

# HOW TO DRAW WHAT YOU SEE

RUDY DE REYNA



Structure  
Form  
Perspective  
Light and Shade  
Composition  
Values  
Still Life  
Outdoors

Figure  
Hands and Feet  
Heads and Faces  
Children  
Charcoal  
Wash  
Opaque  
Acrylic  
Ink



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# **HOW TO DRAW WHAT YOU SEE**

BY RUDY DE REYNA

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# Contents

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*Cover*  
*Title Page*  
*Copyright*  
*Dedication*  
*Acknowledgments*

## **PART ONE: FUNDAMENTALS OF DRAWING**

### **Project 1. Basic Structure of Objects**

Drawing Straight Lines  
Drawing Lines Freehand  
Holding the Pencil  
Angle and Direction of Lines

### **Project 2. Eye Level: Foundation of Perspective**

Changing Shapes and Eye Level  
Vanishing Points  
Cube in Perspective  
Judging Size Relationships  
Objects Below Eye Level  
Practice Exercises

### **Project 3. Drawing Cubic Objects**

Cubic Forms in Everyday Things  
Searching with Lines  
Handling Detail  
Refining with Tracing Paper

### **Project 4. Drawing Cylindrical Objects**

Drawing Curved Lines  
Observing Cylindrical Forms  
Rendering Cylindrical Objects  
Ellipses and Perspective

### **Project 5. Drawing Spherical Objects**

Departures from the Geometric Sphere  
Depth and the Sphere

## **Project 6. Drawing Conical Objects**

---

Symmetry of the Cone

Drawing Everything

## **Project 7. Putting Basic Forms Together**

Basic Forms and Their Relationships

Drawing Symmetrical Objects

Drawing and Observation

## **Project 8. The Horizon Plane**

Relating Objects

Contours

Creating a Composition

Selecting a Viewpoint

Perspective in a Still Life

Working with Actual Objects

A Brief Summary

## **Project 9. Light and Shade**

Observing Light and Shadow

Light and Dimension

Tonal Values

Using the Full Tonal Scale

Cast Shadows

Shadow Edges

Angle of Light

Level of Light

## **Project 10. Translating Local Color to Black and White**

Using a Middle Tone

Values and Tones

Tonal Arrangement

Rendering Texture

Tactile and Visual Textures

## **Project 11. Drawing a Still Life**

Copying versus Drawing from Life

Composition and Construction

Laying Down Correct Tones

## **Project 12. Drawing with Charcoal**

Vine and Compressed Charcoal

Powdered Charcoal

Erasers and Blenders

---

Papers

Toned Papers

Fixative

Charcoal's Versatility

Ease of Manipulation

### **Project 13. Still Life in Charcoal**

Four Drawing Principles

Hard and Soft Edges

Working from "Roughs"

Composing a Still Life

Practice versus Theory

### **Project 14. Drawing Outdoors**

Natural Light

Light at Different Times of Day

Observing the Effects of Light

Reflected Light

Searching for Basic Forms

Using a Viewfinder

Drawing on the Spot

### **Project 15. Drawing Outdoors with Charcoal**

Advantages and Disadvantages of Charcoal

Capturing the Moods of Nature

Rendering Specific Objects

Rough Charcoal Sketches

Finished Drawings in Charcoal

### **Project 16. Drawing the Figure**

Basic Body Proportions

Cylindrical Human Form

Some Body Measurements

Foreshortening

Drawing from Life

Working Over the Whole Figure

Light and Shadow on the Figure

### **Project 17. Drawing Hands and Feet**

Drawing Feet

Drawing Hands

Finding Your Niche



## **Project 18. Drawing Heads and Faces**

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A General Procedure

Angles and Planes of the Head

Facial Guidelines

Male and Female Features

Drawing the Head and Face from Life

Drawing the Nose

Drawing Ears

Drawing Eyes and Eyebrows

Drawing the Mouth

Life Drawing from Memory?

## **Project 19. Drawing Children**

Drawing the Infant's Head

Drawing the Teenager

Male and Female Characteristics in Children

Capturing a Child's Character

## **PART TWO:**

### **DRAWING IN VARIOUS MEDIA**

## **Project 20. Wash Techniques**

Pigment and Mixer

Surfaces

Brushes

Additional Equipment

Properties of Wash

Flat Wash

Wet-in-Wet Technique

Graded Wash

Drybrush

Linear Effects

## **Project 21. Drawing with Wash**

Working Drawings

Realism First

## **Project 22. A Still Life in Wash**

Arranging and Lighting

Using a Graded Wash

Eliminating Pencil Lines

Preparing Tone

## **Project 23. Outdoors with Wash**

---

Transporting Your Materials

Suiting Your Medium to Your Subject

## **Project 24. Opaque Techniques**

Characteristics of Opaque

Pigments

Brushes and Drawing Surfaces

Accessories

Drybrush Blending

Wet Blending

Working Toward Craftsmanship

## **Project 25. Still Lives in Opaque**

Establishing the Large Shapes

Balancing Textures

Using Transfer Paper

Paint Consistency

Support for the Hand

Controlling Opaque

Suitability of Opaque

## **Project 26. Outdoors with Opaque**

Opaque Watercolor and Nature

Materials to Take Along

Choosing a Subject

## **Project 27. Acrylic Techniques**

Brushes, Pigment, and Surfaces

Characteristics of Acrylic

Versatility of Acrylic

## **Project 28. Still Life in Acrylic**

Composition and Movement

Considering Picture Space

## **Project 29. Outdoors with Ink and Mixed Media**

Ink and Additional Equipment

Two Ink Techniques

Outdoors with Mixed Media

## **Project 30. Drawing Children in Various Media**

**A Parting Word**  
**Index**

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# Part One: Fundamentals of Drawing

I believe that you must learn to draw things *as you see them*—realistically. That is, you must reproduce the dimensions and proportions of a given subject. To render a faithful, realistic drawing, you must be able to *observe* the basic structure of an object, regardless of how complex and obscured by detail it may be. You must train not only your hands but your eyes as well.

