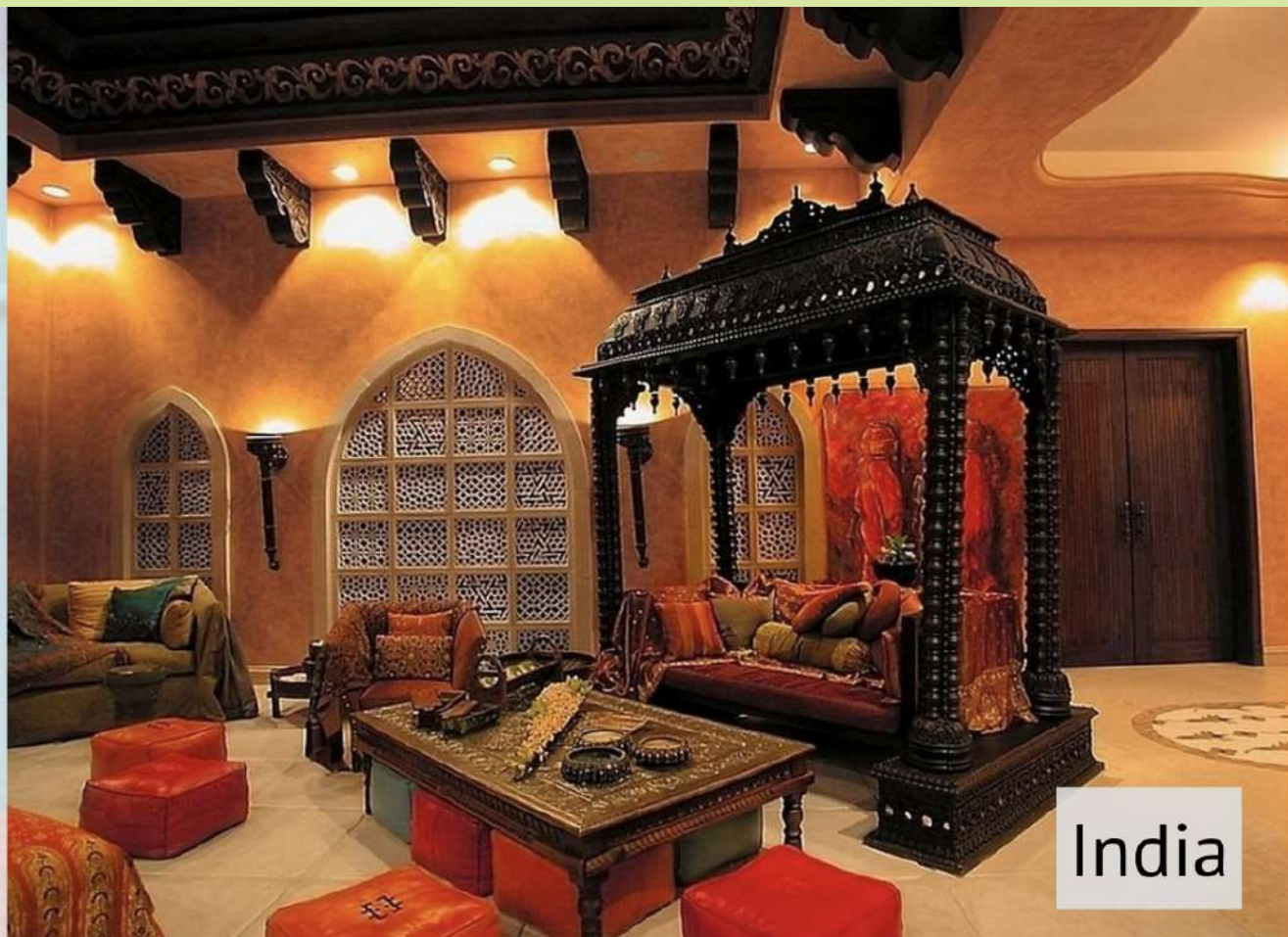
Culture



India



Japan



India



Greece




What It Takes to Be an Interior Design Trendsetter in Vietnam



Transforming Your Home with Thai Style







Identity







"Outside In"











Last set of questions for today...

What's the difference between a home and a living space?

How does global perspective affect how we define our needs and wants.



Vocabulary

Vocabulary Activity

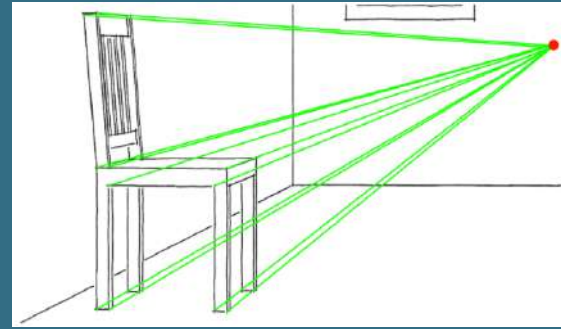
What I think it is	Drawing
Perspective (Perspectiva)	
Definition	
Perspective (Perspectiva)	

There are **3 main types**
of linear perspective:

