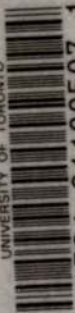


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# COMPOSITION

A SERIES OF EXERCISES IN ART STRUCTURE  
FOR THE USE OF STUDENTS  
AND TEACHERS

BY

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1/1

# CONTENTS

	PAGE
BEGINNINGS . . . . .	3
THE THREE ELEMENTS	
I.—Line, Notan, Color . . . . .	7
LINE DRAWING	
II.—Japanese materials and brush practice . . . . .	15
Lines by Masters . . . . .	17
Brush drawings . . . . .	19, 96, 99
PRINCIPLES OF COMPOSITION	
III.—Ways of creating harmony . . . . .	21
Opposition . . . . .	21
Transition . . . . .	22
Subordination . . . . .	23
Repetition . . . . .	24
Symmetry . . . . .	28
LINE	
IV.—Composition in Squares and Circles . . . . .	33
V.—Composition in Rectangles—Variation . . . . .	38
Pottery forms . . . . .	42, 43
VI.—Landscape Composition . . . . .	44
VII.—Composition in Representation . . . . .	49
NOTAN	
VIII.—Harmony-building with Dark-and-Light . . . . .	53
IX.—Two Values, Variations—Design . . . . .	59
Flower compositions . . . . .	62
Textile patterns and rugs . . . . .	67
X.—Two Values, Landscape and Pictures . . . . .	69
Spotting, Notan of Pictures . . . . .	70
Sketches from Nature . . . . .	73
XI.—Two Values—Gothic Sculpture, Japanese Design books, Appli- cations of two values . . . . .	75
XII.—Three Values . . . . .	82
Landscape and pictures . . . . .	89

	PAGE
NOTAN, continued	
Applications, three values . . . . .	84
XIII.—More than three values . . . . .	89
Illustration . . . . .	90
Etching . . . . .	90
Pen Drawing . . . . .	90
Pencil Sketching . . . . .	95
Ink Painting . . . . .	96
COLOR	
XIV.—Color Theory . . . . .	100
Hue . . . . .	101, 103
Notan of Color . . . . .	102, 105
Intensity . . . . .	108, 109
XV.—Color derived from Notan . . . . .	113
XVI.—Color schemes from Japanese prints and from textiles . . . . .	117
Application to design . . . . .	116, 117
Copying color from textiles . . . . .	119
COMPOSITION	
XVII.—In Design and Painting . . . . .	120
Wood Block Printing . . . . .	120, 121
on paper . . . . .	125
on cloth . . . . .	125
Picture Printing . . . . .	125
Stencilling . . . . .	126
Colored Charcoal . . . . .	127
Painting in full color . . . . .	127
Conclusion . . . . .	128





# BEGINNINGS

**I**N writing this book my main purpose is to set forth a way of thinking about art. The most that such a book can do is to direct the thoughts, awaken a sense of power and point to ways of controlling it.

The principles of art teaching here outlined might be illustrated in other ways and with better examples. I hope the reader will see how each chapter can be developed into many sets of lessons. The progressions can be varied, materials changed, lessons amplified and different designs chosen, providing there is no sacrifice of essentials.

The book is based upon my experience in painting and teaching for more than twenty years. The first edition of *Composition* was published in 1899. In this revision I have made many additions and used new illustrations without departing from theory or principles.

*Composition* was chosen as a title because that word expresses the idea upon which the method here presented is founded—the “putting together” of lines, masses and colors to make a harmony. Design, understood in its broad sense, is a better word, but popular usage has restricted it to decoration.

Composition, building up of harmony, is the fundamental process in all the fine arts. I hold that art should be approached

through composition rather than through imitative drawing. The many different acts and processes combined in a work of art may be attacked and mastered one by one, and thereby a power gained to handle them unconsciously when they must be used together. If a few elements can be united harmoniously, a step has been taken toward further creation.

Only through the appreciations does the composer recognize a harmony. Hence the effort to find art-structure resolves itself into a development of appreciation. This faculty is a common human possession but may remain inactive. A way must be found to lay hold upon it and cause it to grow. A natural method is that of exercises in progressive order, first building up very simple harmonies, then proceeding on to the highest forms of composition. Such a method of study includes all kinds of drawing, design and painting. It offers a means of training for the creative artist, for the teacher or for one who studies art for the sake of culture.

This approach to art through Structure is absolutely opposed to the time-honored approach through Imitation. For a great while we have been teaching art through imitation—of nature and the “historic styles”—leaving structure to take care of itself; gathering knowl-

edge of facts but acquiring little power to use them. This is why so much modern painting is but picture-writing; only story-telling, not art; and so much architecture and decoration only dead copies of conventional motives.

Good drawing results from trained judgment, not from the making of fac-similes or maps. Train the judgment, and ability to draw grows naturally. Schools that follow the imitative or academic way regard drawing as a preparation for design, whereas the very opposite is the logical order — design a preparation for drawing.

Soon after the time of Leonardo da Vinci art education was classified into Representative (imitative), and Decorative, with separate schools for each — a serious mistake which has resulted in loss of public appreciation. Painting, which is essentially a rhythmic harmony of colored spaces, became sculptural, an imitation of modelling. Decoration became trivial, a lifeless copying of styles. The true relation between design and representation was lost.

This error is long-lived. An infinite amount of time is wasted in misdirected effort because tradition has a strong hold, and because artists who have never made a study of education keep to old ruts when they teach.

This academic system of art-study ignores fundamental structure, hence the young pupil understands but few phases of art. Confronted with a Japanese ink painting, a fresco by Giotto or a Gothic statue he is unable to recognize their art

value. Indeed he may prefer modern clever nature-imitation to imaginative work of any period.

Study of composition of Line, Mass and Color leads to appreciation of all forms of art and of the beauty of nature. Drawing of natural objects then becomes a language of expression. They are drawn because they are beautiful or because they are to be used in some art work. Facility in drawing will come more quickly in this way than by a dull routine of imitation with no definite end in view.

The history of this structural system of art teaching may be stated in a few words; and here I am given the opportunity to express my indebtedness to one whose voice is now silent.

An experience of five years in the French schools left me thoroughly dissatisfied with academic theory. In a search for something more vital I began a comparative study of the art of all nations and epochs. While pursuing an investigation of Oriental painting and design at the Boston Museum of Fine Arts I met the late Professor Ernest F. Fenollosa. He was then in charge of the Japanese collections, a considerable portion of which had been gathered by him in Japan. He was a philosopher and logician gifted with a brilliant mind of great analytical power. This, with rare appreciation, gave him an insight into the nature of fine art such as few ever attain.



As imperial art commissioner for the Japanese government he had exceptional opportunities for a critical knowledge of both Eastern and Western art. He at once gave me his cordial support in my quest, for he also felt the inadequacy of modern art teaching. He vigorously advocated a radically different idea, based as in music, upon synthetic principles. He believed music to be, in a sense, the key to the other fine arts, since its essence is pure beauty; that space art may be called "visual music", and may be studied and criticised from this point of view. Convinced that this new conception was a more reasonable approach to art, I gave much time to preparing with Professor Fenollosa a progressive series of synthetic exercises. My first experiment in applying these in teaching was made in 1889 in my Boston classes, with Professor Fenollosa as lecturer on the philosophy and history of art. The results of the work thus begun attracted the attention of some educators, notably Mr. Frederic B. Pratt, of that great institution where a father's vision has been given form by the sons. Through his personal interest and confidence in these structural principles, a larger opportunity was offered in the art department of Pratt Institute, Brooklyn. Here during various periods, I had charge of classes in life drawing, painting, design and normal art; also of a course for Kindergarten teachers. Professor Fenollosa continued his lectures during the first year.

The growth of the work and its influence upon art teaching are now well known.

In 1900 I established the Summer School at Ipswich, Massachusetts, for the purpose of obtaining a better knowledge of the relation of art to handicraft and manual training. Composition of line, mass and color was applied to design, landscape and very simple hand work in metal, wood-block printing and textiles. Parts of 1903 and '04 were spent in Japan, India and Egypt observing the native crafts and gathering illustrative material.

In 1904 I became director of fine arts in Teachers College, Columbia University, New York. The art courses are now arranged in progressive series of synthetic exercises in line, dark-and-light and color. Composition is made the basis of all work in drawing, painting, designing and modelling — of house decoration and industrial arts — of normal courses and of art training for children.

After twenty years' experience in teaching I find that the principles hold good under varying conditions, and produce results justifying full confidence.

They bring to the student, whether designer, craftsman, sculptor or painter an increase of creative power; to the teacher, all this and an educational theory capable of the widest application.

To all whose loyal support has given impetus and advancement to this work — to the pupils and friends who have so generously furnished examples for illustration — I offer most grateful acknowledgments.

ARTHUR WESLEY DOW  
New York, 1912





# THE THREE ELEMENTS

## I. LINE — NOTAN — COLOR

**A**RCHITECTURE, Sculpture, Painting, Music and Poetry are the principal fine arts. Of these the first three are called Space arts, and take the various forms of arranging, building, constructing, designing, modelling and picture-painting.

In the space arts there are three structural elements with which harmonies may be built up:

1. **LINE.** The chief element of beauty in architecture, sculpture, metal work, etching, line design and line drawings. Nos. 1, 2, 3, 6, 23, 38.

2. **NOTAN.** The chief element in illustration, charcoal drawing, mezzotint, Oriental ink painting and architectural light and shade. Nos. 5, 59, 60, 61.

3. **COLOR.** The chief element in painting, Japanese prints, textile design, stained glass, embroidery, enamelling and pottery decoration. Nos. 8, 9, and Chap. XIV.



No. 1. LINE — Iron, XV century



No. 2. LINE Flying buttresses Chartres Cathedral

The term **LINE** refers to boundaries of shapes and the interrelations of lines and spaces. Line-beauty means harmony of combined lines or the peculiar quality imparted by special treatment.

The term **NOTAN**, a Japanese word meaning "dark, light", refers to the quantity of light reflected, or the massing of tones of different values. Notan-beauty means the harmony resulting from the combination of dark and light spaces — whether colored or not — whether in buildings, in pictures, or in nature.



No. 3 LINE. Harmony of rhythmic curves. From book of prints by Okumura Masanobu, Japanese, 18th century.

Careful distinction should be made between NOTAN, an element of universal beauty, and LIGHT AND SHADOW, a single fact of external nature.

The term COLOR refers to quality of light.

These three structural elements are intimately related. Good color is dependent upon good notan, and that in turn is dependent upon good spacing. It seems reasonable then that a study of art should begin with line. One should learn to think in terms of line, and be somewhat familiar with simple spacing before attempting notan or color. There is danger, however, of losing interest by dwelling upon one subject too long. Dark-and-light massing will reveal the mistakes in spacing and stimulate to renewed effort. Color will reveal the weakness of dark-



No. 4  
LINE

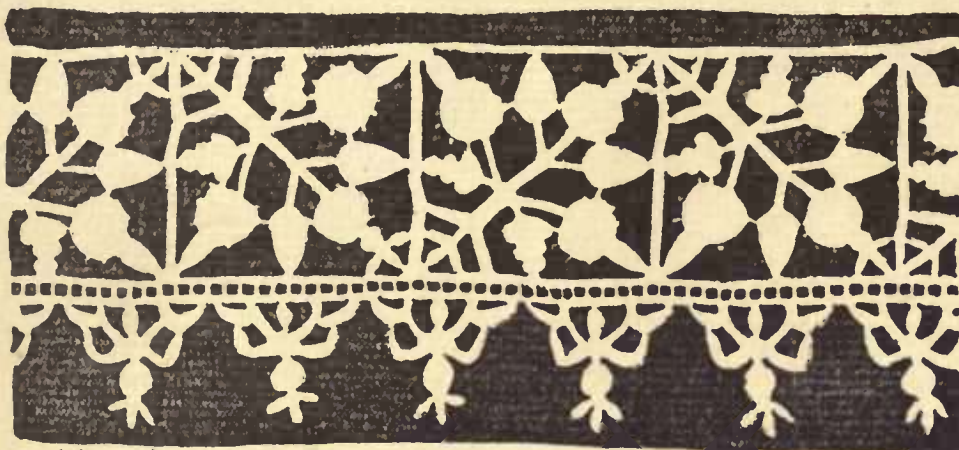
Priest, from  
Reims  
Cathedral



and-light. Very young pupils should begin with color but the instructor will take pains to include spacing and notan in each lesson. In general, however, the best plan is to take up exercises in each element in turn; then go back to them separately and make more detailed studies; then combine them, proceeding

toward advanced compositions. Whatever be the choice of progression, there must be a thorough grounding in the elementary relations of space cutting and simple massings of dark-and-light. This is essential to successful work in designing, drawing, modelling, painting, architecture and the crafts.