However, the ability to depict an object literally doesn't make you an artist. No one ever claimed that the faithful duplication of nature (an impossible task anyway) produces art. But the ability to draw things as you see them is the first step toward becoming an artist.

In other words, throughout this book you'll learn to draw realistically. The objects before you will dictate what you should do, and the result will be the literal representation of the object. When you've finished the projects in this book, you'll be equipped with the necessary skills to enable you to express yourself as an artist. Having learned the fundamentals, the *craft* of drawing, you'll have a solid point of departure from which to *create*. Then, if you wish, you can leave the literal imitation of a subject to the students behind you.

# Basic Structure of Objects

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Every object that you see has a structure or form based on either the cube, the cylinder, the cone, or the sphere. Any object may be based on one or a combination of these four geometric solids. A solid, for our graphic purposes, means an object that has three dimensions: height, width, and depth.

*Basic structure* doesn't mean that things are geometrically perfect cubes, cylinders, cones, or spheres. (They can be, of course—for example, a square box, a round can, or an ice cream cone.) It means that objects are *based* on these four geometric solids. The shape of the object is modified in various ways that depart from the strict geometrical form (Figure A).

This principle was a revelation to me. I found that I could concentrate on overall dimensions of an object; then, at my leisure, I could add whatever details I wanted to include. In addition, because the four basic geometric forms are solid, i.e., three dimensional, you get a feeling for the bulk and the weight of everything you draw.

In the next three projects, we'll explore the first of these basic forms—the cube. We'll flatten it down, pull it up, or lengthen it, depending on our needs for representing an actual object (Figures B, C, D, and E). There are so many things that have the cube as their basic shape that it seems logical to begin with it. But before you can draw cubes, you must practice drawing the straight lines that form them.

## Drawing Straight Lines

All you need to do the exercises in this project is a standard “office” pencil and a pad of drawing paper. I've used a KOH-I-NOOR #555, grade #2 pencil, and a #307 Ad Art layout and visualizing pad made by the Bienfang Company.

The range of pencils and drawing papers is so wide that I won't even attempt to enumerate them. Actually, for your first explorations, almost any pencil and any type of paper will do. Later you'll be more discriminating.

## Drawing Lines Freehand

Since the first objects you're going to draw require primarily straight lines, let's look into ways of making them without any mechanical aids. I want you to draw them freehand; it's awkward and impractical to be encumbered with rulers and triangles as you sketch, especially outdoors. Besides, there's a certain life and vibrancy to a line drawn freehand when compared to the cold and mechanical line made with a ruler.

## Holding the Pencil

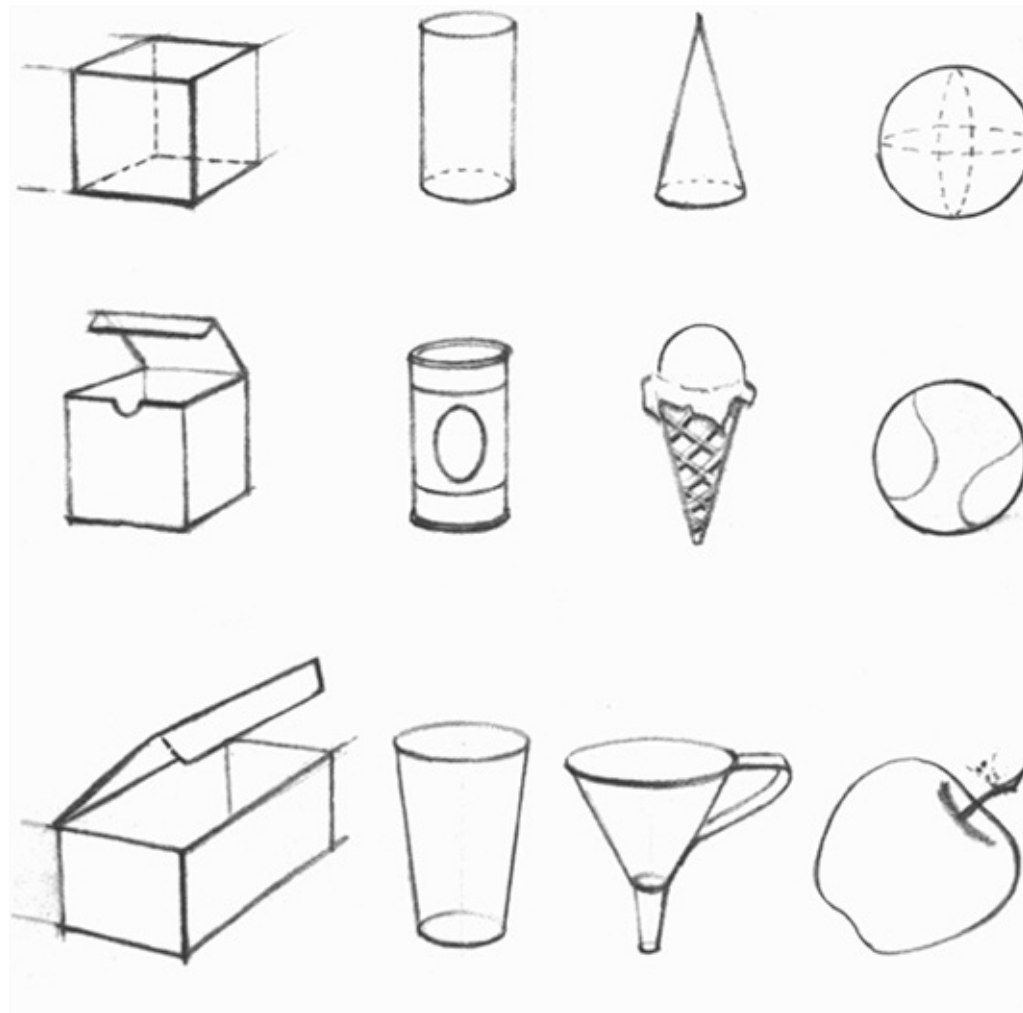
Drawing a straight line, despite the old saw about it being awfully difficult, is easy and fun to do if you use the right approach (Figure F). Begin this very moment. Don't procrastinate. It doesn't matter in the least if the way you hold your pencil isn't the same as mine.