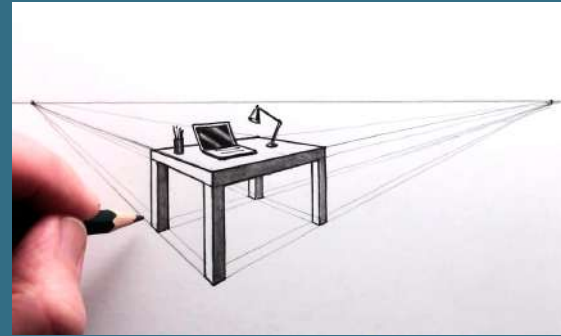
**One-Point
Perspective - 1pt**

**Two-Point
Perspective - 2pt**

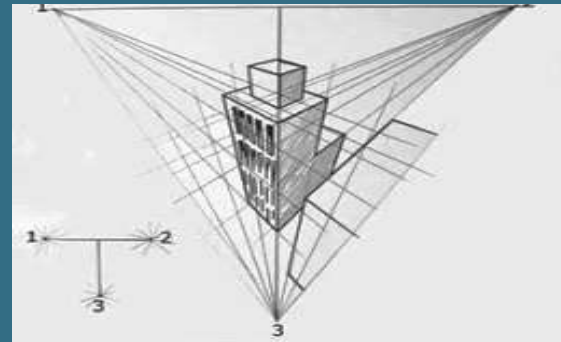
**Three-Point
Perspective - 3pt**



1pt

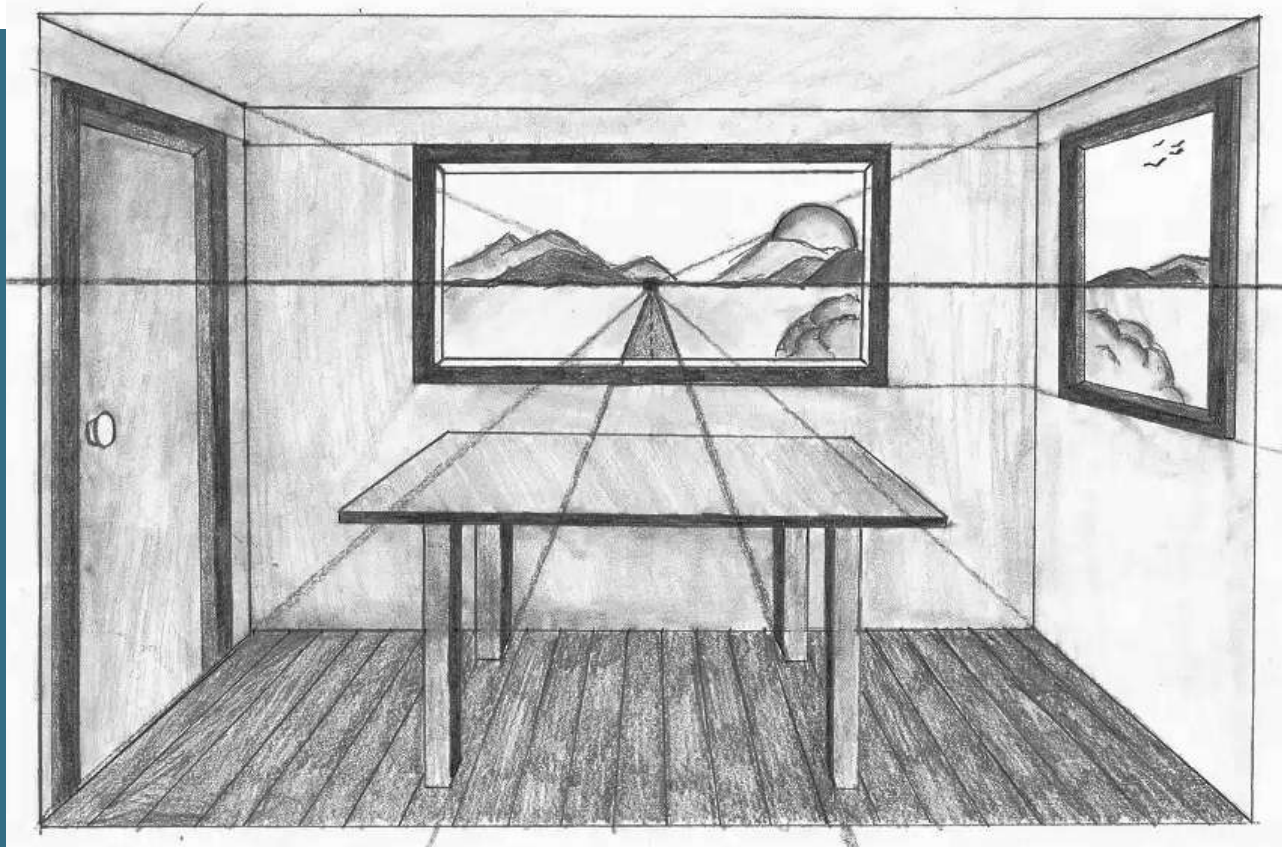


2pt

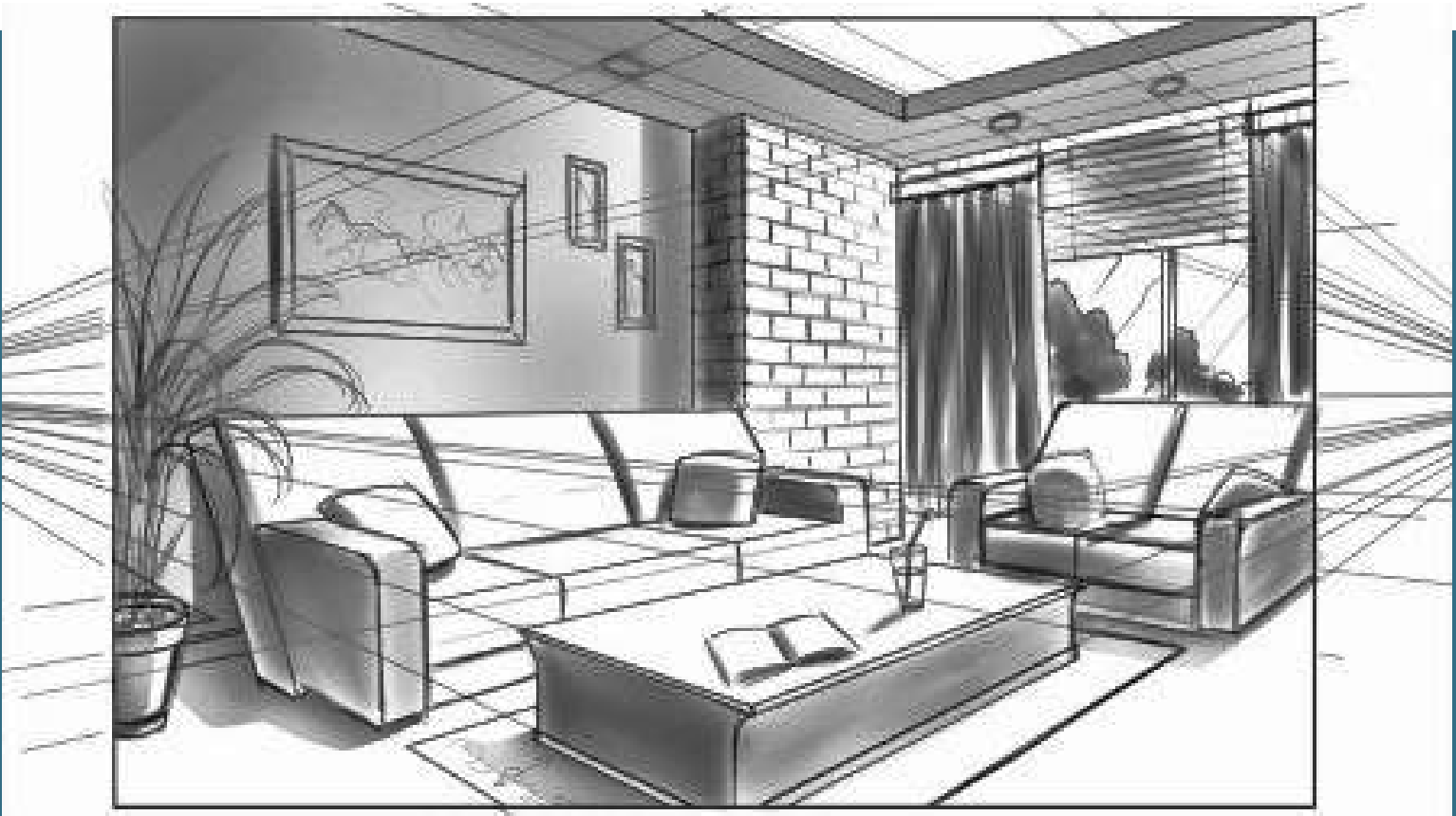


3pt

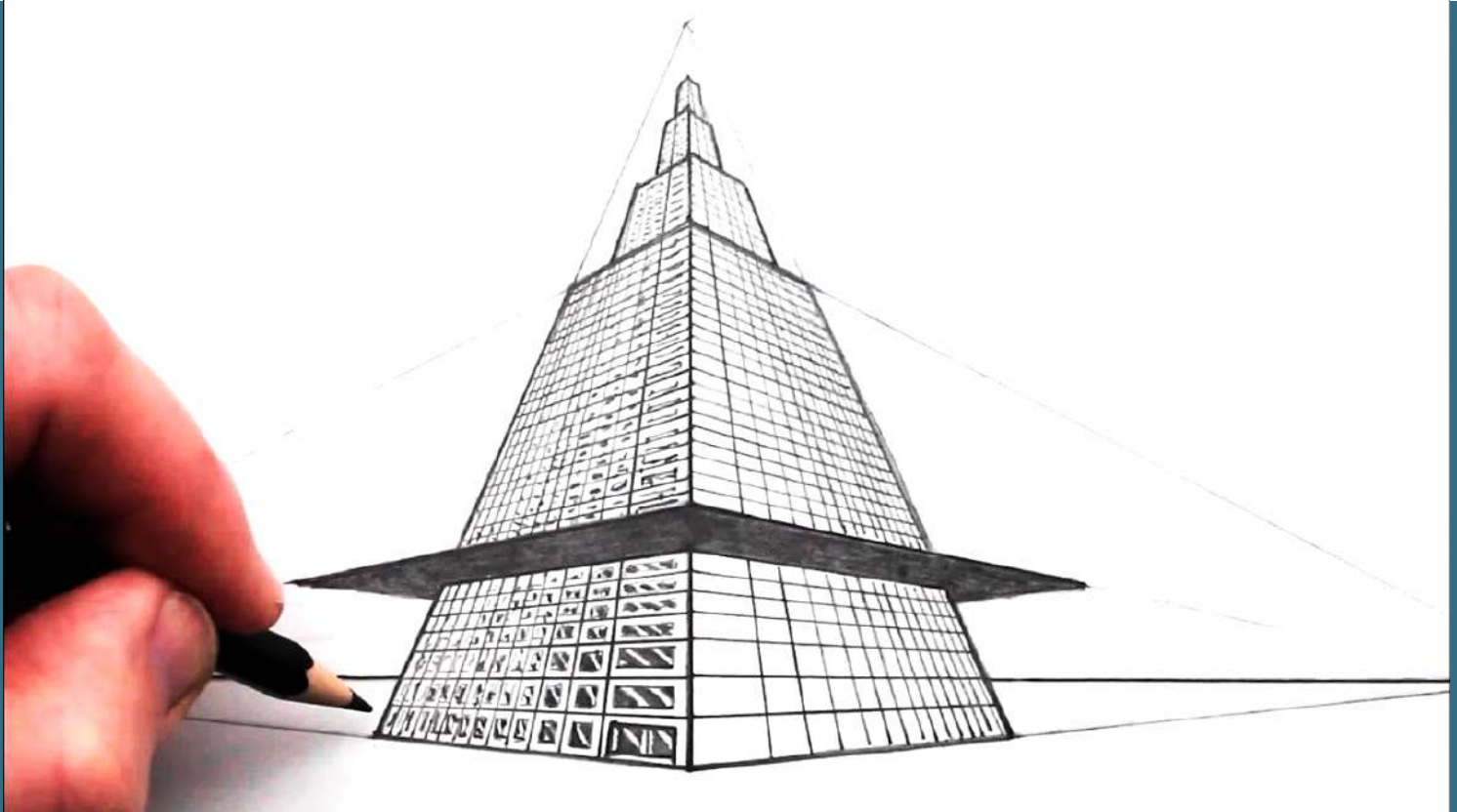
One-point perspective contains only one vanishing point on the horizon line. This type of perspective is typically used for images of roads, railway tracks, hallways, or buildings viewed so that the front is directly facing the viewer. ... These parallel lines converge at the vanishing point.



