technical drawing

school of art, design and architecture

sarah adeel | nust – spring 2011
the ability to 'document imagination'.
What is perspective drawing?

Perspective originally comes from Latin word *per* meaning “through” and *specere* which means “to look.” These are combined to mean “to look through” or “to look at.”
What is perspective drawing?

The “art definition” of perspective specifically describes creating the appearance of distance into our art.

With time, the most typical “art definition” of perspective has evolved into “the technique of representing a three-dimensional image on a two-dimensional surface.”
What is perspective drawing?

Perspective is about establishing “an eye” in art through which the audience sees.

By introducing a sense of depth, space and an extension of reality into art is created, enhancing audience’s participation with it. When things appear more real, they become real to the senses.
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What are the ingredients of perspective drawing?

Any form consists of only three basic things:

- it has size or amount
- it covers distance
- it extends in different directions
Photography is an example of perspectives.

In photos scenes are captured having depth, height and distance.
What is linear perspective drawing?

Linear Perspective:
Based on the way the human eye sees the world.

- Objects that are closer appear larger, more distant objects appear smaller.
What is linear perspective drawing?

- To create the illusion of space the artists creates a vanishing point (where all lines seem to converge) on the horizon line.
What is linear perspective drawing?

- Objects are drawn using orthogonal lines, which lead to the vanishing points.
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Definitions in perspective drawing

Station point (SP)

A fixed point in space representing the eye of the viewer.
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Definitions in perspective drawing

Picture plane (PP)

An imaginary transparent plane on which image is projected.
Centre of vision (CVR)

It is the line of sight determining the direction in which observer is looking.

It is always perpendicular to picture plane.
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Definitions in perspective drawing

Line of sight

They are the projectors extending from the SP to various points on picture plane.

Cone of sight

A ray of vision radiating outward from the eye of the viewer in a more or less conical shape along the central visual axis.
Horizon line (HL)

A horizontal line representing the intersection of picture plane (PP) and horizontal plane through the eye of the viewer.
Vanishing point

A point or points on the horizon line where all the orthogonal lines seem to converge.

Right vanishing point (RVP)
Left vanishing point (LVP)
Definitions in perspective drawing

Ground line (GL) and ground plane

Ground plane is the plane where the object is stationed.

Ground line is a horizontal line representing the intersection of ground plane and the picture plane.
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positioning in perspective drawing
For example...

- **Plan**: 2' x 2'
- **Elevation**: 1'
• Set the plan on PP.
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Drawing perspective

- decide SP and draw CVR
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Drawing perspective

• draw lines of sight
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Drawing perspective

- project lines of sight on to the GL. (the point where sight lines intersect PP)
  - Determine HL
• the point where the plan intersects the PP, draw the measuring line.
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Drawing perspective

• take vanishing points on the HL by deciding the cone of vision
• measure height along the measuring line, according to the elevation.
• join the orthogonal lines to the rvp and lvp.
• These lines become the sides of the cube.
• the points from the lines of sight give the other two sides of the cube.
• darken the required lines.
The position of vanishing points determine the view of the perspective.

- bird’s eye view
- eye level
- worm’s eye view
• bird’s eye view.
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**Drawing perspective**

- if HL is GL or close, perspective at human eye level is obtained.

- darken the required lines.
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Drawing perspective

- perspective at eye level
If vanishing points are below GL then perspective obtained is from worm’s eye level.

- Darken the required lines.
• perspective at worm’s eye level.
If the object is not directly on the picture plane then the measuring line is taken at the point where the object intersects the picture lane.
• When the object is away from the picture plane.
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Drawing perspective

- When the object is across the picture plane.
DRAWING
a mean to design reasoning
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assignment

Draw perspective of your house
technical drawing - perspective
For example....
technical drawing - perspective
For example...
technical drawing - perspective

For example...
technical drawing - perspective
For example...
ALL ANIMALS ARE EQUAL
BUT SOME ANIMALS ARE MORE EQUAL THAN OTHERS
ORWELL

Oh no graffiti, again?
I Don’t Listen to People Who Haven’t Done It

-David Lewis Kyle+
I like who we are when we are around us
Place your hand here.

Remove hands when no longer strangers.

Have stranger place hand here.
I'm like a swan
when nothing goes right...

go left.
WHEN THE POWER OF LOVE OVERCOMES THE LOVE OF POWER, THE WORLD WILL KNOW PEACE.

Jimmy Hendrix
LET GO OF WHAT YOU THINK YOU KNOW
this is your world.
shape it or someone else will.

-gary lew
“When you realize how perfect everything is, you will tilt your head back and laugh at the sky.”

Buddha
TAKE
AT LEAST
ONE

A CHANCE
A CHANCE
A CHANCE
A CHANCE
A CHANCE
A CHANCE
HISTORY OF ART

DA VINCI
REMBRANDT
MONET

VAN GOGH
PICASSO
DALI

ROTHKO
POLLOCK
WARHOL
REAL EYES
REALIZE
REAL LIES.
YOU CAN’T GET RID OF YOUR FEARS...
BUT YOU CAN LEARN TO LIVE WITH THEM

more tea?
Knowing what you like doesn’t mean you should only like what you know.
WANT

TOO MANY THINGS

NEED

TO WANT LESS
Some cause happiness wherever they go; others, whenever they go.

Oscar Wilde
REMEMBER HAPPINESS IS A WAY OF TRAVEL NOT A DESTINATION

-Roy Goodman
FRAGILE
HANDLE THIS SUBLIMINAL MESSAGE WITH CARE

consumption is killin you
I WANT TO LIVE UNTIL I DIE
let me know your thoughts
please thank you!
for every situation, there's a suitable line from a song.
LIVE
LAUGH
LEAP
LOVE
LEARN
LISTEN
optimism
Your past is just a story. And once you realize this it has no power over you.

-Chuck Palahniuk
2000
NOBODY READS MY EMAILS.

2005
NOBODY READS MY BLOG

2010
NOBODY READS MY TWITTER

2015
NOBODY READS MY Face © YouTWEETS

2020
NOBODY READS
Welcome to our OOL

Notice there's no 'P' in it...

LET'S KEEP IT THIS WAY!
WANT facebook
NEED face a book

I SHOULD HAVE BRAIN FOOD INSTEAD OF READ BRAINLESS FEEDS
Silence is a war CRIME
"STRESSED" is "DESSERTS" spelled backwards
Why I preferr Dogs over cats

This man is caring for me, feeding me, and sheltering me. **HE** must be GOD!

**LOYAL**

This man is caring for me, feeding me, and sheltering me. **I** must be GOD!

**MANIPULATIVE**
THE MEDIA OWNS US!
Bas mein na reh jaon?

OFF-ROADERS ARE ESSENTIAL FOR TODAY'S CITY STREETS
There will always be a “lie” in believe, an “over” in lover, an “end” in friends, an “us” in trust and an “if” in life
Truth or Consequences

Elephant Butte Lake State Park
FALLING IN LOVE SHOULD BE LIKE POLAROIDS.
You are where I can be myself.
33. DISCOVER THE PERSON YOU ARE BEFORE YOU FIND THE PERSON YOU NEED TO BE.
She's a Keeper.
Will you catch me when I fall?
Before I die...

Before I die I want to **HAVE FUN!**

Before I die I want to **FINISH SCHOOL**

Before I die I want to **GO 250 mph**

Before I die I want to **TREEDOR TRACY**

Before I die I want to **GO TO ROME**

Before I die I want to **SEE ALL MY GRANDKIDS**

Before I die I want to **SEE THE MOON**

Before I die I want to **SEE THE SUN**

Before I die I want to **SEE THE STARS**