3D Drawing... Optical illusion {anamorphic}

Objective: Study some ‘3D drawings’, try to figure out what makes them work. Then try at least three different ways of creating a “3D drawing”.

Terminology: Optical illusion, anamorphic, Trompe L’oeil, forced perspective, hyper realistic,

Trompe L’oeil is often confused with anamorphic art because Trompe L’oeil literally means “to deceive the eye”. The deception is in the reality it portrays. A typical Trompe L’oeil painting is a still life which often depicts a notice board with letters and other objects stuck on it. When the painting is hung on a wall it looks like a real notice board. The deception is to trick you into thinking that it is real. Some anamorphic art adds deception by concealing the anamorphic image in an otherwise normal looking picture. This has nothing to do with Trompe L’oeil. There is no distortion in Trompe L’oeil, only illusion of reality.

Examples of what it might look like:

Optical illusion with lined paper {drawing interacts with lines of paper}

Examples: [link to examples]

What can we learn from the examples above?

1. Cat – notice shading, overlap with lines; a foot on line makes the lines appear solid.
2. Stick figures - appears to move and stretch the lines of paper so you will need to draw the lined paper, motion lines,
3. Lined paper as bars.
4. Notice use of: Cross contour lines in blue, graphite for shading, where they use black felt tip.

Impossible object

Kanizsa triangle - a white equilateral triangle is perceived, but in fact none is drawn. [link to Kanizsa triangle]

Draw the impossible triangle [link to How to draw an impossible triangle]

How many legs does this elephant have? [link to M.C. Escher 1898-1972]
Below the Surface {Optical illusion that appears to dig/sink/ go below the paper surface}


20-year-old student of architecture department of Syria Muhammad Ejleh {notice angle of photo for best illusion}

stairs: https://www.youtube.com/watch?v=zgPepQkJZWA

M.C. Escher

Levitating Illusion

http://pixgood.com/illusion-drawing-on-paper.html

What can we learn from these examples? {discussion}

Snake drawing:

- First you need to draw a very realistic subject with consistent light source.
- Notice how shadow is close to the body and becomes further away from the head, implying levitation.
- Hint: paper is cut after it is drawn. Notice it is cut at an angle – think about this: what do you know about perspective drawing?
- Do you think leaving part of the drawing incomplete and taking a photo with real objects (hand, drawing tools) adds the illusion?

Compare the next two drawings – do they apply some of the same techniques?

Alessandro Diddi well known 3D artist [1970 art grad]

http://www.beautifullife.info/graphic-design/anamorphic-3d-illusion-drawings-by-alessandro-diddi/
**Forced perspective** {exaggerated foreshortened subject interacting with artist}

http://www.moillusions.com/creative-drawings-illusion-collection/  perspective drawings with exaggerated foreshortening;
#3 http://webneel.com/3d-drawings-pencil-art

**Surreal or Not?** {partially realistic, partially in process of drawing}

http://www.pinterest.com/pin/575686764841973259/

“Drawing Hands”  
Artist: M.C. Escher,  
Completion Date: 1948

How to draw a drop of water - https://rooseveltdrawing1.wordpress.com/projects/realism-challenge-water-drop/

**Objective:** Create at least three ‘3D Drawings’  
... try at least three different ways of creating “3D drawing”; must include one advanced.

**Beginners:**  
- Optical illusions: interacting with lines of paper  
- Impossible Object  
- Below the Surface Illusion  

**Advanced:**  
- Levitating Illusion  
- Forced perspective / exaggerated foreshortening  
- Surreal or Not? {partially realistic, partially in process of drawing}  
- Drawing water

**Tutorial resources:**  
- anamorphic pyramid drawing tutorial, https://www.youtube.com/watch?v=nyzS3HcIeok  
- https://www.youtube.com/watch?v=8pTDgs2Hkg  