Two-point perspective occurs when you can see two vanishing points (VP) on horizon line from your point of view. Two-point perspective drawings are often used in architectural drawings and interior designs; they can be used for drawings of both interiors and exteriors.



Three-point perspective is a linear perspective in which parallel lines along the width of an object meet at **two separate vanishing points (VP) on the horizon line** and a **3rd VP on a vertical line** where the object(s) meet at a vanishing point on the perpendicular bisector of the horizon line



PERSPECTIVE VOCABULARY

1. **Perspective:** the art of seeing an object as to **shows depth or distance**
1. **Background:** the **distant part** of a landscape: the surroundings **behind something**
1. **Foreground:** the part of the **scene nearest to the viewer**
1. **Midground** **half-way between** foreground and background
1. **Overlapping:** **in front of one another;** implying distance

...continued perspective vocabulary

6. Horizon Line: a straight level line where earth/water and sky seem to meet

7. Orthogonal Line: The term used to describe parallel lines which appear to converge in the system of linear perspective

8. Linear Perspective: the observation that the appearance of size diminishes with distance i.e railroad track

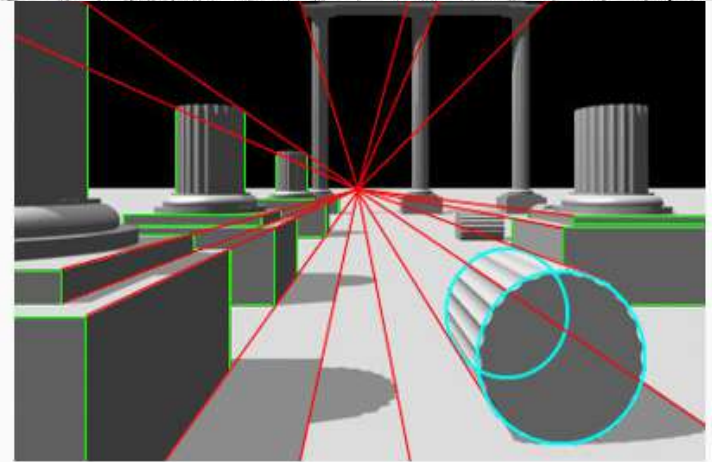
9. Atmospheric Perspective: expresses deep space, far distance, and tends to obscure vision i.e mountains in a distance appear foggy/obscured (seen in outdoor/exterior perspective)

RELATED PERSPECTIVE VOCABULARY

1. Proportions: the comparison or size between things; the relationship to the whole i.e a hand holding an apple; how big is the apple compared to the hand?
1. Horizontal Lines: Straight lines parallel to the horizon.
1. Vertical Lines: Lines that are straight up and down that are drawn at right angles to the horizon
1. Diagonal Line: A straight line from a corner to the opposite (diagonal) corner of a cube, rectangle, parallelogram, etc.