THE THREE  
ELEMENTS  
I.—NOTAN

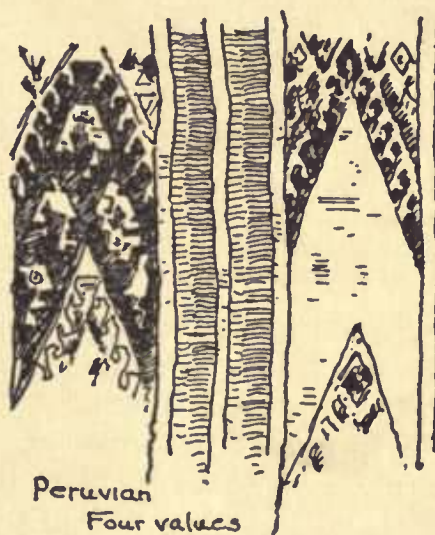


Venetian Lace Two values



Three values

No 5

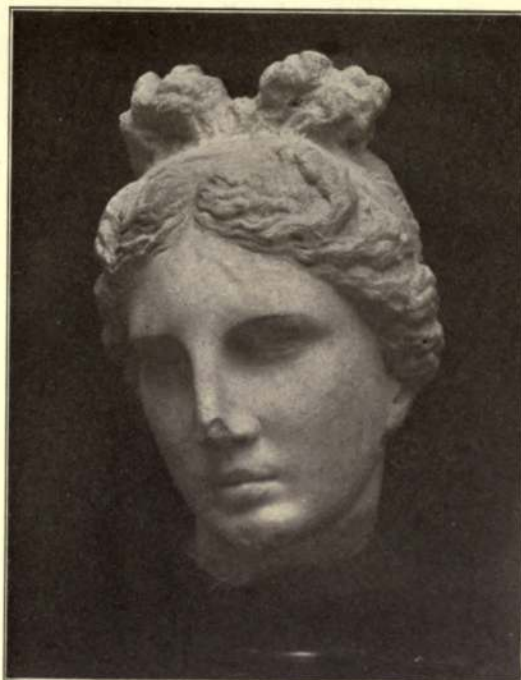


Peruvian  
Four values





THE THREE  
ELEMENTS  
I.—EXAM-  
PLES OF  
LINE  
HARMONY



Greek Sculpture  
APHRODITE  
Museum of Fine Arts, Boston  
B. Coolidge, photo.

No. 6



Gothic Sculpture  
MARY  
Cathedral of Reims,  
"The Visitation" group

THE THREE  
ELEMENTS  
I.—EXAM-  
PLES OF  
LINE AND  
NOTAN HAR-  
MONY



3808 - ROMA - Michelangelo - testa di figura decorativa - Cappella Sistina - 1498-1500



3809 - CHARTRES Cathedral - 12th century



3810 - FIRENZE - Botticelli - La Primavera - Una delle Opere - Botticelli - Coll. Acc. e Med.

No. 7

BOTTICELLI



3811 - Rhodian Ware - 12th century



THE THREE  
ELEMENTS  
I.—EXAM-  
PLES OF  
COLOR HAR-  
MONY



No. 8. HIROSHIGE "Taki no gawa at Oji"



No. 9. Persian woolen, ancient



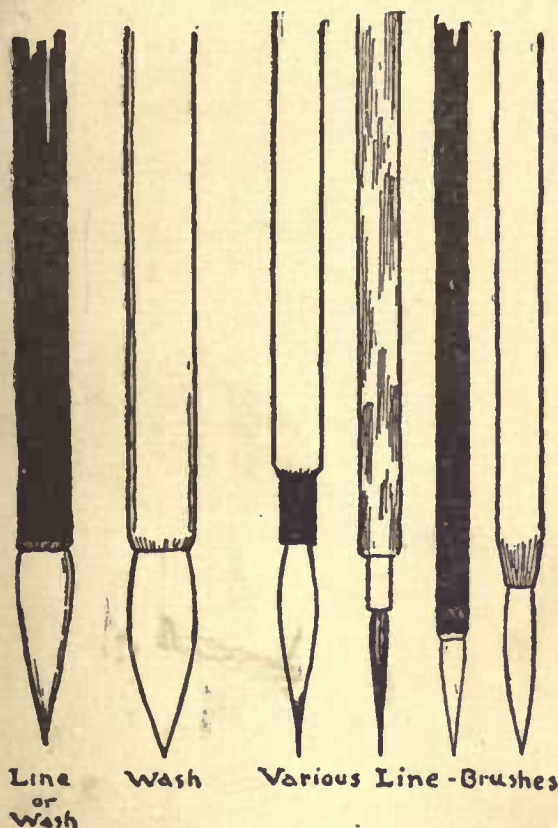


# LINE DRAWING

## II.—JAPANESE MATERIALS AND BRUSH PRACTICE

**J**APANESE brushes, ink and paper are to be preferred for exercises in line drawing, tracing, notan massing and washes in grays.

Long brushes are best for long continuous lines, short brushes for sharp corners and broken lines. For lettering, clip the point of a long line-brush. (see p. 55)



Japanese paper for artists' use is made of the bark of the mulberry tree, and is

prepared with a sizing of glue and alum. Unprinted wall paper (lining paper) is serviceable for practice work. "Bogus" paper and cover papers can also be used for line or mass.

Japanese ink must be ground upon the ink-stone, a slab of slate. Intense blackness can be secured immediately by using only a few drops of water.

Dry the ink stick, and wrap in paper; never leave it soaking. Ink of good quality, and a clean stone are essential.

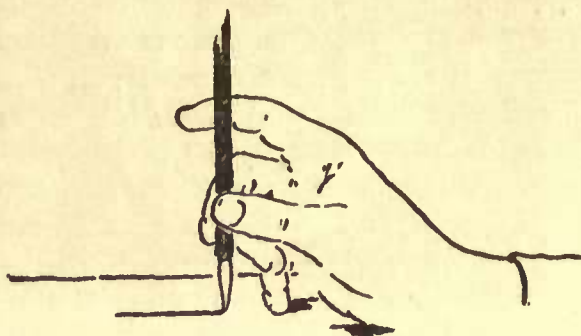
Tools perfected by ages of practice in line drawing and brush work, afford the best training for hand and eye. Painting with the Japanese brush leads directly to oil painting. If Japanese materials are not to be obtained or are not desired, the exercises can be carried on with pencil, charcoal, water colors, crayons, and even oil paint.



**LINE DRAW-  
ING  
II.—JAPA-  
NESE MATE-  
RIALS AND  
BRUSH  
PRACTICE**

For line drawing the brush is held in a perpendicular position, that it may move freely in all directions, much like the etcher's needle. The brush should be well charged with ink, then pressed firmly down upon the paper till it spreads to the width desired for the line.

Draw with the whole hand and arm in one sweep, not with the fingers. Steady the hand if necessary by resting the wrist or end of the little finger on the paper. Draw very slowly. Expressive line is not

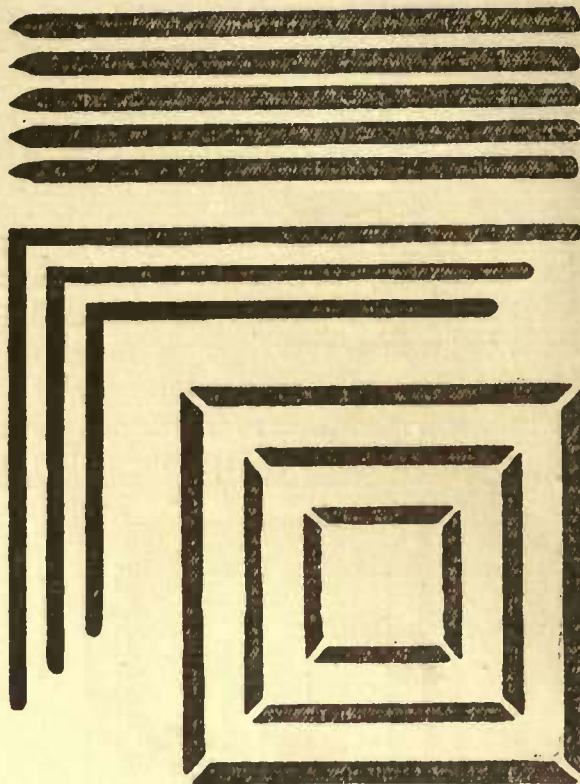


*Manner of holding the Brush*

made by mere momentum, but by force of will controlling the hand. By drawing slowly the line can be watched and guided as it grows under the brush point. Slight waverings are not objectionable; in fact they often give character to the line.

**EXERCISE**

Begin with straight lines, remembering that straightness of direction is the essential thing, not mere geometric straightness. After some practice with straight



*Practice lines drawn with Japanese Brush (reduced 1/2.)*

lines, try curves; then irregular lines. Copy brush drawings from Japanese books, for a study of control of the hand and quality of touch, No. 11, p. 19. This practice work can be done upon ordinary paper. The aim of such an exercise is to put the hand under control of the will, but too much time should not be given to mere practice, apart from design. Quality and power of line are illustrated in the drawings of masters, No. 10 and p. 18. These may be copied later on, for a study of advanced drawing.



LINE DRAW-  
ING  
II.—LINES  
BY MASTERS

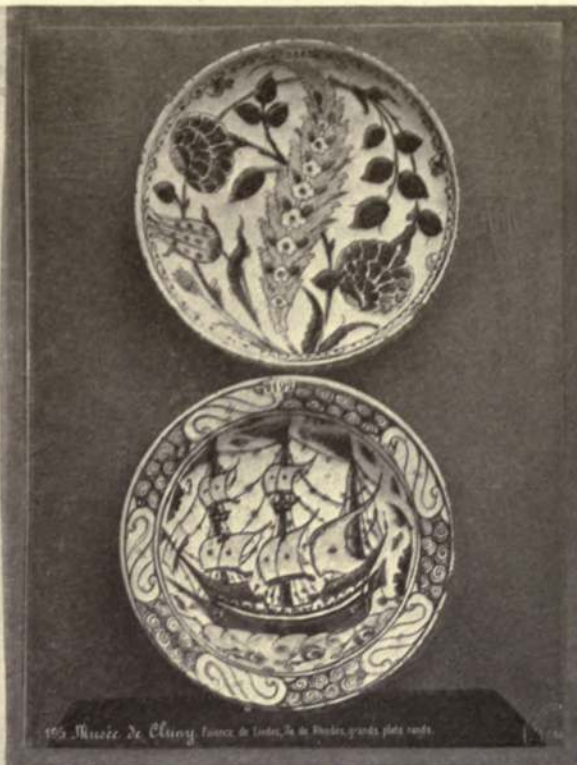


Part of screen by SOGA SHUBUN, Chinese XVcent. Museum of Fine Arts, Boston. *After the style*



KENZAN, Japanese XVIIcent. *After the style*  
Museum of Fine Arts, Boston.

No.10



165 Musée de Cluny, France, de l'ordre de Rhodien, grande plate ronde.

RHODIAN Plates, Cluny Museum, Paris.