Hold your pencil in the usual writing position or “under the palm”, whichever feels more comfortable (Figures G and H). Swing the straight lines from the elbow, not from the wrist. Swinging from the wrist will make your stroke too short and your line will be choppy and labored.

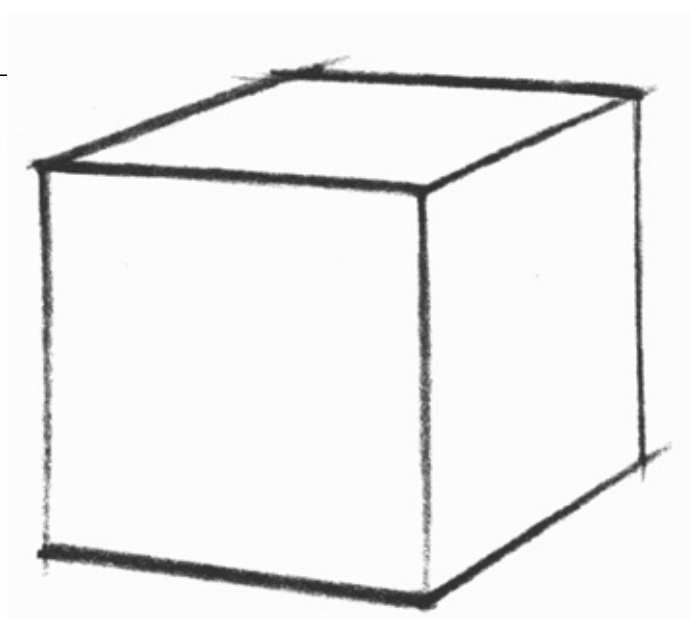
## Angle and Direction of Lines

By practicing, you’ll discover the best angle at which you can draw a straight line. Then, all you have to do is turn the paper to execute a horizontal, a vertical, or a diagonal line. Try them all. My own personal choice is in a northeasterly direction, beginning at the southwest. Your favorite direction may turn out to be the same or it may be a horizontal line that runs from west to east. The direction of the line isn’t important. It’s the spontaneity and directness of the line that really matters.

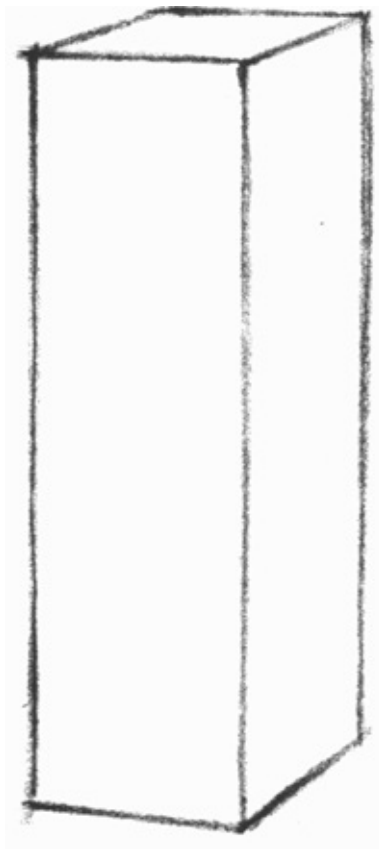
Don’t be timid and make short stabs at drawing lines. Dash them off with one stroke. No one is going to see or evaluate them. Relax. Let yourself go, and swing away so that you can limber up your entire arm. If you can draw a straight line in any direction—without turning the paper—you’re to be envied. Find out right now if you’re one of the fortunate few.



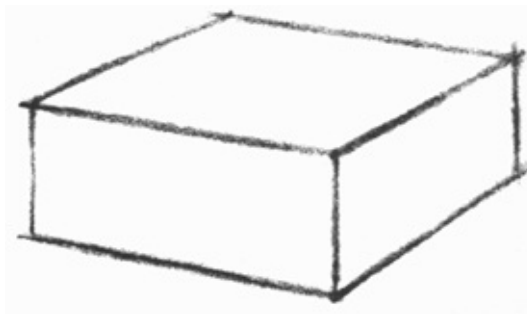
**Figure A.** Actual objects can conform rigidly to the four basic forms—cube, cylinder, cone, and sphere—as shown in the top two rows. Usually, however, they’re based on these geometric forms. As shown in the bottom row, the box is elongated but still cubic. In the tumbler, the cylinder form is tapered; in the funnel, the cone shape has been truncated; and the apple, despite its bulges and indentations, is still basically spherical.