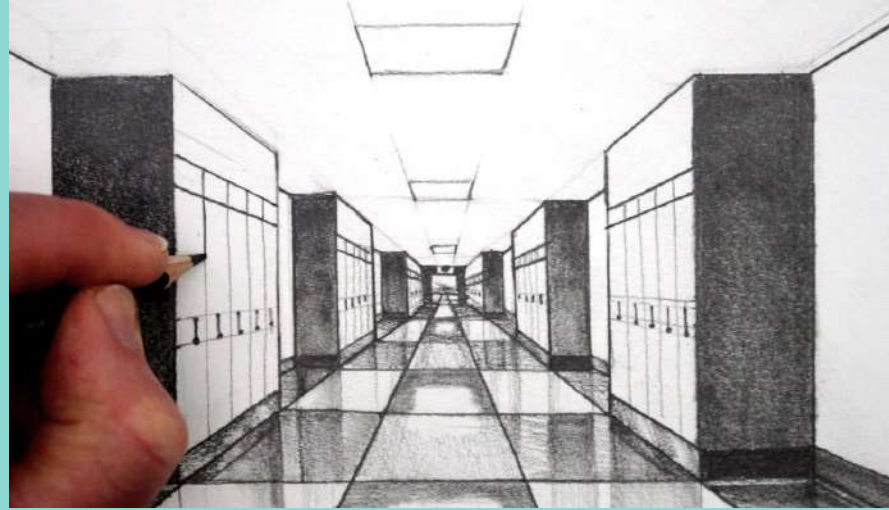
Perspective

the art of drawing
an object as to
show depth or
distance



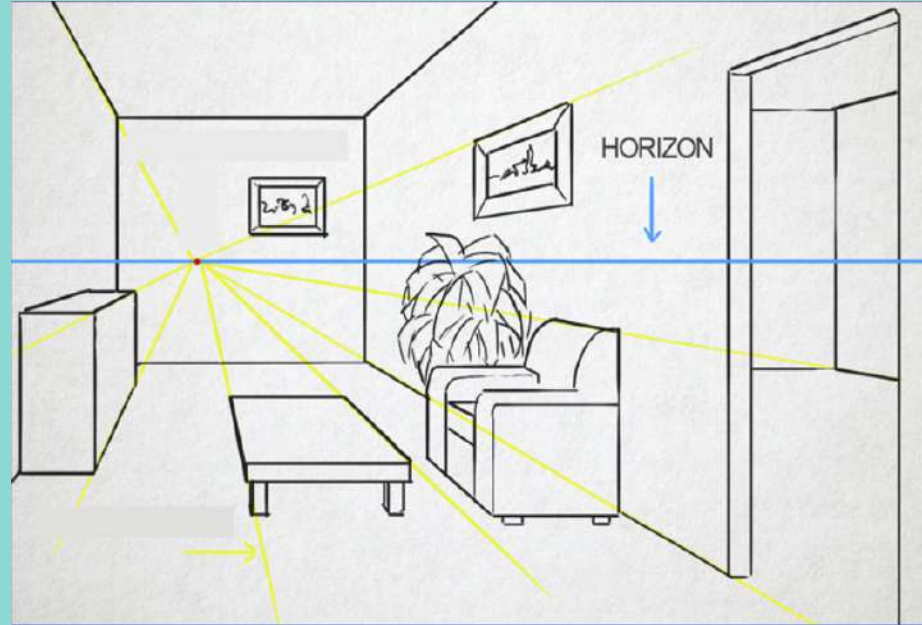
Linear Perspective

the observation
that the
appearance of size
diminishes with
distance



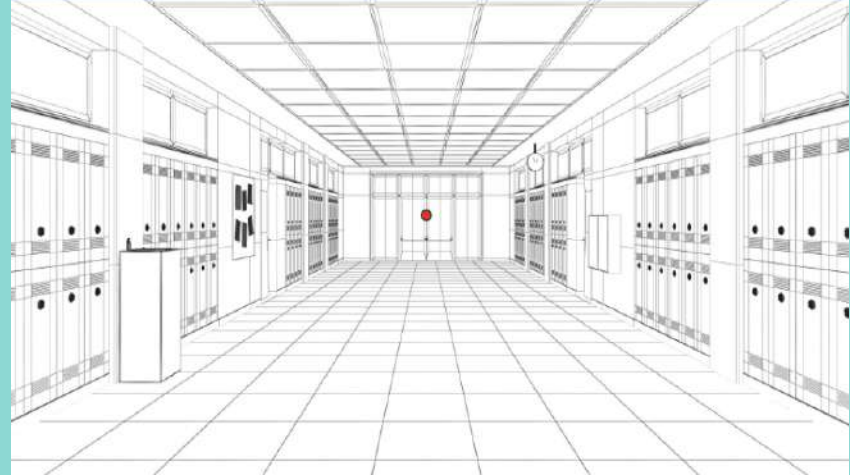
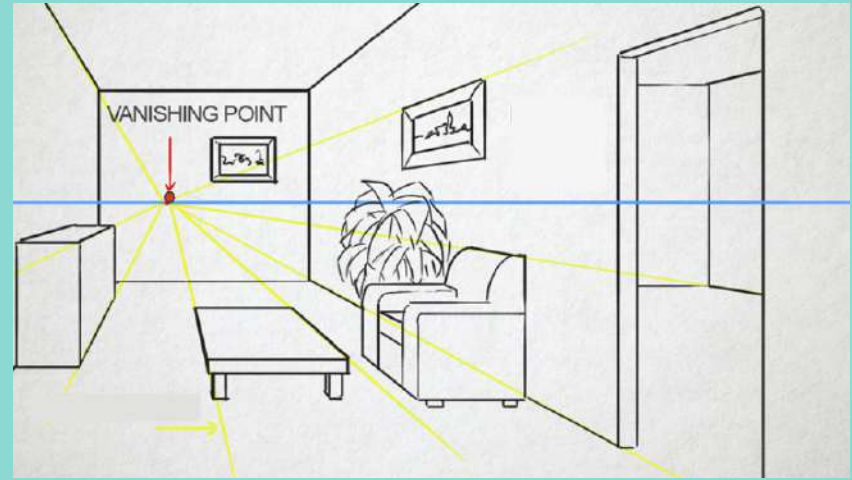
Horizon Line

a straight level line where earth/water and sky seem to meet



Vanishing Point

VP is the point to which all lines recede, located on the horizon line

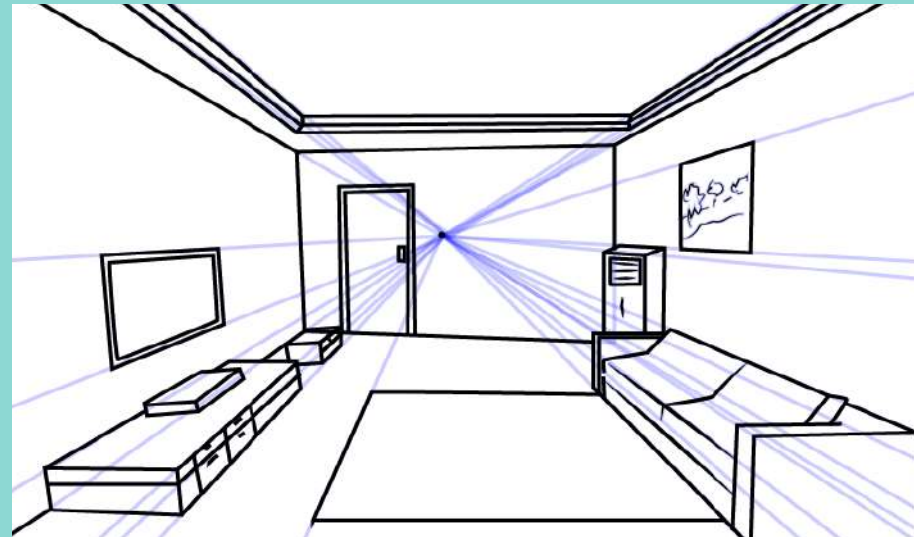
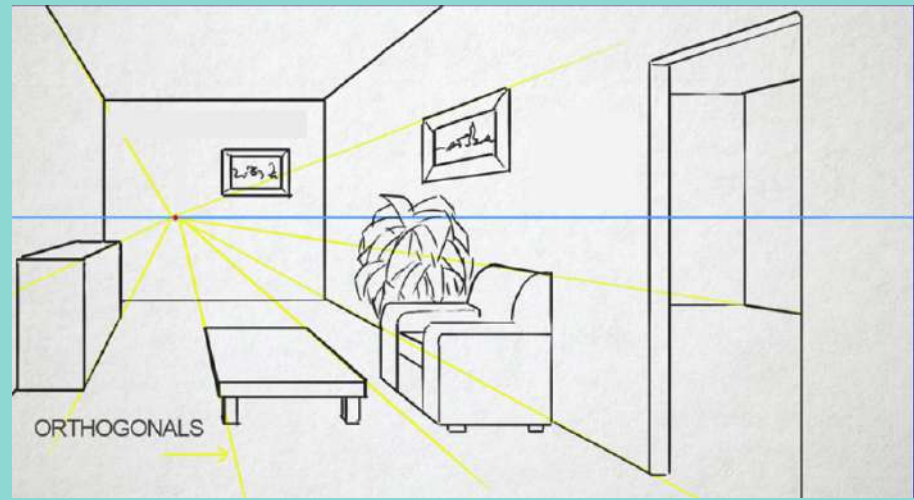


Orthogonal Lines

Also can be called construction lines.

They are lines that will be erased once you have drawn an object

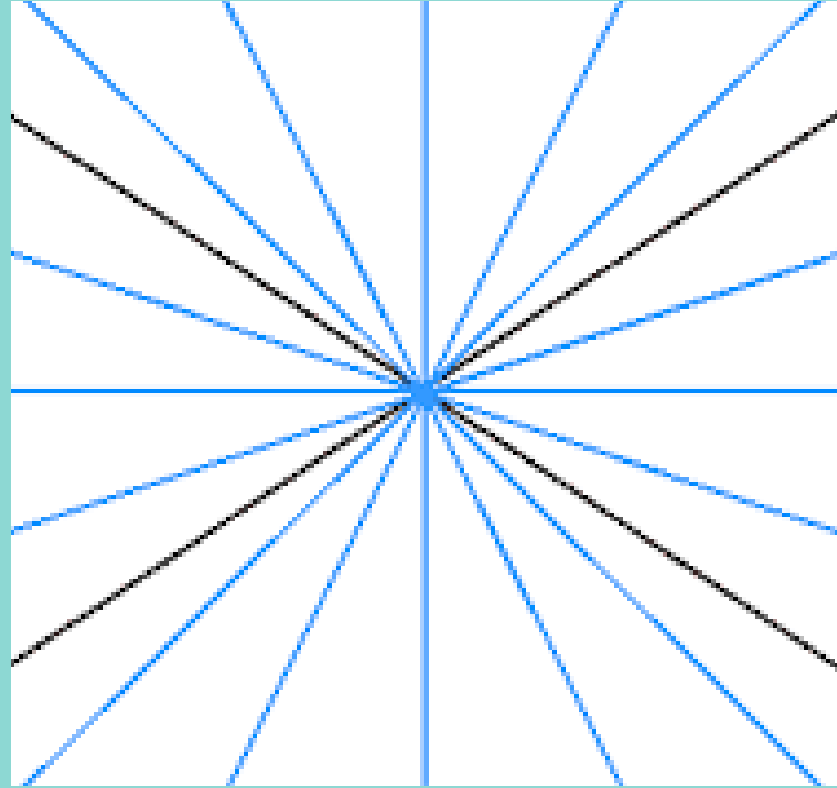
**Tip/Hint draw orthogonal lines very very lightly!*