REMBRANDT Pen drawing



LINE DRAW-  
ING  
II.—LINES  
BY MASTERS



Leonardo da Vinci (Louvre)



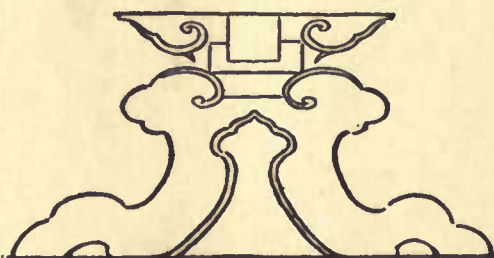
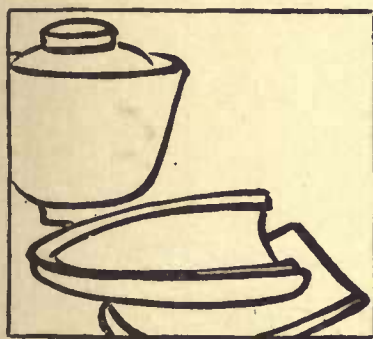
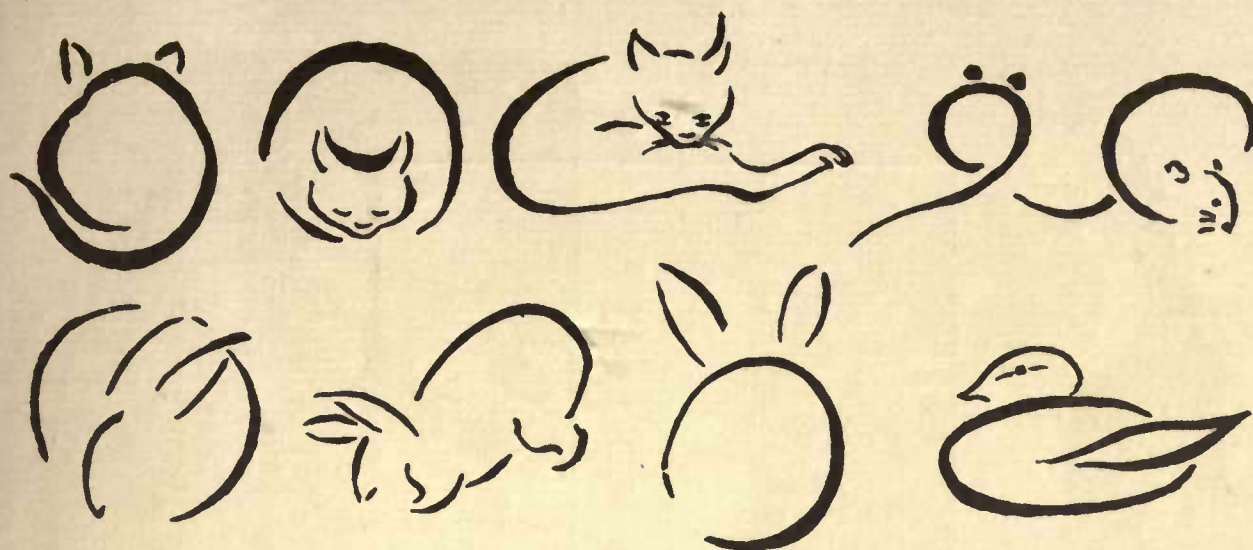
Michelangelo, drawing



Kano Tanyu, XVII cent. (part of screen, Museum of Fine Arts, Boston)



Kano Naonobu, XVII cent. (from screen in ink, Museum of Fine Arts, Boston)



Brush drawings from Japanese Books No. 11



LINE DRAW-  
ING  
II



Brush drawing (see pp. 16, 95)



# PRINCIPLES OF COMPOSITION

## III.—WAYS OF CREATING HARMONY

**F**INE art, by its very name, implies fine relations. Art study is the attempt to perceive and to create fine relations of line, mass and color. This is done by original effort stimulated by the influence of good examples.

As fine relations (that is, harmony, beauty) can be understood only through the appreciations, the whole fabric of art education should be based upon a training in appreciation. This power cannot be imparted like information. Artistic skill cannot be given by dictation or acquired by reading. It does not come by merely learning to draw, by imitating nature, or by any process of storing the mind with facts.

The power is within — the question is how to reach it and use it.

Increase of power always comes with exercise. If one uses a little of his appreciative faculty in simple ways, proceeding on gradually to the more difficult problems, he is in the line of natural growth. To put together a few straight lines, creating a harmony of movement and spacing, calls for exercise of good judgment and appreciation. Even in this seemingly limited field great things are possible; the proportions of the Parthenon and Giotto's Tower can be reduced to a few straight lines finely related and spaced.

Effective progress in composition depends upon working with an organized and definite series of exercises, building one experience upon another, calling for cultivated judgment to discern and decide upon finer and finer relations. Little can be expressed until lines are arranged in a Space. Spacing is the very groundwork of Design. Ways of arranging and spacing I shall call

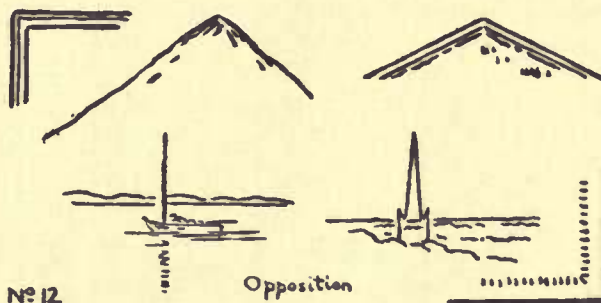
### PRINCIPLES OF COMPOSITION

In my experience these five have been sufficient:

1. OPPOSITION
2. TRANSITION
3. SUBORDINATION
4. REPETITION
5. SYMMETRY

These names are given to five ways of creating harmony, all being dependent upon a great general principle, PROPORTION or GOOD SPACING.

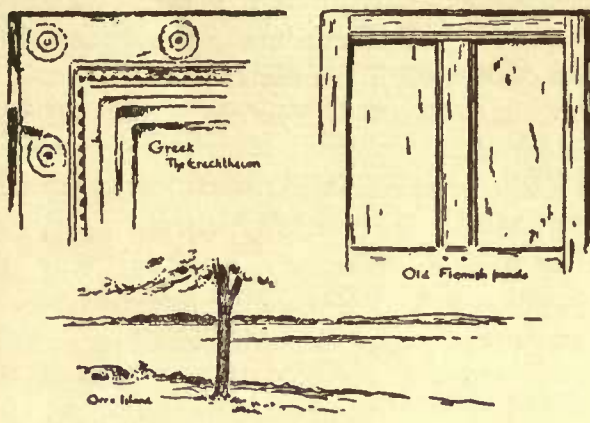
**I. OPPOSITION.** Two lines meeting form a simple and severe harmony.



No 12

Examples will be found in Greek doorways, Egyptian temples and early Renaissance architecture; in plaid design; also in landscape where vertical lines cut the horizon (see pp. 21, 45, 46.)

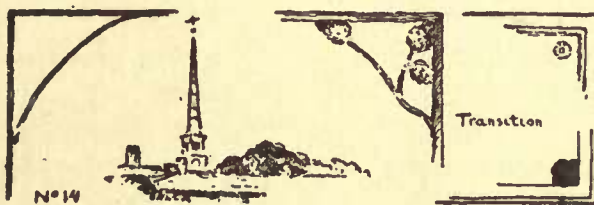
This principle is used in the straight line work in squares and rectangles, pp. 32, 33, 39, and in combination with other principles, pp. 25, 29.



No 13

Opposition

2. TRANSITION. The arrangement thus designated involves a step beyond Opposition. Two straight lines meeting in opposing directions give an impression of abruptness, severity, or even violence; the difference of movement being emphasized. If a third line is added, as in the sketches below, the opposition is softened and an effect of unity and completeness produced.



No 14

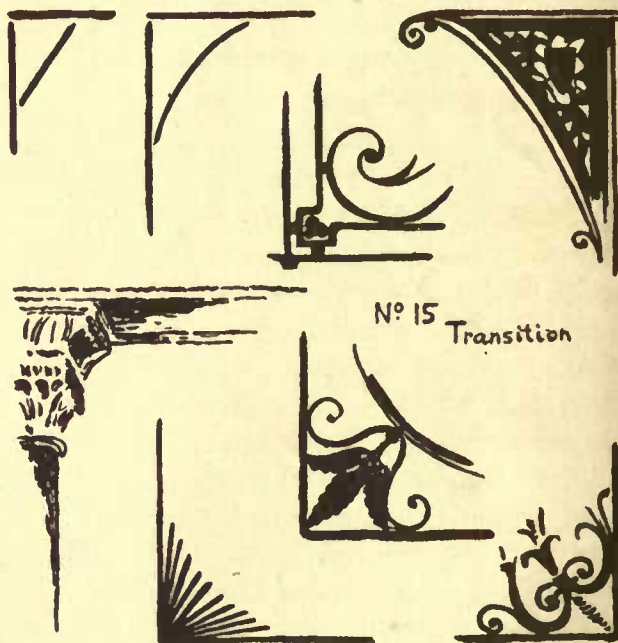
Transition

This combination typifies beauty itself which has been defined as consisting of elements of difference harmonized by elements of unity.

A very common example of Transition is the bracket, No. 15. The straight line is modified into curves and may be elaborated with great complexity of modeling.

Instead of a drawn line of transition there may be only a suggestion of one, but the effect is the same; a softening of the corner angle, No. 14 and pp. 58, 60. In pictorial art the vignette, in architecture the capital, are examples of the transition principle. In design an effect of Transition may be produced by radiation. (Illustrations below.)

Accidental transitions occur in nature in the branching of old trees, where the rhythmic lines are thus unified.



No 15 Transition



For convenience the suggestions for class work are grouped together in the following

### EXERCISE

**Opposition.** Copy the sketches and illustrations, enlarged. Design straight-line arrangements of mouldings, plaids and rectangular panellings, Nos. 13, 18, 24.

Find examples in nature, and draw in line, with brush, pen or pencil without a border.

**Transition.** Copy the sketches, as before. Draw a bracket in straight line, modifying into curved. Design corner ornaments for panels and book covers; metal work for cabinet. No. 18.

Find examples in nature and draw in line. No. 18.

It is important in all such work to make a number of sketches from which the best may be chosen.

**3. SUBORDINATION.** Neither of the foregoing principles is often found alone as the basis of a single work. Transition in particular, usually serves to harmonize the parts of a composition. The principle Subordination is a great constructive idea not only in the space arts but in all the fine arts:

To form a complete group the parts are attached or related to a single dominating element which determines the character of the whole.

A tree trunk with its branches is a good

type of this kind of harmony; unity secured through the relation of principal and subordinate, even down to the veinings of leaves — a multitude of parts organized into a simple whole.

This way of creating beauty is conspicuous in the perfect spacing and line-rhythm of Salisbury cathedral, St. Maclou of Rouen and the Taj Mahal; in Piero della Francesca's "Resurrection" and Millet's "Goose-girl"; in some Byzantine design and Persian rugs (see pp. 58, 65, 98.)

It governs the distribution of masses in Dark-and-Light composition, and of hues in Color schemes.

It appears in poetry (the Odyssey for example) in the subordination of all parts to the main idea of the subject. It is used constructively in musical composition.

Whenever unity is to be evolved from complexity, confusion reduced to order, power felt — through concentration, organization, leadership — then will be applied the creative principle called here Subordination.

In Line Composition the arrangement by principal and subordinate may be made in three ways, No. 16:

1. By grouping about an axis, as leaf relates to stem, branches to trunk.
2. By radiation, as in flowers, the rosette, vault ribs, the anthemion.
3. By size, as in a group of mountain peaks, a cathedral with its spire and pinnacles, tree clusters, or Oriental rug with centre and border; p. 65.



PRINCIPLES  
OF COMPOSITION  
III



Subordination to an Axis



Japanese,  
Sub. to a Centre



No. 16

Subordination by Size

Art-interest in any of these lies in the fineness of relation. A throwing together of large and small; mere geometric radiation; or conventional branching can never be other than commonplace. A work of fine art constructed upon the principle of Subordination has all its parts related by delicate adjustments and balance of proportions, tone and color. A change in one member changes the whole. No. 22.

To discover the meaning and the possibility of expression in this form of composition the student may work out a series of problems as suggested in this

### EXERCISE

The instructor draws flower or fruit with stem and leaves. The pupil arranges this motif in various rectangular spaces (page 25), combining the 1st and 3rd forms of subordination, and using his critical judgment in a way that is of great value to the beginner in composition. The pupil

now draws the same or similar subjects from nature, acquainting himself with their form and character; then composes them in decorative or pictorial panels — an art-use of representative drawing as well as exercise in appreciation.

Copy the examples of the 2nd kind of Subordination, and design original rosettes, anthemions, palmettes, thinking chiefly of the spacing and rhythm.

Find examples in nature; chimneys and roofs, boats with masts and sails, or tree groups. Draw and arrange in spaces. Nos. 16, 18, 26, 28, 37, 61.

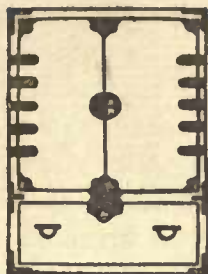
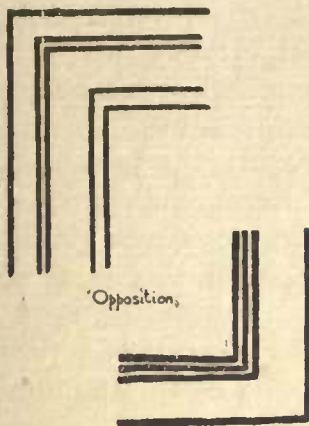
After choosing the best out of many trial sketches, draw in line with the Japanese brush. Then, for further improvement in arrangement, and refinement of line-quality, trace with brush and ink upon thin Japanese paper.