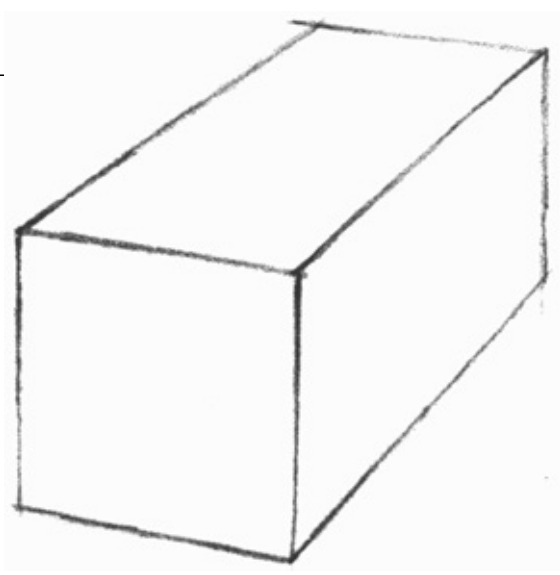
**Figure B.** This is the geometric cube, with its six sides all exactly the same size.



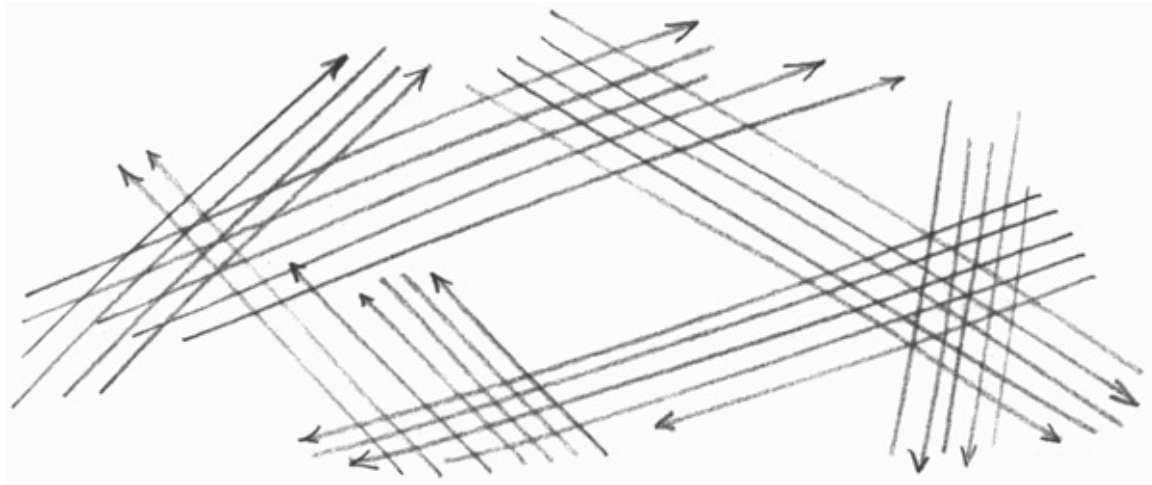
**Figure C.** This is a cubic form. It's no longer equilateral, because four of its sides are rectangular and its ends are square, but it's still based on the cube. It's like a quarter pound of butter.



**Figure D.** If you were to slice a cube into three sections, this is one of the cubic forms that you'd get.



**Figure E.** *Joining two or three cubes together would give you a cubic form like this—something like a box of crackers. Remember that although Figures C, D, and E aren't perfect cubes, they're cubic in character.*



**Figure F.** *Draw lines freehand with one motion. The arrows indicate that I've drawn all these lines from left to right, obtaining the different angles simply by turning paper. Since there's hardly a drawing that doesn't require some straight lines, it's important to practice drawing them as often as possible.*



**Figure G.** *You can hold your pencil in either of two ways, whichever feels the more comfortable. Here I'm holding the pencil in the usual writing position.*





**Figure H.** *If you prefer, you may hold your pencil as shown here in the “under the palm” position. Both positions work equally well.*

# Eye Level: Foundation of Perspective

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For this project, use the same pencil that you used in [Project 1](#), but once again, any office pencil will do. As a matter of fact, you'll use a simple pencil through succeeding projects until I ask you to change to another drawing medium.

It's my firm belief that students fail in their attempts at drawing because they're unaware of *eye level*. Actually, it's such a simple concept, so seemingly obvious, that perhaps it's the very quality that causes it to be overlooked.

Eye level refers to the *height at which your eyes observe an object*. I suggest that you write this sentence and place it where you can see it often, so that it becomes part of you. It's that important to your development as an artist.

## Changing Shapes and Eye Level

To actually demonstrate what I mean by eye level, I'd like you to lie prone on the floor. Notice that you see the *bottom*, not the top, of most objects. Now sit up and notice the difference; move to a chair and again observe that as you raise your eye level, the top planes of objects come into view. If you were to climb a ladder to the ceiling, everything below you would show its top plane. Sounds simple enough, doesn't it? Well it is!