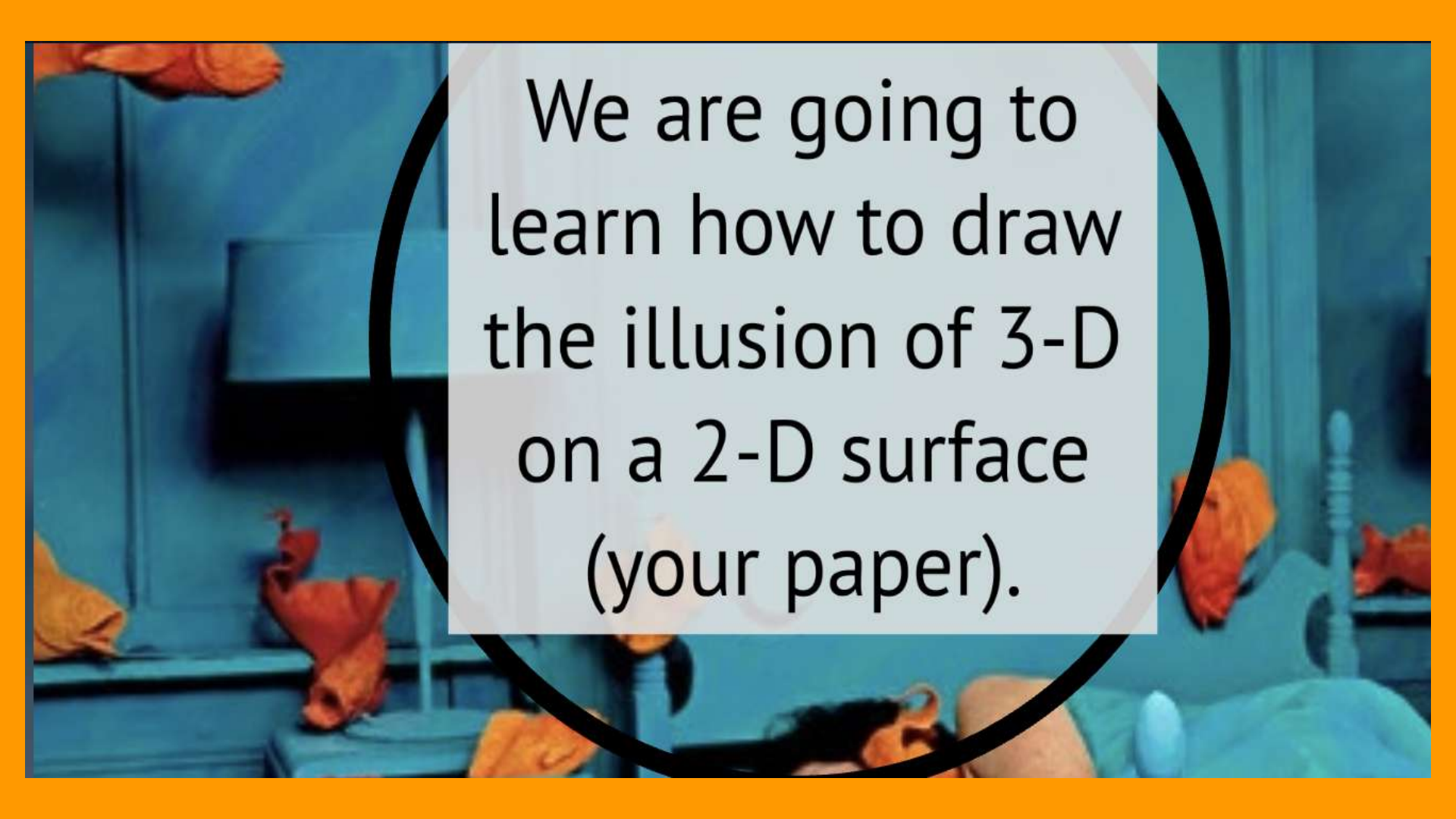


...continued Orthogonal Line

In a linear perspective drawing, orthogonal lines are the diagonal lines that can be drawn along receding parallel lines (or rows of objects) to the vanishing point.

These imaginary lines help the artist maintain perspective in their drawings and paintings to ensure a realistic view of the object.



A still life painting of a room with a lamp, a chair, and a bed, overlaid with a large black circle and a white text box. The painting is in a soft, painterly style with a muted color palette. The text box is white with a black border and contains the following text:

We are going to
learn how to draw
the illusion of 3-D
on a 2-D surface
(your paper).



2D

Two dimensions: length and width

3D

Three dimensions: length, width,
and height/depth = volume

One-Point Perspective

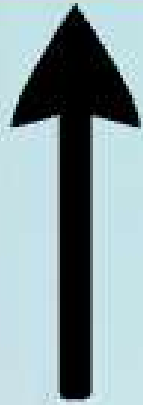


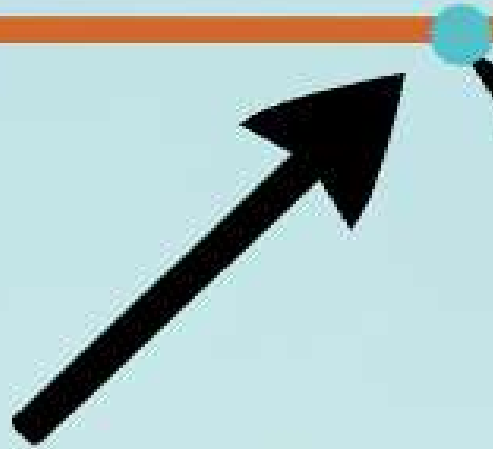
The simplest method of perspective drawing which uses:

- Vanishing Point (VP)
 - Horizon Line
 - Orthogonal Lines (OL)
 - Squared Horizontal Lines
 - Squared Vertical Lines
- 