4. REPETITION. This name is given to the opposite of Subordination — the production of beauty by repeating the same lines in rhythmical order. The intervals may be equal, as in pattern, or unequal, as in landscape, see below and No. 20.

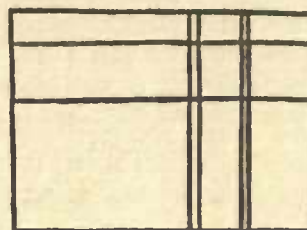


No. 17 Repetition

PRINCIPLES  
OF COMPOSITION  
III



Transition



Opp



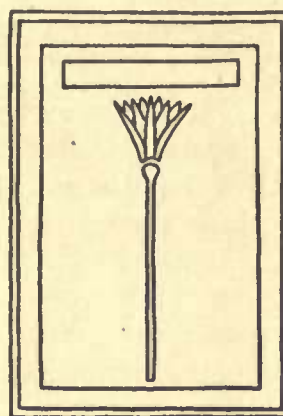
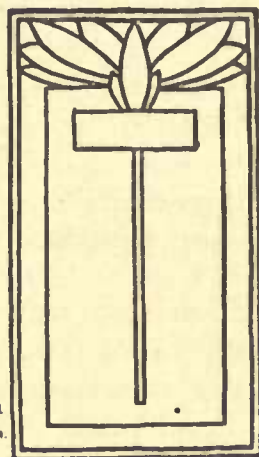
Trans.



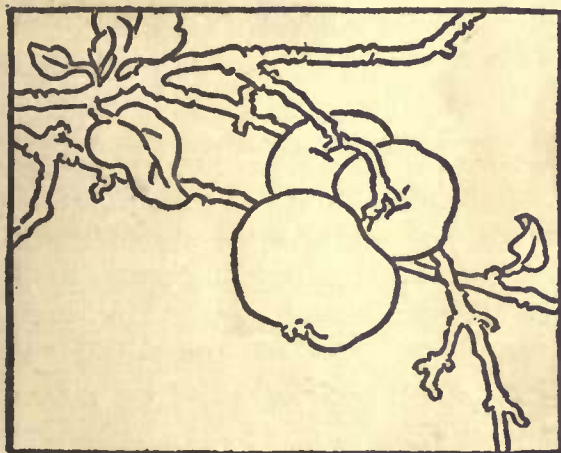
Nº18



Opp and  
Sym.



Opp.



Subord'n





Of all ways of creating harmony this is the most common, being probably the oldest form of design. It seems almost instinctive, perhaps derived from the rhythms of breathing and walking, or the movement of ripples and rolling waves. Marching is but orderly walking, and the dance, in its primitive form, is a development of marching. Children make rows and patterns of sticks or bits of colored paper, thinking of them as in animated motion. In early forms of art the figures march or dance around the vases, pots and baskets.



No 19 Peruvian Tapestry

This principle of Repetition is the basis of all music and poetry. The sacred dance of the savage is associated with the drum and other primitive instruments for marking rhythm; with the chant and mystic song. From such rude beginnings, from the tomtoms, trumpets and Pan-pipes of old, music has developed to the masterpieces of modern times through the building of harmony upon harmony,—composition.

From the crude rhythm of the savage, like the Australian song "Eat; eat; eat," from the battle cries and folk poems of barbaric peoples, there has been refinement upon refinement of word-music

ever moving towards the supreme. This gave the world the verse of Sappho which Swinburne thought the most beautiful sounds ever produced in language. From the rude patterns marked with sticks on Indian bowls and pots, or painted in earth colors on wigwam and belt, or woven on blanket, this form of space art has grown, through the complexities of Egyptian and Peruvian textile design to the splendor of Byzantine mosaic, the jewel patterns of the Moguls, and Gothic sculpture; from rock-cut pillars of cave temples to the colonnade of the Parthenon. (For examples of primitive design see the works of William H. Holmes.)

Repetition, be it remembered, is only a way of putting lines and spaces together, and does not in itself produce beauty. A mere row of things has no art-value. Railroads, fences, blocks of buildings, and all bad patterns, are, like doggerel rhyme, examples of repetition without art.

Repetition in fine spacing, with the intention of creating a harmony, becomes a builder of art fabric.

#### EXERCISE

1. Borders. Divide a long space by vertical or oblique lines at regular intervals. By connecting the ends of these with straight lines, develop many series of meanders, frets and zigzags. Waves and scrolls are evolved from these by changing straight to curved line, No. 20a, and p. 56.



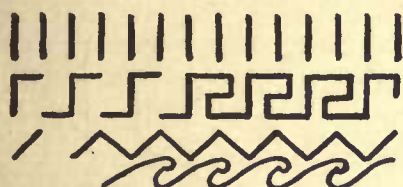
2. Surface pattern. Subdivide a space (freehand) into squares, diamonds or triangles, determining the size of the unit desired. This will give a general plan for the distribution of figures. In one of these spaces compose a simple group in straight lines, line and dot, or straight and curved, if only geometric pattern be desired; or a floral form for a sprig pattern. In the composition of this unit the principle of Subordination will be remembered.

As soon as the unit is repeated a new set of relations will be created, dependent upon the spacing. A secondary pattern forms itself out of the background spaces. Hence the designer must decide whether the unit is to fill the skeleton square completely, have a wide margin, or over-

run the square. Repeating the figure in these various ways will determine the best size. The main effort should be given to producing a fine relation between one unit and its neighbors and between pattern and background. All the best work in Repetition has this refined harmony of spacing. No. 20b below and pp. 13, 65, 66, 85.

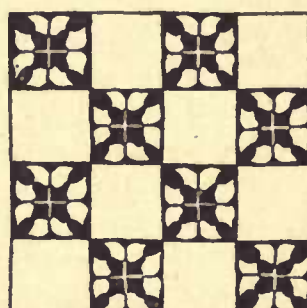
Copy the illustrations of Repetition in this book, and make original variations of them. Copy, in line, the units of early Italian textiles, Oriental rugs or any of the best examples to be found in museums or in illustrated art-books. See "Egg and Dart" from the Parthenon, p. 30, also pp. 67, 121.

For anatomy and planning of pattern, see the works of Lewis F. Day.



No. 20

a



Simple pattern plane



27



Two Tracings from fine old patterns

b

**SYMMETRY.** The most common and obvious way of satisfying the desire for order is to place two equal lines or shapes in exact balance, as in a gable, windows each side of a door, or objects on a shelf. The term Symmetry applies to three- and four-part groups, or others where even balance is made, but here it refers mainly to a two-part arrangement.

Sometimes construction produces Symmetry, as in the human body; ships; Greek and Renaissance architecture; furniture; pottery; books. Partly from this cause and partly through imitation, Symmetry, like Repetition, has come to be used in cheap and mean design where no regard is paid to beauty of form.

Japanese art, when influenced by Zen philosophy, as Okakura Kakuzo tells us in "The Book of Tea", avoids symmetry as uninteresting. In Gothic art, the product of richly inventive and imaginative minds, symmetry was never used in a commonplace way.

This Principle of Composition — when united to fine spacing, — produces, in architecture an effect of repose and completeness; in design a type of severely

beautiful form, as seen in a Greek vase or the treasures of the Sho-so-in at Nara where so much of the older Japanese art has been preserved.

A few examples of Symmetry are given here; the student will readily find others. Exercises can be easily devised, following the steps suggested under other principles. See opposite, and Nos. 42, 43.

**PROPORTION or GOOD SPACING.** Principles of Composition, I must repeat, are only ways of arranging lines and shapes; art is not produced by them unless they are used in combination with this general principle, — Good Spacing. They are by no means recipes for art, and their names are of little consequence. Appreciation of fineness of relations must always govern the method and form of composition. It is possible to use all the principles here discussed, and to complete all the exercises, without gaining much, if any, art experience. The main thing is the striving for the best, the most harmonious, result that can be obtained. One way to accomplish this is to compare and choose continually — making many designs under one subject and selecting the best.

The great general principle of Proportion needs no special illustration or exercise, because it is so intimate a part of all other principles and exercises. It may be studied in every example of supreme art. It is the foundation of all the finest work in line and mass. The mystery of Spacing will be revealed to the mind that has developed Appreciation.



No. 21 Symmetry



PRINCIPLES  
OF COMPOSI-  
TION  
III



PINTERICCHIO



Chinese screen MFA Boston (Gardner photo)

No.22



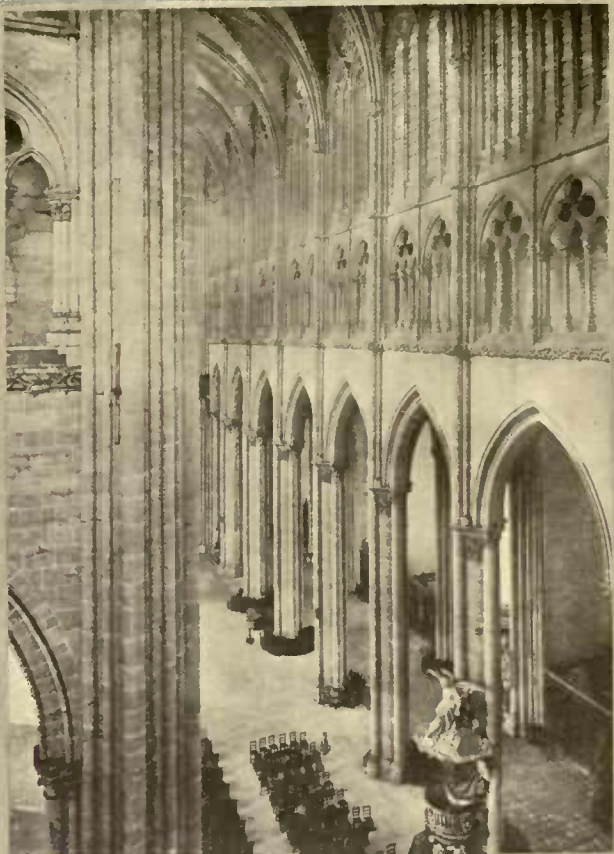
MAUVE Water Color    Reputation    (Gardner photo)



Iron Escutcheons MFA Boston (Gardner photo)



PRINCIPLES  
OF COMPOSI-  
TION  
III



No.23

Ara. Catedral. Lugo.



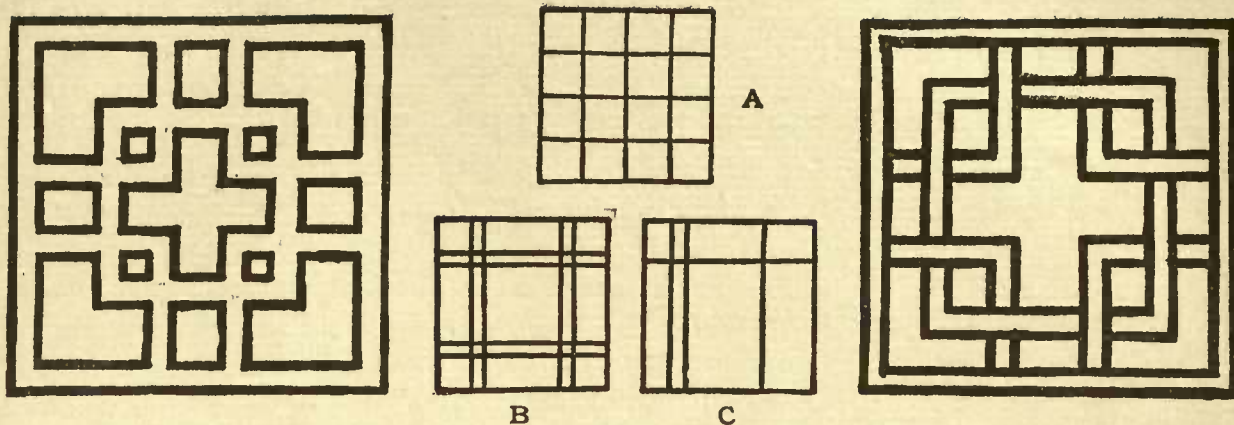
Greek vase. Museum of Fine Arts, Boston.