## Vanishing Points

The cubic form in [Figure A](#) is *seen at eye level*, and shows only two of its six sides. Its horizontal lines converge down to and up to their respective *vanishing points*. A vanishing point is an imaginary point on the eye level, or horizon, where the parallel edges of a cubic form appear to converge and meet.

Converging lines, eye level, and vanishing points all add up to *perspective*. It's a word of Latin origin meaning "to look through." In other words, you view an object as though it were transparent and you could see all its sides—front and back.

Actually all you have to do to draw an object in perspective is to *observe closely*. What's the angle and length of one edge compared to another? What's the length and width of a plane in relation to its neighbor? Asking yourself these kinds of questions as you view an object will help sharpen your powers of observation.

The cubic form in [Figure B](#) has all its lines *rising* to the vanishing points because I've placed this cube *below* eye level. All the lines of the cube in [Figure C](#) go *down* to their vanishing points because I've placed the cubic form *above* the eye level. In short, if the cubic form is *at* eye level, the lines, (that form the sides of the cube) come down from the top edges and go up from the bottom edges to their vanishing points on the horizon. If the cubic form is *below* eye level, all converging lines go *up* to vanishing points on the horizon. If the form is *above* eye level, all the converging lines come *down* to vanishing points on the horizon.

## Cube in Perspective

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I've chosen a cubic form as your first subject because it's the easiest to draw, and you can use your straight lines to work. Furthermore, the cube demonstrates clearly the illusion of the three dimensions—height, width, and depth—that you must convey on the flat surface of the paper. If you can portray these dimensions, you'll be able to draw realistically, no matter what the subject.

So from this moment, on, remember the three dimensions inherent in everything. Naturally, each dimension can vary. The height of a cubic object can be greater than its width or depth, or the width can be the largest dimension of the three. As long as you're aware of the relationship, you'll be amazed at the progress you'll make.

Now take a box from your pantry—any box, regardless of its shape—and hold it at eye level. Turn it so you can see only two of its sides (see [Figure A](#)). If the design on the package proves distracting, tear the paper covering off it and work with the bare box.

## Judging Size Relationships

Let me reiterate that drawing realistically means drawing accurately. Whatever proportions your box may have, check the relationship between one side and the other. Notice that in the box I've drawn ([Figure D](#)), its length is about twice its width. The three boxes in [Figure D](#) are seen at three different eye levels. Draw your box in the three different positions of [Figure 1](#). You'll be employing the method of drawing straight lines that you learned in [Project 1](#). It won't matter at all if your box isn't the same shape as mine. The main thing is for you to be aware of the object's planes as you raise it or lower it above or below your level of vision.

When you're satisfied that you can draw a cubic shape at eye level, continue with views 1 and 3 of [Figure D](#). Refer to the diagrams in [Figures A, B, and C](#). In the boxes you draw be sure that the lines converging to vanishing points 1 and 2 are at the proper slant, even though the lines can't extend all the way to their respective vanishing points on the eye level—simply because the paper isn't big enough.

## Objects Below Eye Level

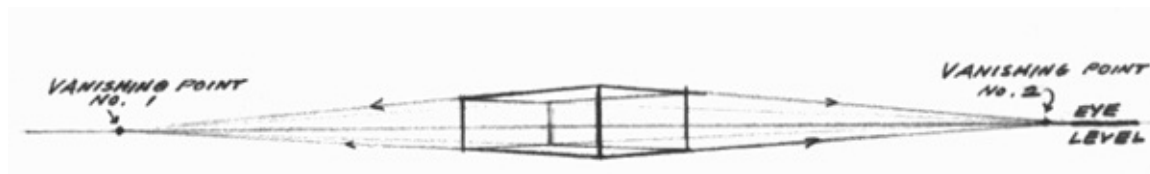
Most of the objects you'll draw (at least at the beginning) will be indoors and below eye level, because interiors—furniture, rooms, etc.—are scaled to a size that humans can manipulate. Therefore, the reason for drawing objects below eye level is quite obvious. Look around you and notice that even as you sit you can see the tops of tables, chairs, sofas, etc. When you can see the *top* of an object, it means that it's *below* the eye level or horizon. Since most of the work you'll do will be from a sitting or a standing position, I'd like you to observe the appearance of things from that viewpoint.

## Practice Exercises

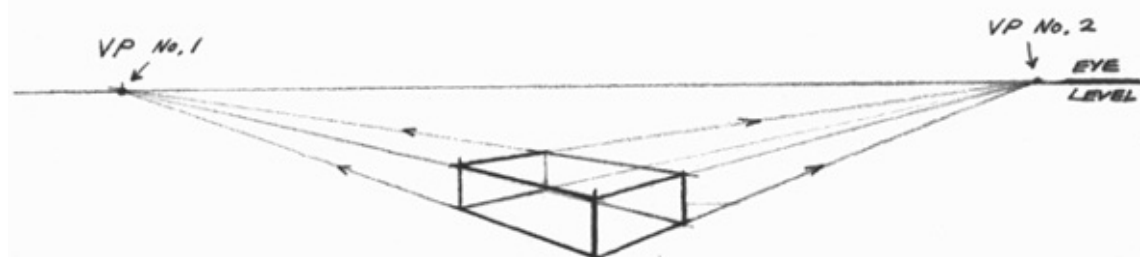
Collect four boxes and draw them at different distances below eye level. You might place them on top of one another and draw the topmost first; remove it and draw the second, and so on until you've drawn the fourth. Notice that as you come down to the lowest box, you see more of its top plane than you did on the first box ([Figures E and F](#)). Compare the top plane

of all four of them when you've finished.