Vanishing Point

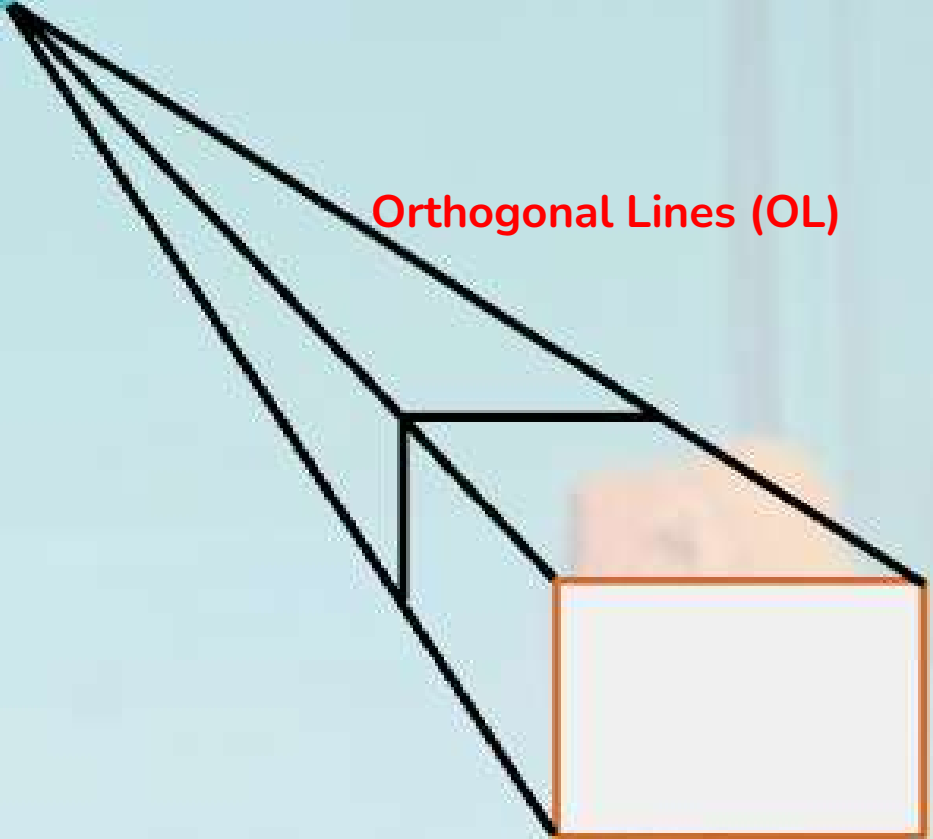
Horizon Line

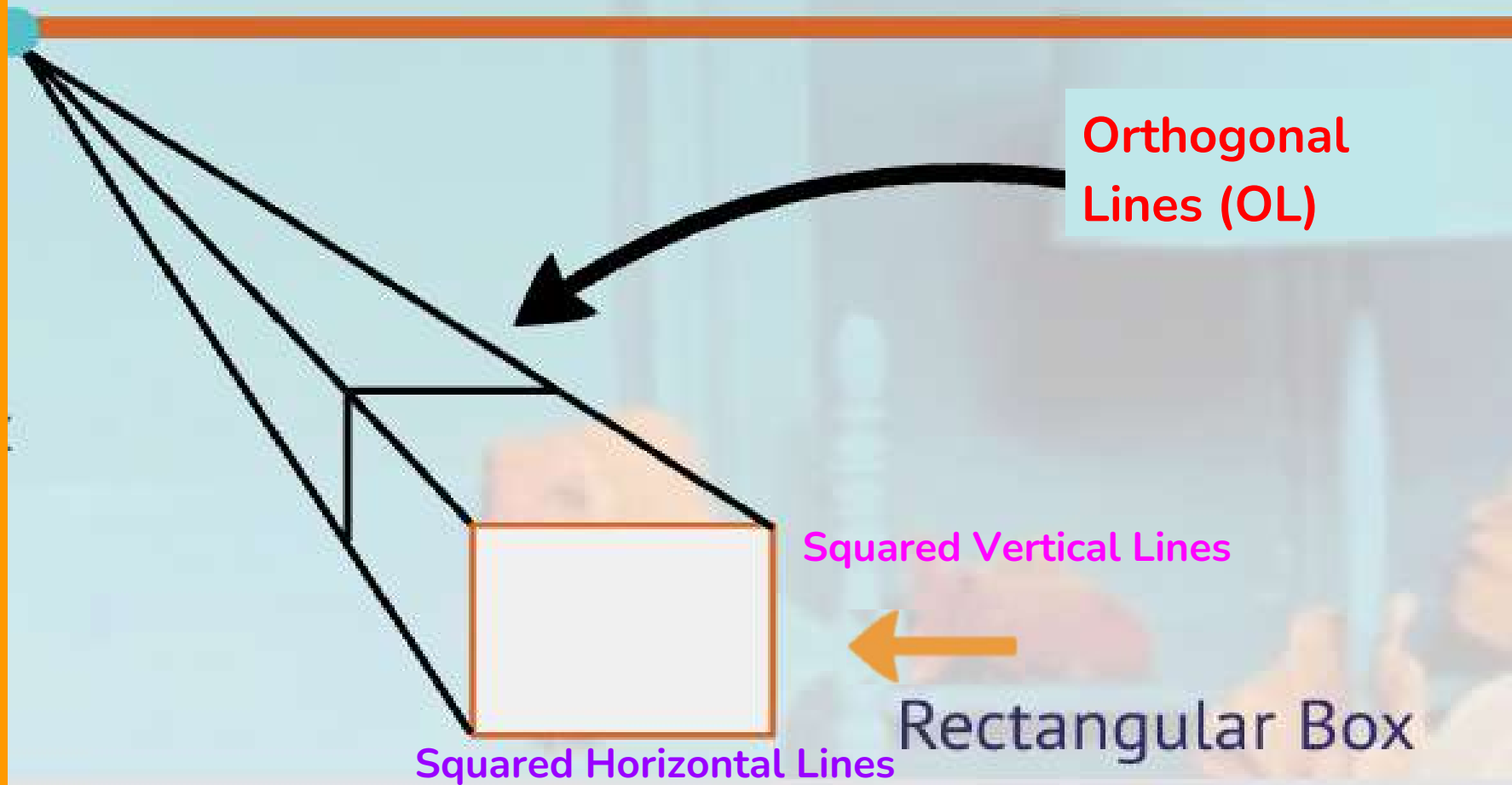




Vanishing Point

Orthogonal Lines (OL)





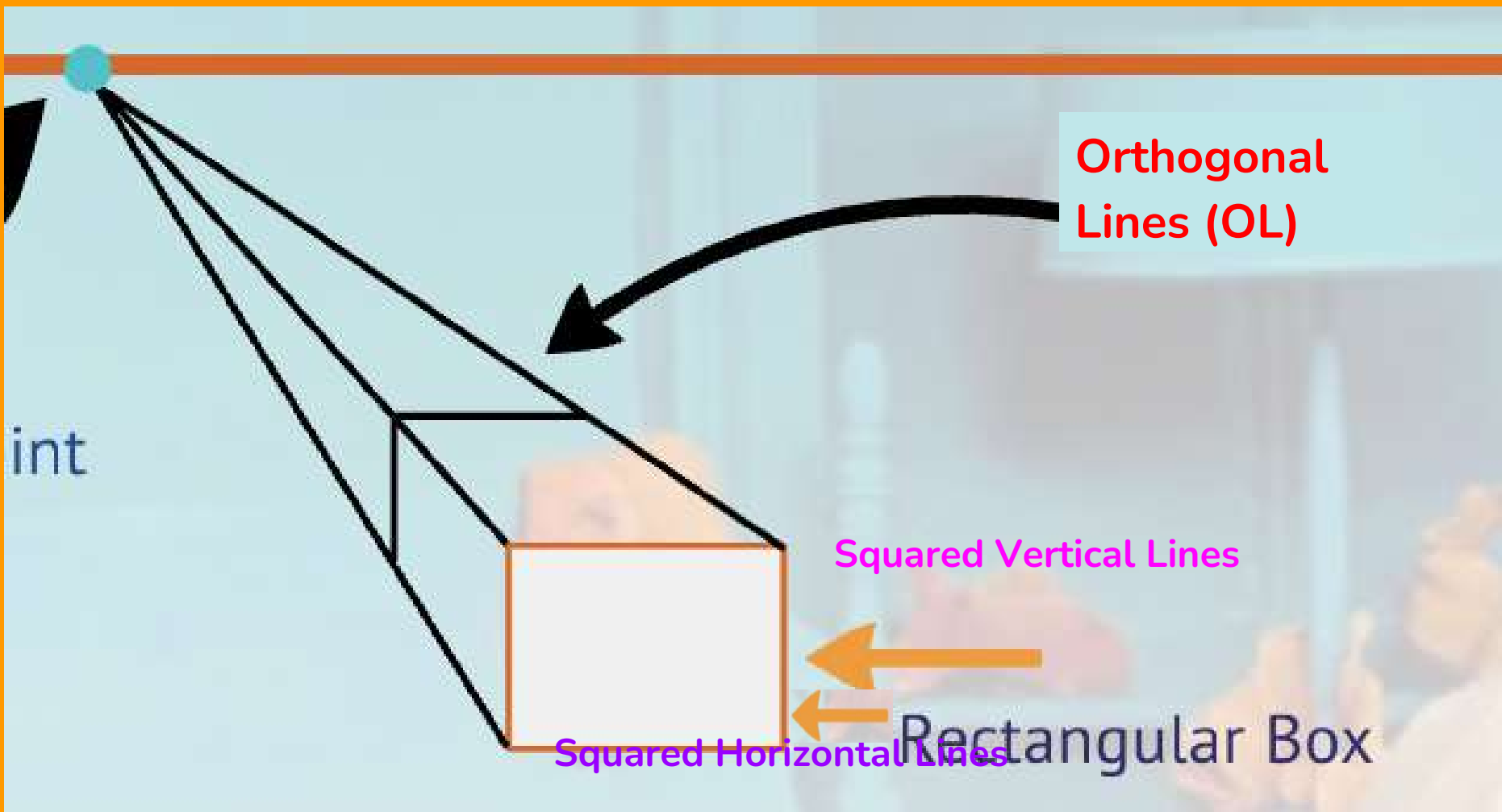
Orthogonal
Lines (OL)

Squared Vertical Lines

Squared Horizontal Lines

Rectangular Box

int





Recap Questions

1. In your own words define one point perspective?

1. Why is one point perspective important?

1. What are the three key parts of one point perspective?



What element of art
is two dimensional?

What element of art
is three dimensional?



circle



square



triangle



rectangle



oval

Basic Shapes



Basic Forms

Shapes



Circle



Square



Triangle

Forms



Sphere



Cube



Pyramid



Cone



Cylinder

Elements of Art

LINE

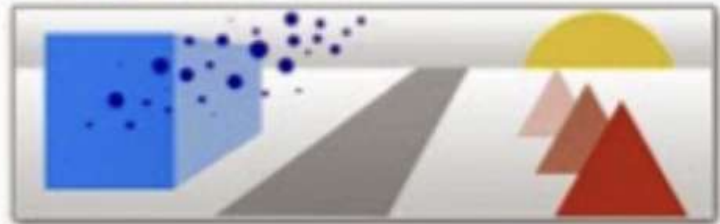
Line is the path of a point moving through space



SPACE / PERSPECTIVE

Space refers to the area in which art is organized.