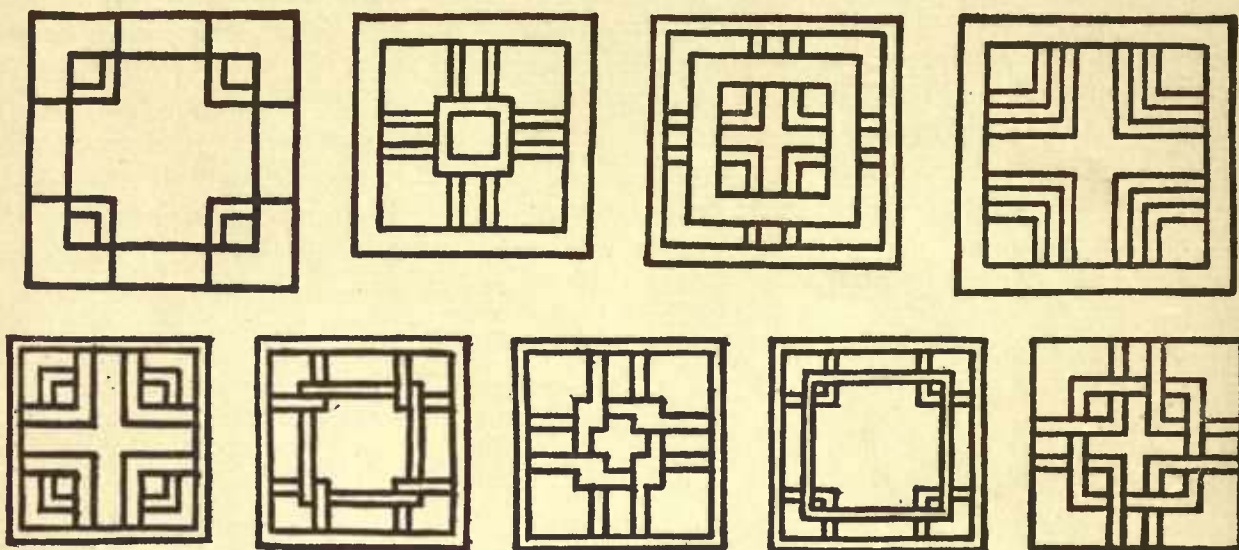
Catedral. Lugo. Interior view.



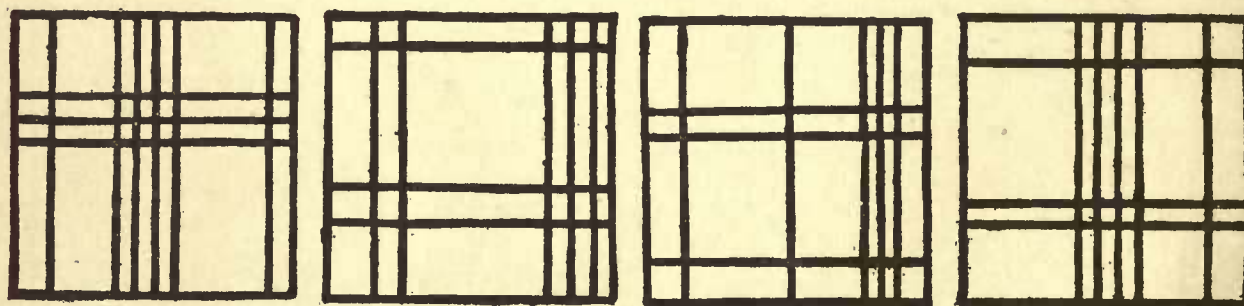




A. Geometric only, no choice possible, hence no art



Eleven variations of motif B, regular spacing



Four variations of motif C, irregular spacing



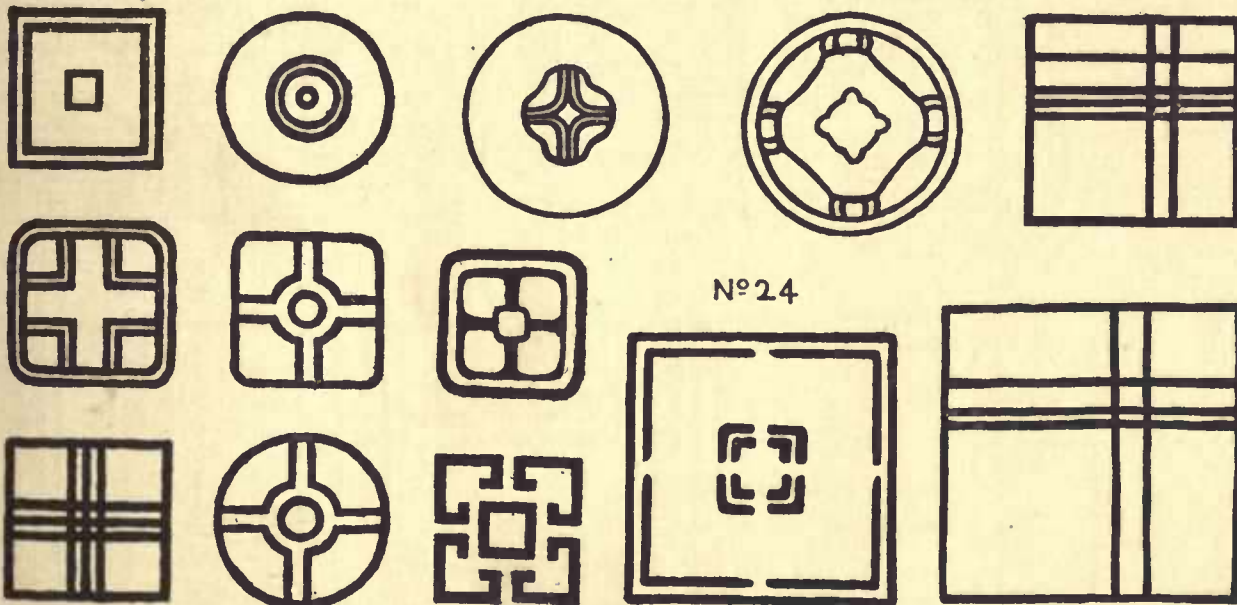
# LINE

## IV.—COMPOSITION IN SQUARES AND CIRCLES

**A**FTER working with the principles long enough to understand their nature, and to see what can be done with them, the student is ready for problems in composition. Practice in line arrangement is a preparation for all kinds of art work, be it design, painting, sculpture or architecture.

Choose an enclosed area of definite and regular shape, and break it up into a harmonious group of smaller areas by drawing lines. For these elementary exercises in composition the square and circle are best because their boundaries are unchangeable, and attention must be fixed upon interior lines. Take first the

square, using straight lines of equal thickness drawn with the brush as suggested in chapter II. The result should be a harmony of well-cut space, a little musical theme in straight lines and grouped areas. Make many trial arrangements, sketching lightly with charcoal on "bogus" or lining paper. Select the best, correct them, and draw with brush and ink over the charcoal lines. From these choose the most satisfactory, place thin Japanese paper over them and trace in firm black lines, freehand, with the Japanese brush. Avoid hard wiry lines and all that savors of rule and compass or laborious pains-taking. Use no measure



LINE  
IV.—COMPO-  
SITION IN  
SQUARES  
AND  
CIRCLES



Andrea della Robbia



Ghiberti



Nº 25

Raphael  
"Justice"

34



Lattice, Pamposa, Italy



Pompeii, Tomb relief



of any kind ; sizes, shapes and directions must be decided upon without mechanical aids.

Never try to erase an ink line, — if a mistake occurs begin again.

Tracing, for the art-purpose of improving proportions and acquiring an expressive brush-touch, is a most valuable help to the production of good work. Architects use tracing-paper for changes in plans. Japanese artists trace again and again until satisfied with the quality of touch and strength of drawing.

Straight line is chosen for elementary practice because of its simplicity, and because it prepares for work with curves. The finest curve is measured by a series of straight lines in harmonic relations of rhythm and proportion (p. 42). After some experience with straight line, cut areas with curved,—geometric, flower, fruit, landscape or figure.

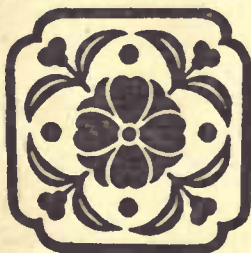
Equal thickness of line is advisable now, to fix attention upon direction, touch and spacing. Variation in width will come later in notan of line (page 54) and in representative drawing (page 51) where texture and modelling are to be indicated.

The main purpose of this and all exercises in this book is the creation of harmony, hence if the result has but a slight degree of line-beauty it can be considered a first step in Art.

The examples are chosen from students' work, from Japanese books, from design, craft and architecture. They illustrate various ways of treating squares and circles according to principles of composition.

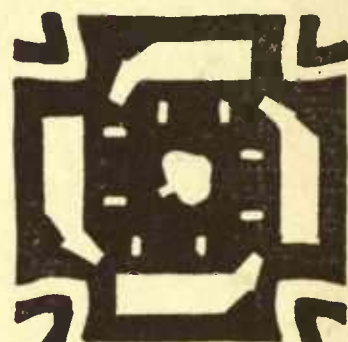
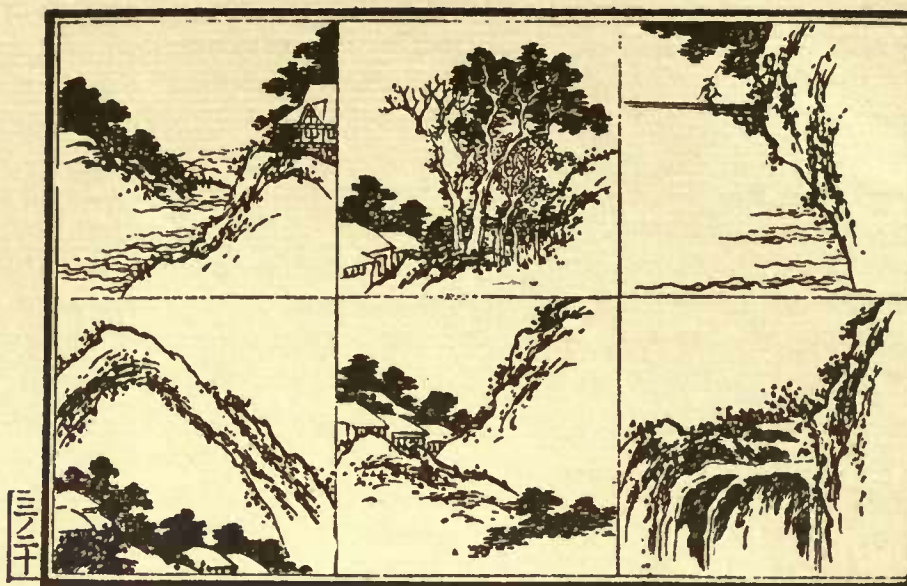
1. Copy these enlarged, with brush.
2. Select one, as a theme, and make many variations.
3. Originate new line-schemes in squares and circles.

# LINE IV.—COMPO- SITION IN SQUARES AND CIRCLES



Nº26

LINE  
IV.—COMPO-  
SITION IN  
SQUARES  
AND  
CIRCLES



No 27 Units for wood-block printing, stencilling and hand-coloring



# APPLICATIONS

1. Gingham, plaids, embroidery, stencil.
2. Panelling, window sashes, leading for glass, inlaid wood, mosaic, enamel on metal.
3. Incised lines in wood, clay or metal, low relief modelling.

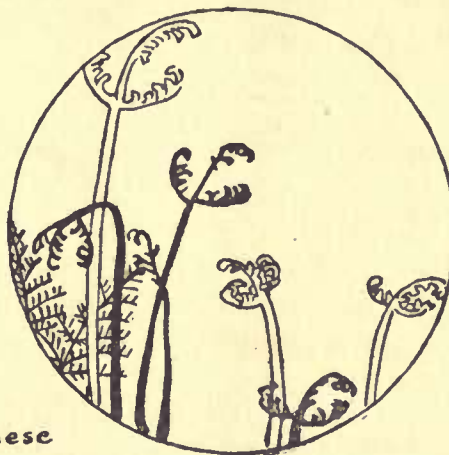
Study of the principle precedes application in all cases. It is true that the limi-

tations of material must be recognized in making designs for special purposes. The substance or surface for which the design is intended will itself suggest the handling; but material teaches us nothing about the finer relationships. First study the art of design; develop capacity by exercise of the inventive and appreciative faculties; then consider the applications in craft or profession.