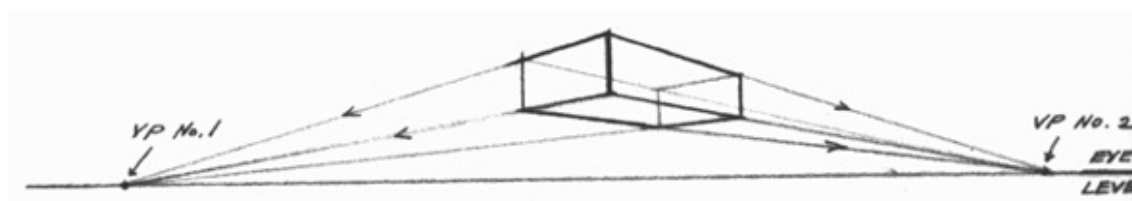
This one and others to follow (Figures G and H) are *practice exercises*, and they're indispensable. They aren't drawings worthy of being hung on a wall, any more than the pianist's exercises would be performed in a concert hall. Yet, as you know, the pianist submits to daily practice not only to acquire his technique, but to sharpen and control it, even after he has mastered the instrument. Flip through the pages of this book, if you haven't done so already, and you'll see that you're going to draw everything, not just boxes. But first you must find your feet before you can run.



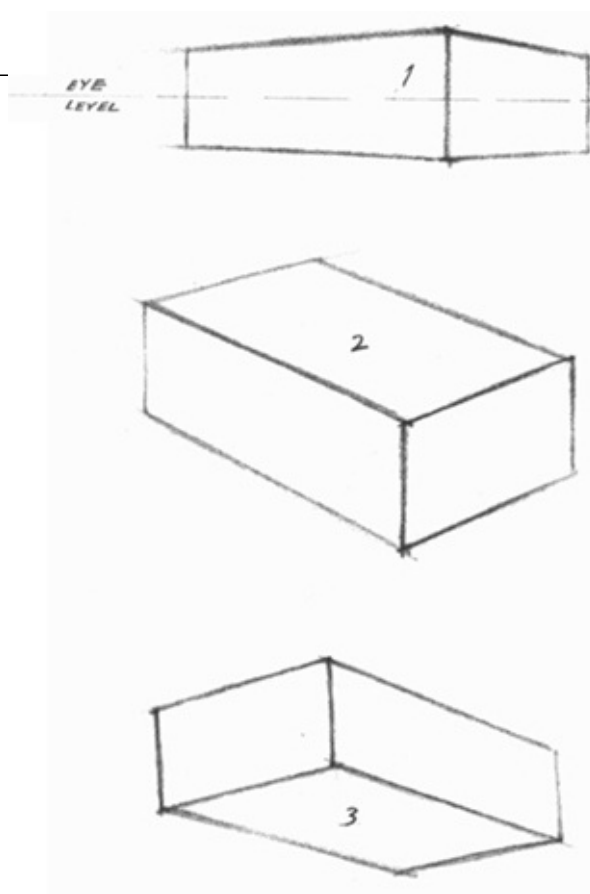
**Figure A.** At eye level the converging lines of the sides of the box come down from the top edges and go up from the bottom edges to meet and vanish at imaginary points on the horizon (or eye level) called vanishing points.



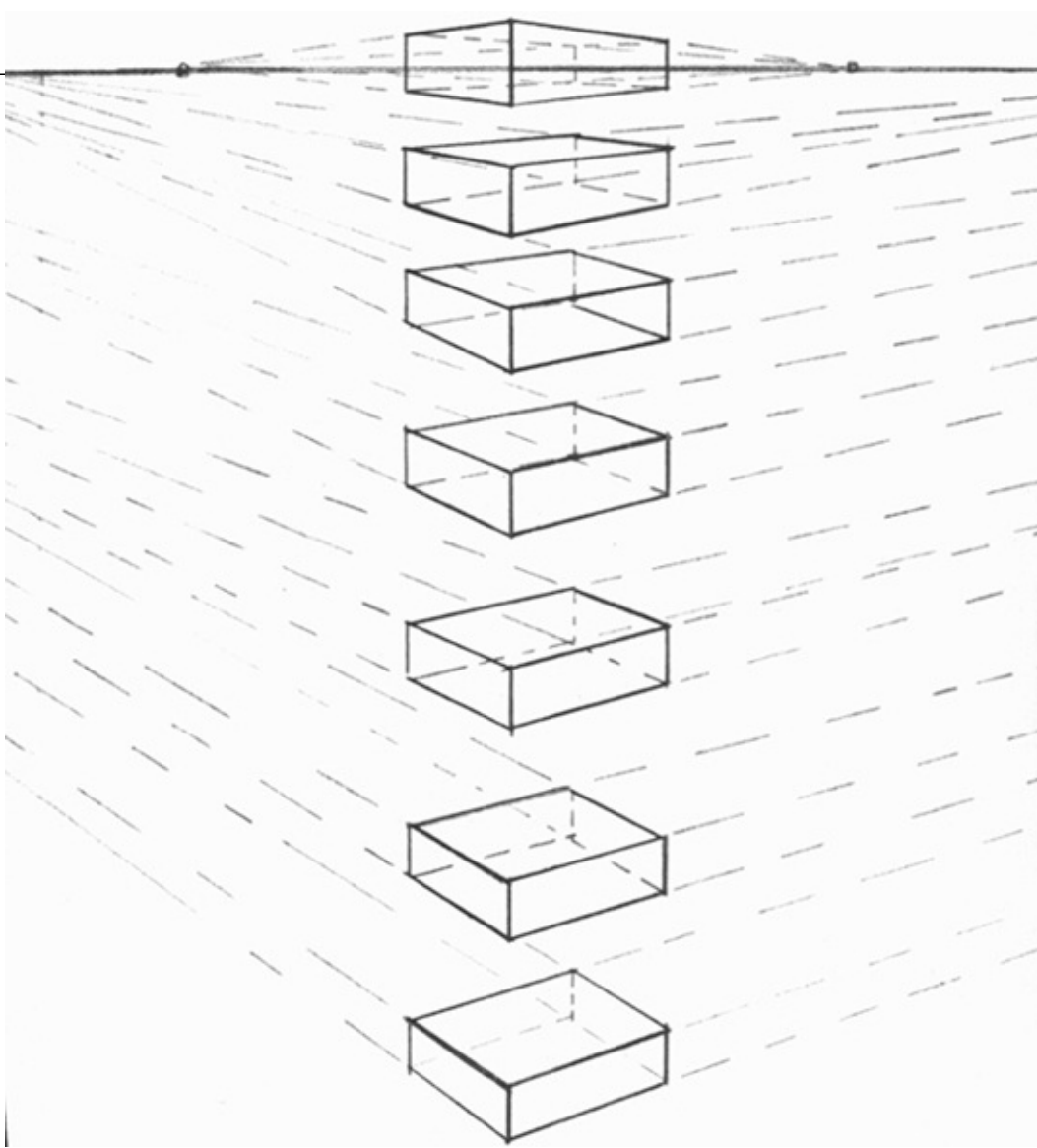
**Figure B.** When the cubic object is below eye level, all converging lines go up to their respective vanishing points. The arrows show the direction in which the parallel lines extend to the eye level.