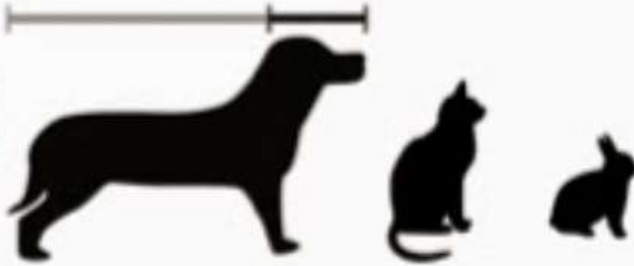
Perspective is representing a volume of space or a 3-dimensional object on a flat surface.



Principles of Art & Design

PROPORTION / SCALE

Proportion is the size relationship of parts to a whole and to one another. Scale refers to relating size to a constant, such as a human body.



RHYTHM / MOVEMENT

Rhythm or movement refers to the suggestion of motion through the use of various elements.



Statement of Inquiry

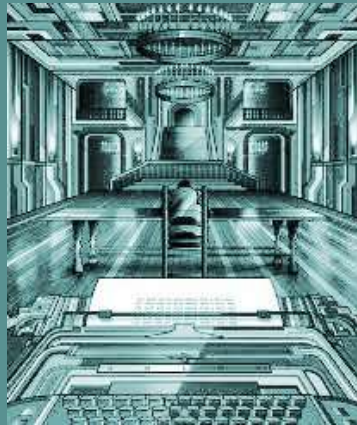
Living spaces can be designed to tell the story of individuals' personal and cultural expression.

One Point Perspective

Interior Dream Room/Space

Incorporating

- *Innovation*
- *Culture*
- *Dream Design*



Culture

- What is culture?
- What does culture look like in your life?



Community

- What is community?
- What does community look like in your life?



Innovative

“Unique”

introducing new ideas; original and creative in thinking.

- What does this mean for the project?
- What does this look like?

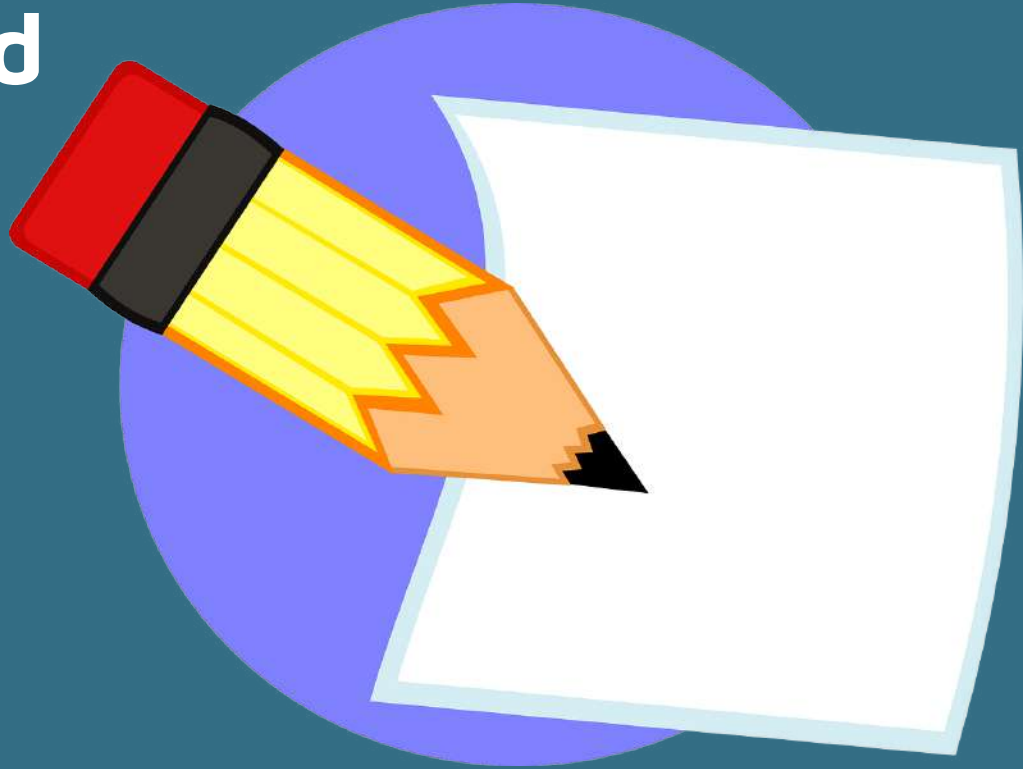


Revise or Expand

What does this word
revise mean?

What does the word
expand mean?

Why is it important to
make revisions?



Our Project

Now that we've thought about many different aspects of housing and interiors, we are going to start thinking about our project.

YOU are going to design a **creative** interior space. Your space will reflect your **culture** and **identity**. It should be designed for a specific **location/environment**. You will use **perspective**: Focal point, scale, detail. It will have a **light source**.

You will draw at least four **household objects** that add to your **personal story**. You will draw one **innovative object** and **three pieces of furniture**.

Practice drawing furniture

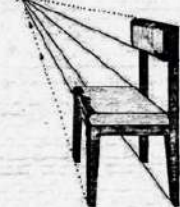
How to draw furniture, using one point perspective

V.P.



1. Draw the side view of a chair and mark with an X the single vanishing point. Note the position of the vanishing point. You may need to experiment a little with the position of the vanishing until you find what you consider to be the right place.

V.P.



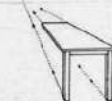
2. Draw faint lines from each corner/edge of the chair projecting them back to the vanishing point. Add the width to the chair and shade/colour.

How to draw furniture, using one point perspective



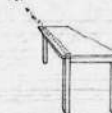
1. Draw a side or front view of the table.

V.P.



2. Mark a vanishing point on the paper and start projecting faint lines from each of the corners/edges of the front/side view of the table.

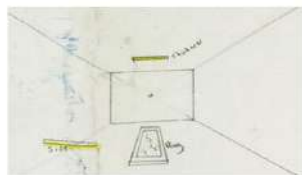
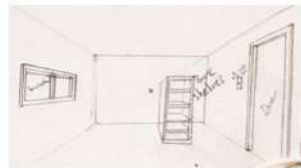
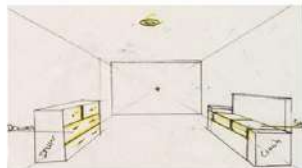
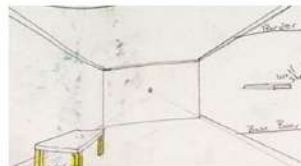
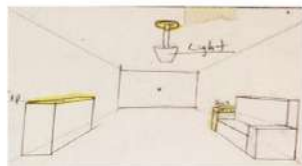
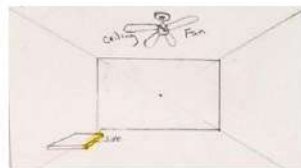
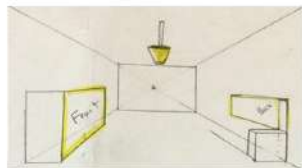
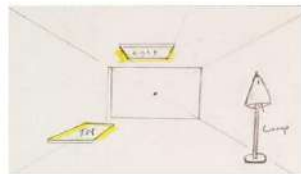
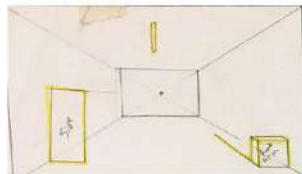
V.P.



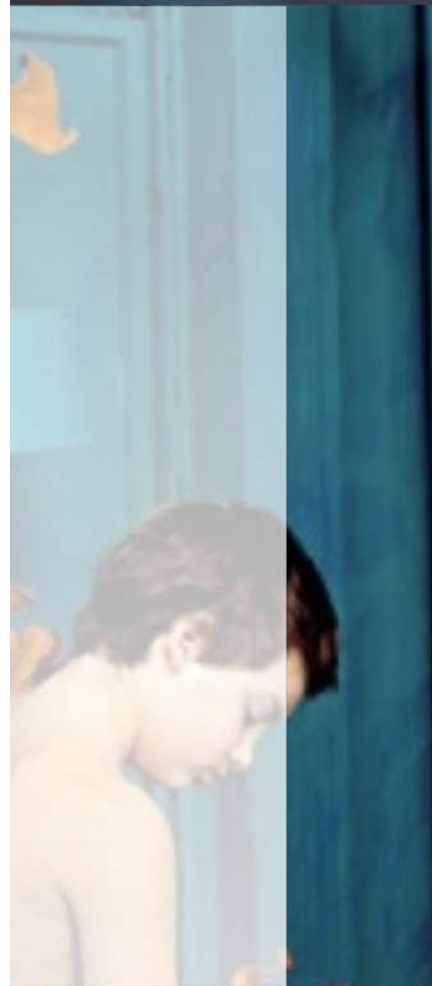
3. The most difficult part is ensuring that the back legs line up with the front legs. One way of ensuring that this happens is to project faint lines as shown on the drawing opposite.