LINE  
IV.—COMPO-  
SITION IN  
SQUARES  
AND  
CIRCLES



Nº 28



Japanese

# LINE

## V.—COMPOSITION IN RECTANGLES—VARIATION

**I**N the search for finer relations there must be every opportunity for choice; the better the choice, the finer the art. The square and circle allow choice only as to interior divisions, but the rectangle is capable of infinite variation in its boundary lines.

The scientific mind has sought, by analysis of many masterpieces, to discover a set of perfect proportions, and to reduce them to mathematical form, for example, 3:5, or 4:7.

The secret of spacing in Greek art has been looked for in the "golden mean", viz: height is to length as length is to the sum of height and length. Doubtless such formulæ were useful for ordinary work, but the finest things were certainly the product of feeling and trained judgment, not of mathematics. Art resists everything that interferes with free choice and personal decision; art knows no limits.

Poverty of ideas is no characteristic of the artist; his mind is ever striving to express itself in new ways.

The personal choice of proportions, tones and colors stamps the work with individuality. A master in art is always intensely individual, and what he does is an expression of his own peculiar choices.

The beauty of proportion in your rec-

tangle is measured by your feeling for fine relations, not by any formula whatever. No work has art-value unless it reflects the personality of its author. What everybody can do easily, or by rule, cannot be art.

The study of Variation tends to lead the mind away from the conventional and humdrum, toward original and individual expression. Variation has no place in academic courses of art teaching, but in composition it is a most important element.

The masters of music have shown the infinite possibilities of variation — the same theme appearing again and again with new beauty, different quality and complex accompaniment. Even so can lines, masses and colors be wrought into musical harmonies and endlessly varied. The Japanese color print exemplifies this, each copy of the same subject being varied in shade or hue or disposition of masses to suit the restless inventive energy of its author. In old Italian textiles the same pattern appears repeatedly, but varied in size, proportion, dark-and-light and color. In times when art is decadent, the designers and painters lack inventive power and merely imitate nature or the creations of others. Then comes Realism, conventionality, and the death of art.

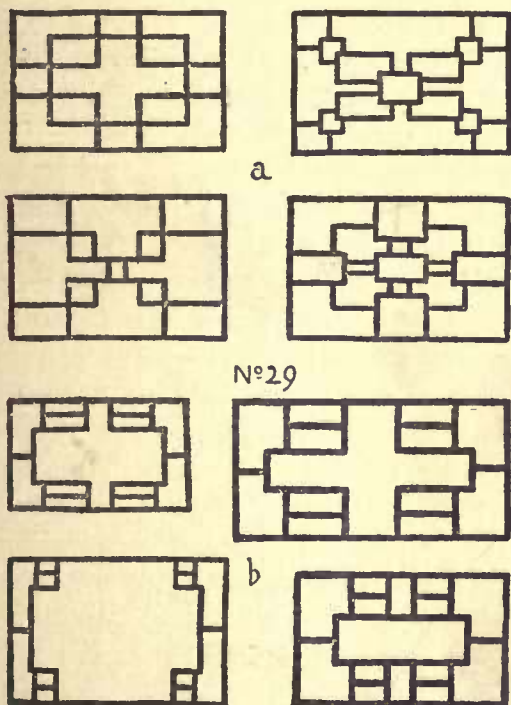


Some experience in choice of proportions and the cutting of rectangular spaces may be gained from the following

### EXERCISE

1. Design some simple theme in vertical and horizontal lines and arrange it in several rectangles of the same size, varying the spacing in each, No. 29a.
2. Compose a straight-line theme in several rectangles of different proportions, No. 29b.
3. Choose the best and trace with brush and ink.

In the first case there is variation of interior lines only; in the second all lines are changed. This exercise admits of great expansion, according to age of pupils and limits of time.



### EXAMPLES OF RECTANGULAR DESIGN.

Contact with the best works of art is an essential part of art education, for from them comes power and the stimulus to create. The student hears and reads much that passes for art criticism but is only talk about the subject of a picture, the derivation and meaning of a design, or the accuracy of a drawing. These minor points have their place in discussing the literary and scientific sides of a masterpiece; they relate to art only superficially, and give no key to the perception of fine quality.

The most important fact about a great creative work is that it is beautiful; and the best way to see this is to study the art-structure of it,—the way it is built up as Line, Notan, Color,—the principle of composition which it exemplifies. See what a master has done with the very problem you are trying to work out.

This method of approach will involve a new classification of the world's art, cutting across the historical, topical and geographical lines of development. The instructor in composition will illustrate each step with many examples differing as to time, locality, material and subject, but alike in art-structure.

Museum collections might be used for a series of progressive studies based upon composition; taking up one principle at a time and seeking illustrations in a group of wide range,—a picture, sculpture, architecture, Gothic carving, metal work, old textile, bit of pottery, Japanese print.

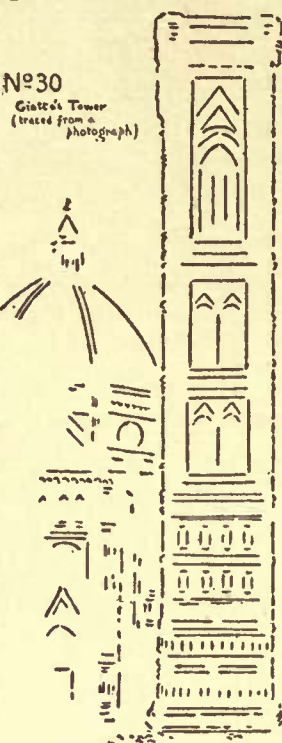
### LINE V.—COMPO- SITION IN RECTANGLES

LINE  
V.—COMPO-  
SITION IN  
RECTANGLES

The beauty of simple spacing is found in things great and small, from a cathedral tower to a cupboard shelf.

The campanile of the Duomo of Florence (No. 30) designed by that master of architecture and painting, Giotto, is a rectangular composition of exceeding beauty.

Its charm lies chiefly in its delicately harmonized proportions on a straight-line scheme. It is visual music in terms of line and space. The areas are largest at the top, growing gradually smaller in each of the stories downward. The graceful mouldings, the window tracery, the many colors of marble and porphyry are but enrichments of the splendid main lines.



The Ca' d'Oro of Venice (No. 31, A) presents this rectangular beauty in an entirely different way. First, a vertical line divides the façade into two unequal but balanced proportions; each of these is again divided by horizontal lines and by windows and balconies into smaller spaces, the whole making a perfect harmony—each part related to, and affected by every other part.

The tokonoma of a Japanese room (No. 31, B) is arranged in a similar rectangular scheme. A vertical line, as in the

Venetian palace façade, divides the whole space into two; one of these is divided again into recesses with shelves or sliding doors; the other is for pictures (kake-mono), not more than three of which are hung at a time. No. 31, C shows three of these sets of shelves. The Japanese publish books with hundreds of designs for this little recess. The fertility of invention combined with feeling for good spacing, even in such a simple bit of craft, is characteristic of the Japanese. Their design books, from which I have copied many examples for this volume, are very useful to the student of art.

Style, in furniture, is a matter of good spacing, rather than of period or person. The best designs are very simple,—finely balanced compositions of a few straight lines (No. 31, D).

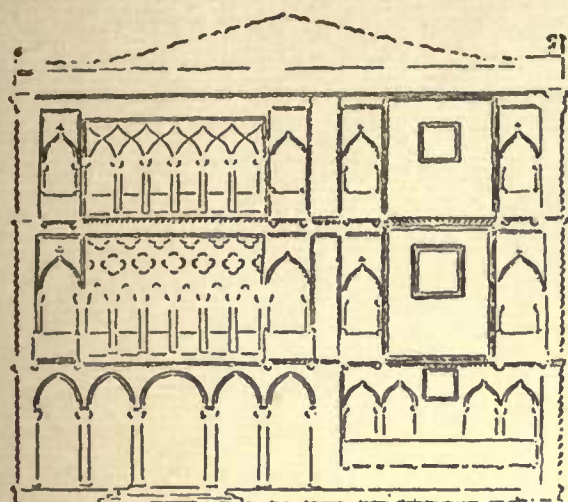
Book covers with their lettering and decorations, and book pages with or without illustrations are examples of space cutting,—good or commonplace according to the designer's feeling for line-beauty. In the early days of printing the two pages of an open book were considered together as a single rectangular space. Into this the type was to be set with the utmost care as to proportion and margin.

#### EXERCISE

The few examples given here show how varied are the applications of a single principle. The study of these will suggest a field for research. If possible the student should work from the objects themselves or from large photographs; and from the original Japanese design books. These

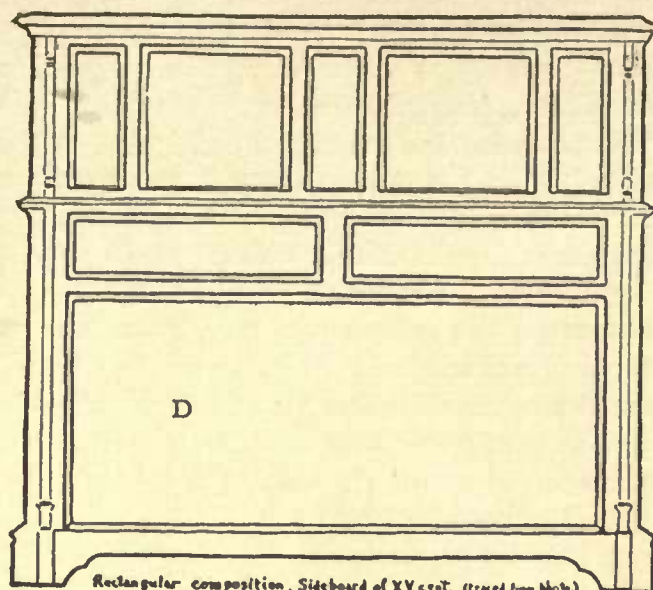


LINE  
V.—COMPO-  
SITION IN  
RECTANGLES

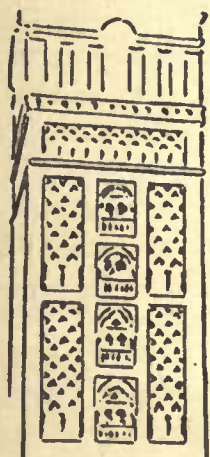


Venetian Palace facade — main lines—(traced)

A

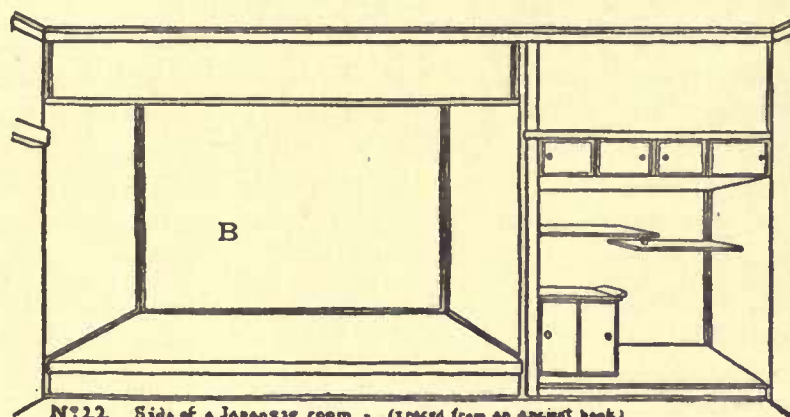


Rectangular composition, Sideboard of XV cent. (traced from photo)

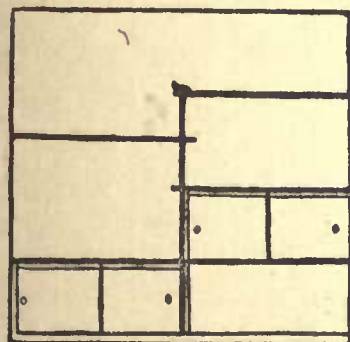


Part of the Tower of Seville  
(traced from a photograph)

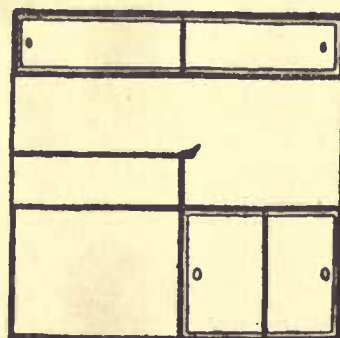
No. 31



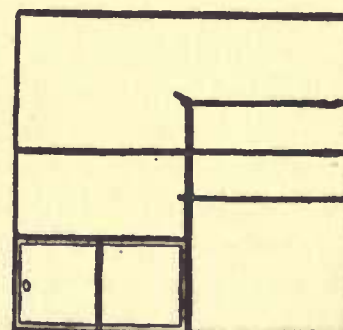
Nº 22. Side of a Japanese room - (traced from an ancient book)



C



41



LINE  
V.—COMPO-  
SITION IN  
RECTANGLES

tracings are given for purposes of comparison.