**Figure C.** When the cubic object is above eye level, all converging lines come down to their respective vanishing points.

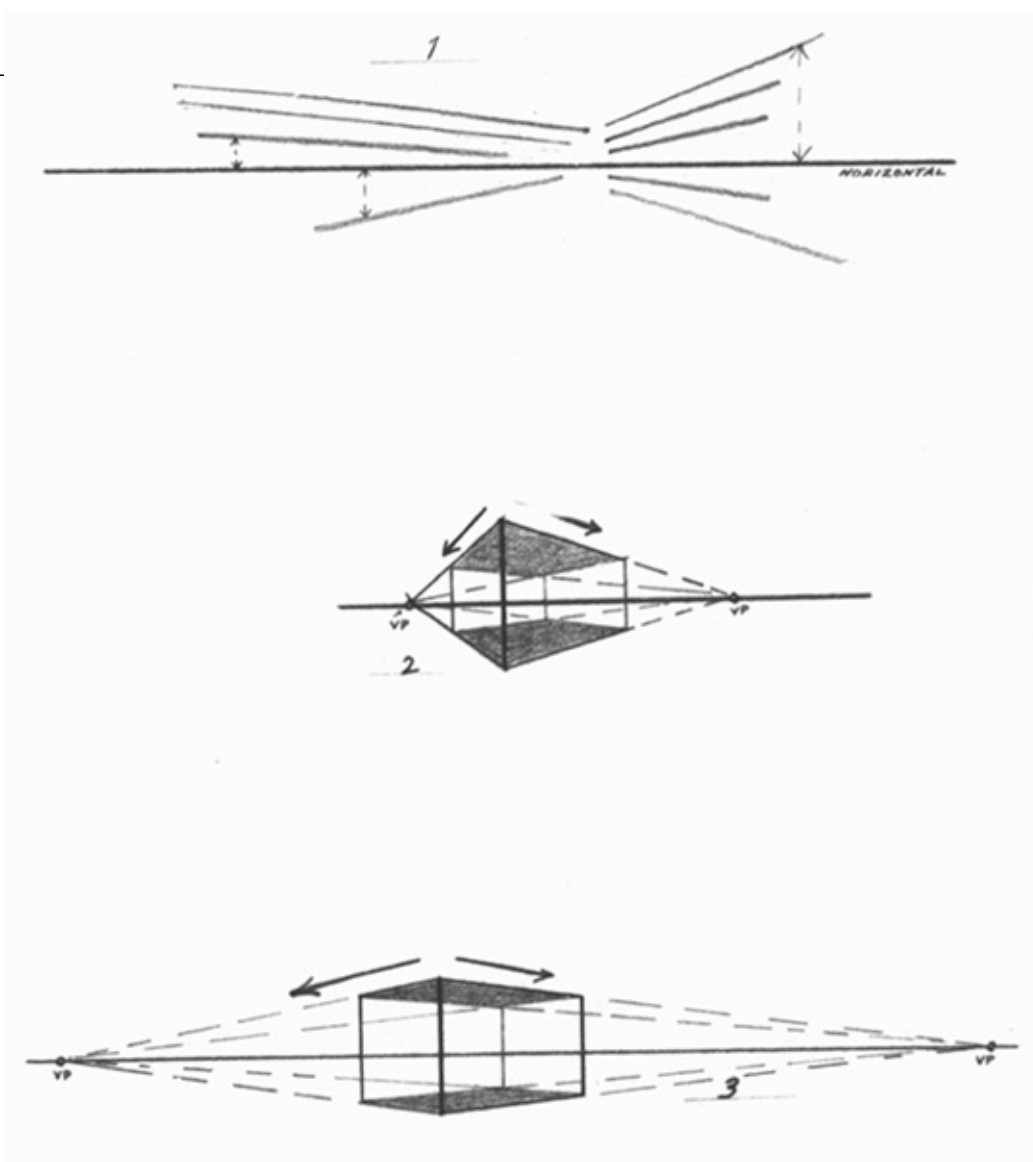


**Figure D.** These three boxes are at three different eye levels: in view 1 the box is at eye level; in view 2 the box is below eye level; and in view 3 the box is above eye level.