4. When you have completed the drawing add some shade. On this example a grey felt pen has been used for most of the background colour, a black pen for the darker edges and for the grain of the wood.



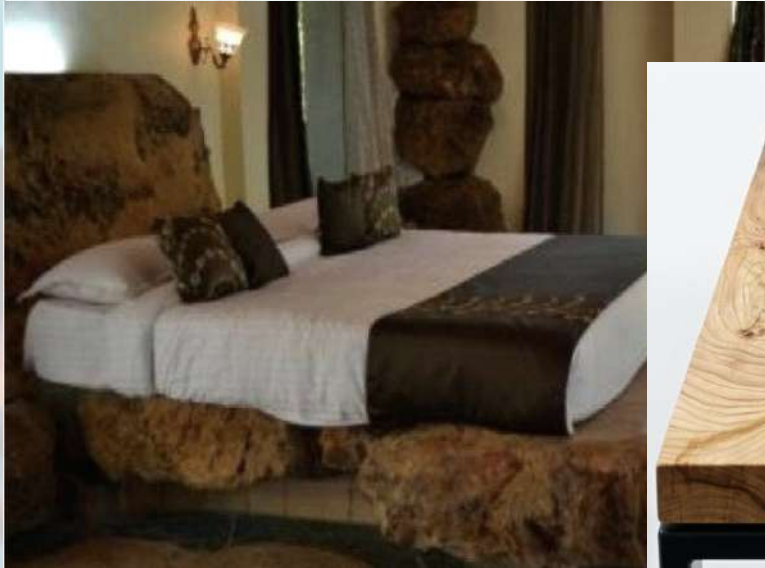
By Jody DuBois



Think about COLOR!



Make it UNIQUE!



Project Requirements

Student Examples



One-Point Perspective Room Criteria:

1. **Specific Location/Environment**
1. **Perspective is accurate and correct throughout the drawing: Focal Point, Scale, Detail, Light Source**
1. **1 window**
1. **1 door**
1. **1 innovative/unique/creative**
1. **3 cultural, community, or identity items**
1. **4 household objects besides furniture**
1. **3 added textures/patterns (Principles of Art)**
1. **5 pieces of furniture.**
1. **5 added details**
1. **Furniture is in proportion to the room and the other objects in the room.**
1. **Furniture has appropriate details, such as rounded-off couch cushions and edges of tables or shelves.**
1. **Space (Element of Art) is used well; there are not any big empty spaces where nothing is happening.**

A blurred background image showing a group of students in a classroom setting. Some students are visible in the foreground, while others are in the background, creating a sense of a busy learning environment.

Now, get peer feedback...
What is the best sketch?

Sketch your best idea.

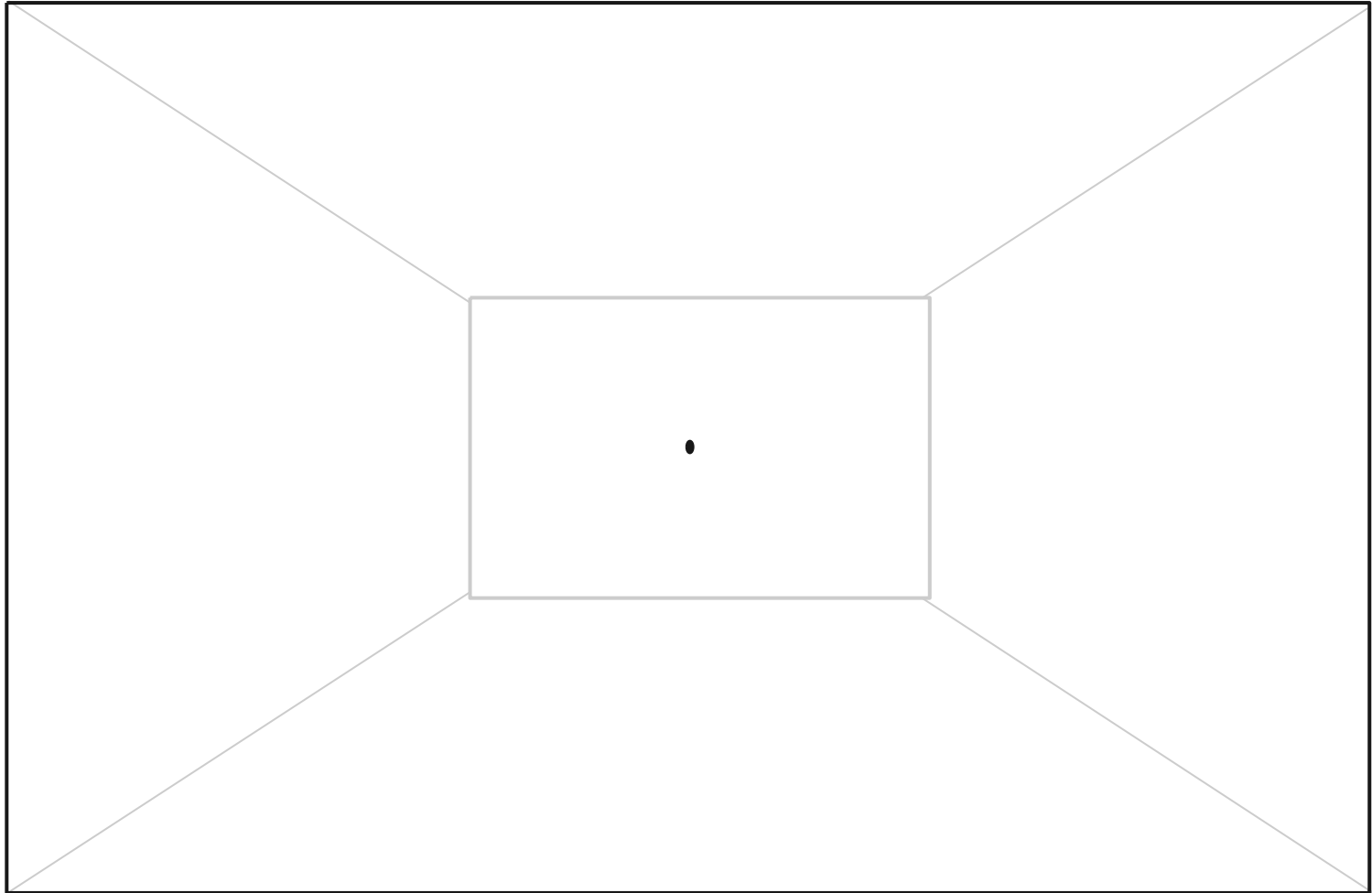
Get the design **approved** by the teacher.

When you get your final paper:

Sketch **LIGHTLY** first!

Make sure you have all the requirements.

Room Practice



Name: Example #2

Image # 2 Furniture

Descriptions of your reference picture:

Talk about

1. What do you like about the image?

The shape

2. What part will you use?

Whole couch and a dog

3. How will you make it your own, original

Add different pillows, change arm shape

Example Slide: Furniture



One Point Perspective Dream Room Design Basic Criteria

1 Window (W)

1 Door (D)

1 Innovative Item (I)

3 Cultural Items (C)

4 Household Items (H)

3 Textures/Patterns (T)

5 Pieces of Furniture (F)

5 Added Details (D)

5 Colors/Values

*All Accurately Drawn to Perspective



Interior Room Examples

Your Personal Story

- **Cultural**
- **Identity**
- **Community**





BRITISH

Interior Room Example 2

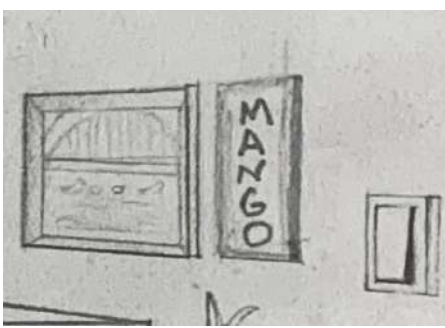




CHINESE

Interior
Room
Example 3





FILIPINO

Interior
Room
Example 4





Favorites

Interior Room Example 3