1. Copy the examples, without measuring. An attempt to copy brings the pupil's mind into contact with that of a superior, and lets him see how difficult it is to reach the master's perfection. Copying as a means of improving one's style is the opposite of copying as a substitute for original work.

2. After making the best possible copies, invent original variations of these themes,—keeping the same general plan but changing the sizes.

**COMPOSITION OF POTTERY FORMS.** Makers of modern commercial ware usually leave beauty of line out of account, thinking only of utility,—of the piece of pottery as a feeding-dish, or as a costly and showy object. The glaring white glaze, harsh colors and clumsy shapes of common table-ware must be endured until there is sufficient public appreciation to demand something better; yet even this is less offensive than the kind that pretends to be art,—bad in line and glittering with false decoration.

Pottery, like other craft-products, is truly useful when it represents the best workmanship, combined with feeling for shape, tone, texture and color,—in a word, fine art.

Such quality is found, to mention only a few cases, in some of the "peasant wares"; in the best Japanese pottery, ancient and modern; in Chinese, espec-

ially of the Sung period (A. D. 960-1280); in Moorish, Persian, Rhodian and Greek. When each maker tried to improve upon older models, and had the taste and inventive genius to do it, the art grew to supreme excellence; even fragments of such handicraft are now precious. The difference between the contours of a really great piece of pottery and an ordinary one may seem very slight, but in just this little difference lies the art.

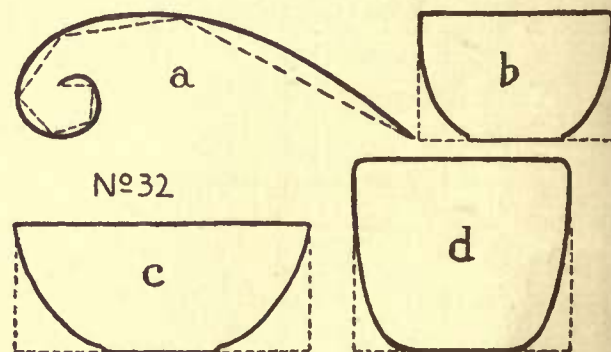
EXERCISE

One good way to stimulate invention in composing pottery shapes is to evolve them from rectangles. In the straight line there is strength; a curve is measured by a series of straight lines connected in rhythm. No. 32a. This principle is recognized in blocking out a freehand drawing,—a process often misunderstood and exaggerated.

Curved profiles are only variations of rectangular forms, for example the bowl in No. 32 b.

Change the height and a series of new shapes will result. As the top and bottom lines remain the same we have to compare the curved sides only.

Another effect (c) comes from varying





the width; and still another (d) by changing both height and width.

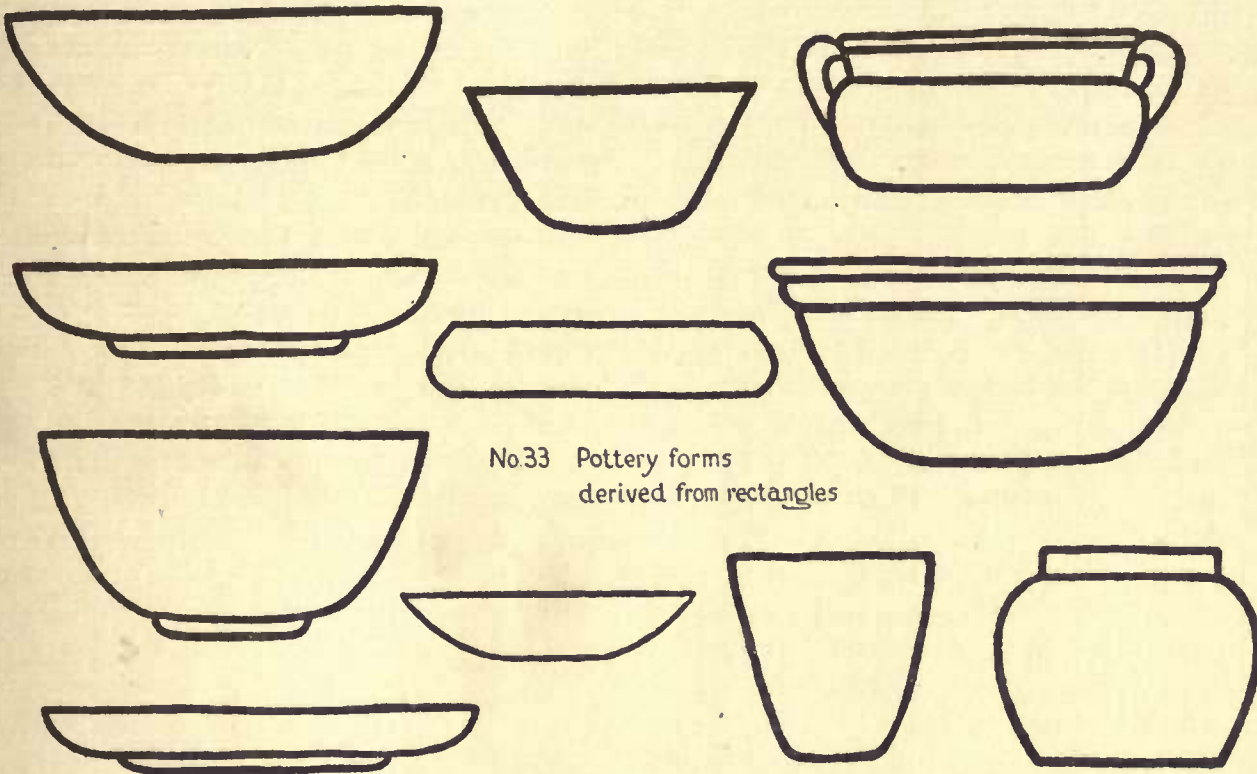
In No. 33 are students' drawings of pottery profiles evolved from rectangles.

For brushwork, in this exercise, it is well to indicate the lines of the rectangle in pale red, the pottery in black. Make many sketches, select the best profiles, improve them by tracing in ink, and compare with historic pieces.

Drawing from the finest examples of pottery, and making original variations of the forms, will aid in drawing from the cast or the nude, because of the intimate study of the character of curves.

FLOWERS and other forms as LINE-MOTIVES. The rectangular space may be subdivided, as was the square, by a simple line-motif,—flower, fruit, still life, animal or figure,—following some Principle of Composition. In chapter III, under Subordination, an exercise was suggested and illustrated; it could be taken up again at this point, with new subjects, for a study of Variation. As rectangular compositions will be found under Notan and Color, it is not necessary to consider them further here as pure line, except in the case of Landscape, to which a special chapter is given.

LINE  
V.—COMPO-  
SITION IN  
RECTANGLES



# LINE

## VI.—LANDSCAPE COMPOSITION

THE modern arbitrary division of Painting into Representative and Decorative has put composition into the background and brought forward nature-imitation as a substitute. The picture-painter is led to think of likeness to nature as to the most desirable quality for his work, and the designer talks of "conventionalizing"; both judging their art by a standard of Realism rather than of Beauty.

In the world's art epochs there was no such division. Every work of space-art was regarded as primarily an arrangement, with Beauty as its *raison d'être*. Even a portrait was first of all a composition, with the facts and the truth subordinate to the greater idea of æsthetic structure. Training in the fundamental principles of Composition gave the artists a wide field—they were at once architects, sculptors, decorators and picture-painters.

Following this thought of the oneness of art, we find that the picture, the plan, and the pattern are alike in the sense that each is a group of synthetically related spaces. Abstract design is, as it were, the primer of painting, in which principles of Composition appear in a clear and definite form. In the picture they are not so obvious, being found in complex interrelations and concealed under detail.

The designer and picture-painter start in the same way. Each has before him a blank space on which he sketches out the main lines of his composition. This may be called his Line-idea, and on it hinges the excellence of the whole, for no delicacy of tone, or harmony of color can remedy a bad proportion. A picture, then, may be said to be in its beginning actually a pattern of lines. Could the art student have this fact in view at the outset, it would save him much time and anxiety. Nature will not teach him composition. The sphinx is not more silent than she on this point. He must learn the secret as Giotto and della Francesca and Kanawoka and Turner learned it, by the study of art itself in the works of the masters, and by continual creative effort. If students could have a thorough training in the elements of their profession they would not fall into the error of supposing that such a universal idea as Beauty of Line could be compressed into a few cases like the "triangle," "bird's-wing," "line of beauty," or "scroll ornament," nor would they take these notions as a kind of receipt for composing the lines of pictures.

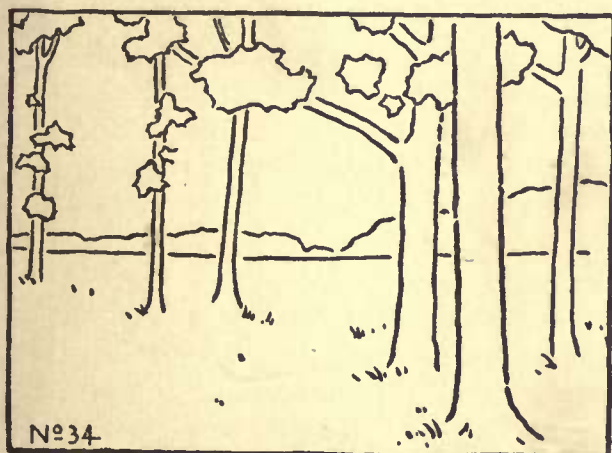
Insistence upon the placing of Composition above Representation must not be considered as any undervaluation of the latter. The art student must learn to



represent nature's forms, colors and effects; must know the properties of pigments and how to handle brushes and materials. He may have to study the sciences of perspective and anatomy. More or less of this knowledge and skill will be required in his career, but they are only helps to art, not substitutes for it, and I believe that if he begins with Composition, that is, with a study of art itself, he will acquire these naturally, as he feels the need of them.

Returning now to the thought that the picture and the abstract design are much alike in structure, let us see how some of the simple spacings may be illustrated by landscape.

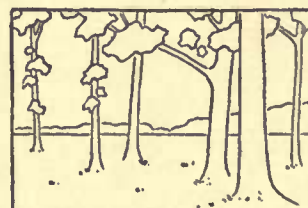
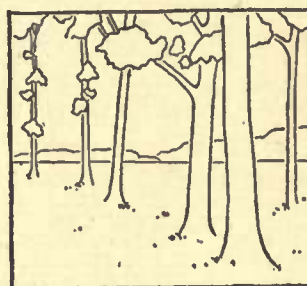
Looking out from a grove we notice that the trees, vertical straight lines, cut horizontal lines,—an arrangement in Opposition and Repetition making a pattern in rectangular spaces. Compare the gingham and landscape on page 22. This is a common effect in nature, to be translated into terms of art as suggested in the following exercise.



## EXERCISE

No. 34 is a landscape reduced to its main lines, all detail being omitted.

Make an enlarged copy of this, or design a similar one. Then, in the attempt to find the best proportion and the best way of setting the subject upon canvas or paper, arrange this in rectangles of varying shape, some nearly square, others tall, others long and narrow horizontally as in No. 35. To bring the whole landscape into all these will not, of course, be possible, but in each the essential lines must be retained.