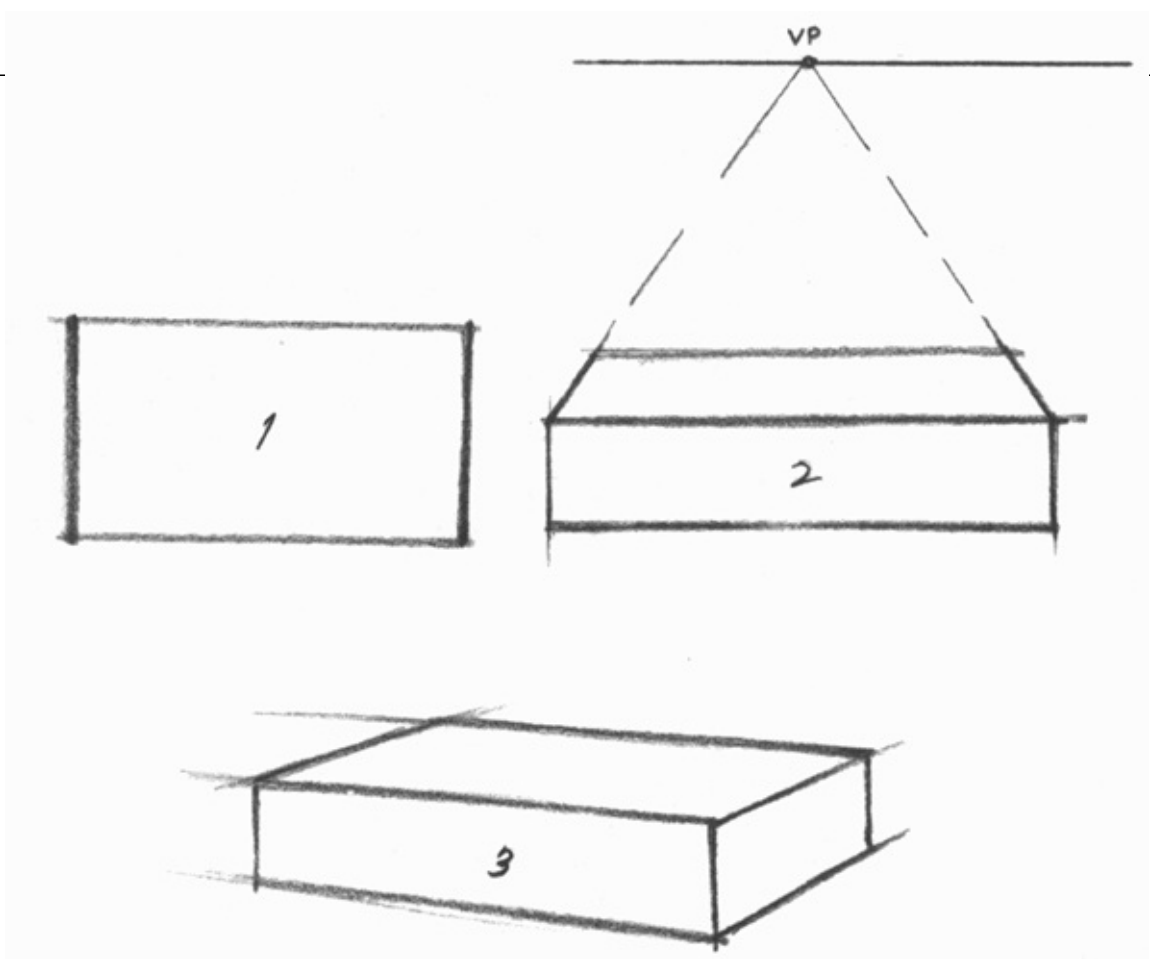


**Figure E.** As an object gets farther away from the eye level, its verticals get shorter and its vanishing points get farther away from the object.

**Figure F.** If you were to view this image upside down, you would see that the same principle applies when you're looking up at the object. In this and the following projects, the vanishing points will usually be beyond the borders of your paper.



**Figure G.** Ask yourself how much the line of an object departs—up or down—from the horizontal, as the diagram shows at view 1. If the diagonals are incorrect, you get the distortion shown at view 2. Note that the proper angle at view 3 gives you the correct form, because the diagonals run farther out to their vanishing points.



**Figure H.** A cubic form presents no problem at all if you place it squarely in front of you with only one side visible, as seen at view 1. The horizontals remain horizontal and there's no angle to check. But notice that you lose the cube's sense of solidity and it becomes a flat rectangle. The moment two sides are visible, as in view 2, the cube begins to convey a sense of bulk. There's only one vanishing point here; this is called one point perspective. When three sides are shown, as in view 3, the horizontals have become diagonals, but there's no question about the cube's volume and the space it occupies.



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