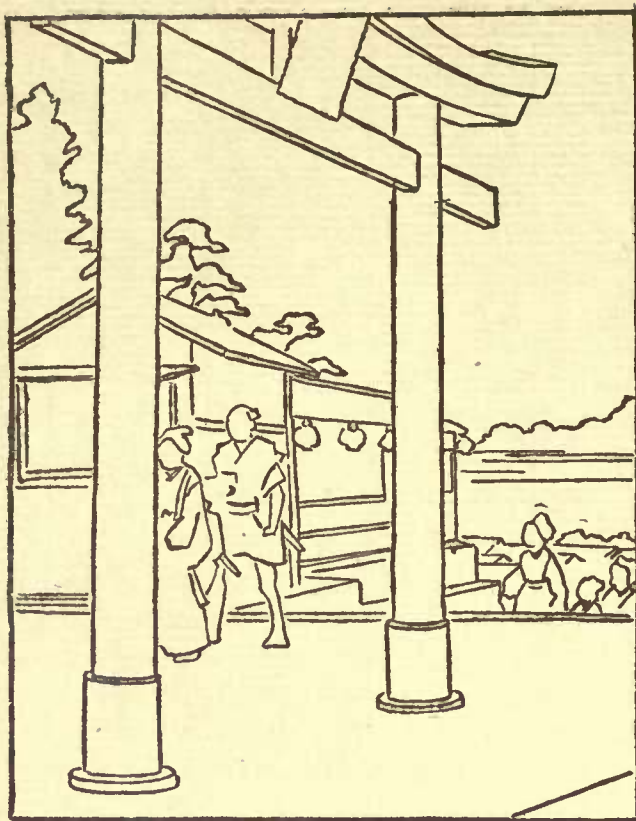


Draw in ink after preliminary studies with pencil or charcoal, correcting errors by tracing.

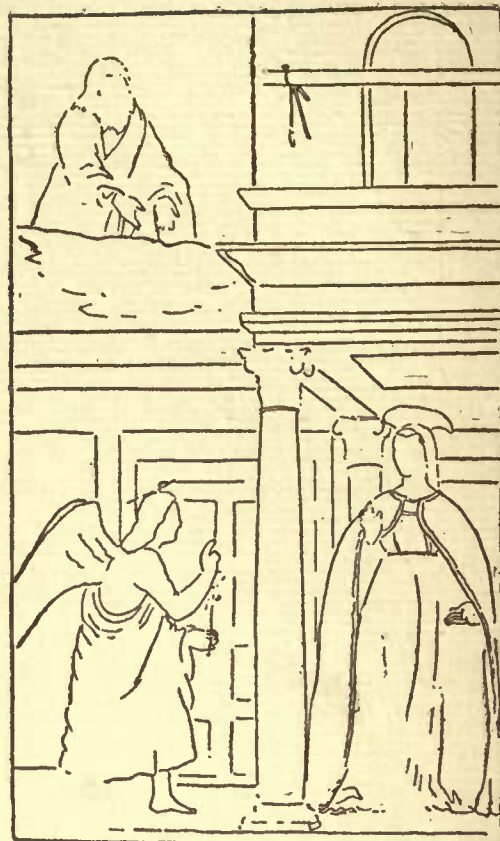
Then find in nature other similar subjects; sketch and vary in the same way.

LINE  
VI.—LAND-  
SCAPE COM-  
POSITION

LINE  
VI.—PICT-  
URES ON  
RECTANGU-  
LAR LINES



Hiroshige (traced from a colored print)

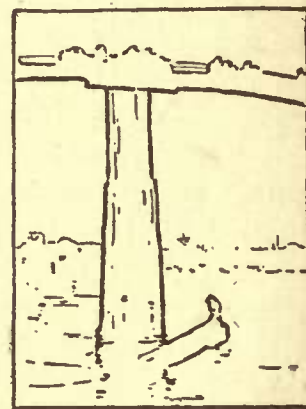


The Annunciation, Piero della Francesca, (tracing)

No. 36



Sketch of part of middle distance "L'Hiver" by Puvis de Chavannes



Sketch from a picture by Whistler



The art of landscape painting is a special subject, not to be treated at length here, but I believe that the true way to approach it is through these or similar exercises.

First study the art, then apply it, whether to landscape or any other kind of expression.

## PICTURES COMPOSED ON RECTANGULAR LINES.

Great architects and designers were not the only ones to use this simple line-idea; the masters of pictorial art have based upon it some of their best work; (opposite page).

These tracings from a variety of compositions, old and new (No. 36), show that this combination was chosen either to express certain qualities and emotions, —majesty, solemnity, peace, repose, (Puvis de Chavannes)—or because such a space division was suited to tone-effects (Whistler's Battersea Bridge), or to color schemes (Hiroshige). These should be copied exactly in pencil, then drawn enlarged. Find other examples in museums, illustrated books, or photographs, and draw in the same way.

The student must, however, be warned against mistaking a mere geometric combination of lines for an æsthetic combination. There is no special virtue in a rectangular scheme or any other in itself; it is the treatment of it that makes it art or not art. Many a commonplace architect has designed a tower similar to Giotto's, and many a dauber of oil paint

has constructed a wood interior on a line-plan resembling that of Puvis. So the mere doing of the work recommended here will be of little value if the only thought is to get over the ground, or if the mind is intent upon names rather than principles. The doing of it well, with an artistic purpose in mind, is the true way to develop the creative faculties.

## LANDSCAPE ARRANGEMENT,— VARIATION.

Leaving now the rectangular scheme, take any landscape that has good elements, reduce it to a few main lines and strive to present it in the most beautiful way—for example one from No. 61, or one drawn by the instructor, or even a tracing from a photograph. Remember that the aim is not to represent a place, nor to get good drawing now; put those thoughts out of the mind and try only to cut a space finely by landscape shapes; the various lines in your subject combine to enclose spaces, and the art in your composition will lie in placing these spaces in good relations to each other. Here must come in the personal influence of the instructor, which is, after all, the very core of all art teaching. He can bring the pupils up to the height of his own appreciation, and perhaps no farther. The best of systems is valueless without this personal artistic guidance.

At this stage of landscape composition, the idea of Grouping (Subordination) can

LINE  
VI.—LAND-  
SCAPE COM-  
POSITION

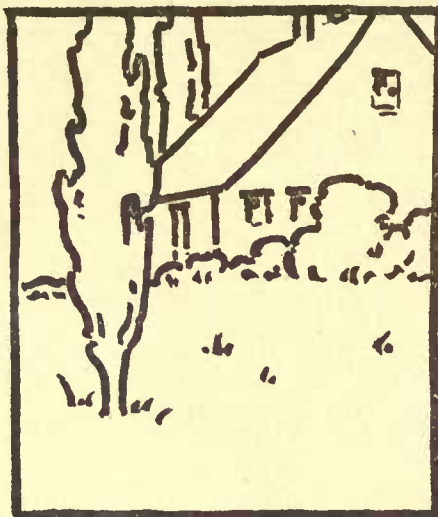
be brought in, as a help in arranging sizes and shapes. There is a certain beauty in a contrast of large and small. It is the opposite of Monotony. For instance, compare a street where there is variety in the sizes of buildings and trees, with another of rows of dull ugly blocks. Ranges of hills, spires and pinnacles, clumps of large and small trees, clusters of haystacks, illustrate this idea in landscape.

EXERCISE

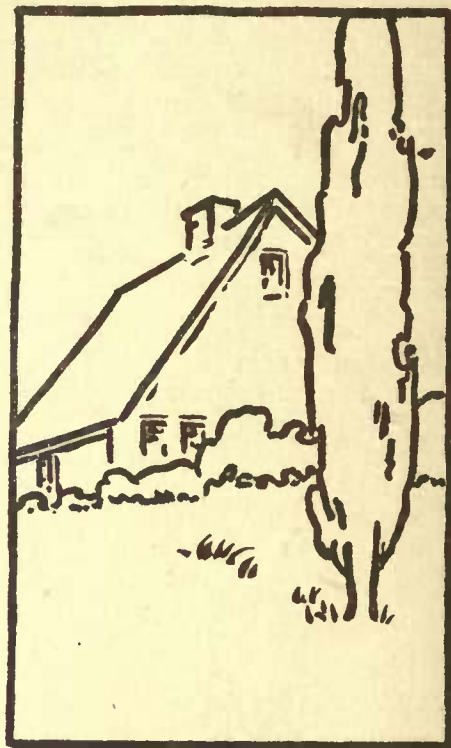
To discover the best arrangement, and to get the utmost experience in line and

space composition, the landscape should be set into several boundaries of differing proportions, as in Chapter V, and as shown in the examples, keeping the essential lines of the subject, but varying them to fit the boundary. For instance, a tree may be made taller in a high vertical space than in a low horizontal space, (No. 37 below).

After working out this exercise the pupil may draw a landscape from nature and treat it in the same way. Let him rigorously exclude detail, drawing only the outlines of objects.



No.37 A Landscape in three proportions





# LINE

## VII.—COMPOSITION IN REPRESENTATION

**I**N academic art teaching representation is the starting-point. This means that one must first of all "learn to draw", as power in art is thought to be based upon ability to represent accurately and truthfully either nature's facts or historic ornament. I use the word "academic" to define all teaching founded upon representation. The theory may be summed up in two points:

1. Store the mind with facts, to be used in creative work later on.
2. Technique is best acquired by the practice of object and figure drawing.

The first is a purely scientific process, a gathering up of data, with no thought of harmony or originality; hence drawing with such an end in view is not strictly art-work. Nor does the artist need to lumber up his mind; nature is his storehouse of facts. The second point has more reason, but when the aim is for mere accuracy, only a limited amount of skill is acquired and that often hardly more than nice workmanship—not art-skill. The powerful drawing of the masters is largely derived from other masters, not from copying nature. It is an interpretation with the purpose of attaining a high standard. Such drawing aims to express character and quality in an individual way—a thing quite different from fact-statement.

Nature-drawing, wrongly placed and misunderstood, has become a fetich in our modern teaching. Our art critics talk of "just" rendering, "true" values, "conscientious" painting and the like; terms that belong to morals, not art, and could not be applied to Architecture, Music or Poetry. These stock-phrases are a part of that tradition of the elders—that eighteenth century academism still lingering. Representation has but a small place in the art of the world. This is roughly shown in the two lists below:

### NON-REPRESENTATIVE

Architecture — Furniture.  
Wood carving.  
Pottery.  
Modelling,— mouldings and pattern.  
Metal work.  
Inlay,— mosaic, etc.  
Geometric design, including  
Egyptian, Peruvian and Savage.  
Ginghams, plaids and much textile  
pattern.  
Mohammedan art (one great division)  
etc.

### REPRESENTATIVE

Painting and Sculpture of  
Figures, Portraits, Animals,  
Flowers, Still Life,  
Landscape Painting.

LINE  
VII.—COMPO-  
SITION IN  
REPRESENTATION

The nature-imitators hold that accurate representation is a virtue of highest order and to be attained in the beginning. It is undeniably serviceable, but to start with it is to begin at the wrong end. It is not the province of the landscape painter, for example, to represent so much topography, but to express an emotion; and this he must do by art. His art will be manifest in his composition; in his placing of his trees, hills and houses in synthetic relations to each other and to the space-boundary. Here is the strength of George Inness; to this he gave his chief effort. He omits detail, and rarely does more than indicate forms.

This relation among the parts of a composition is what we call Beauty, and it begins to exist with the first few lines drawn. Even the student may express a little of it as he feels it, and the attempt to embody it in lines on paper will surely lead to a desire to know more fully the character and shapes of things, to seek a knowledge of drawing with enthusiasm and pleasure.

These things are said, not against nature-drawing—I should advise more rather than less—but against putting it in the wrong place.

The main difference between Academic and Structural (Analytic and Synthetic) is not in the things done, but in the reason for doing them, and the time for them. All processes are good in their proper places.

The relation of representative drawing to a synthetic scheme is this: One uses the facts of nature to express an idea or

emotion. The figures, animals, flowers or objects are chosen for the sake of presenting some great historical or religious thought as in della Francesca's Annunciation (No. 36), for decoration of an architectural space (Reims capital, No. 38), because the landscape has special beauty as in Hiroshige's print (No. 8), or because the objects have form and color suggesting a high order of harmony, as in Chinese and Japanese paintings of flowers, or Leonardo's drawings of insects and reptiles.

Another reason for drawing is found in the use of the shapes or hues in design. Desire to express an idea awakens interest in the means. Observation is keen, close application is an easy task, every sense is alert to accomplish the undertaking. This is quite different from drawing anything and everything for practice only.

Mere accuracy has no art-value whatever. Some of the most pathetic things in the world are the pictures or statues whose only virtue is accuracy. The bare truth may be a deadly commonplace.

Pupils should look for character; that includes all truth and all beauty. It leads one to seek for the best handling and to value power in expression above success in drawing.

Composition is the greatest aid to representation because it cultivates judgment as to relations of space and mass. Composition does not invite departure from nature's truth, or encourage inaccuracies of any kind—it helps one to draw in a finer way.



LINE  
VII.—COMPO  
SITION IN  
REPRESENT  
TATION



GIORGIONE Venetian School Notan plan

Oil on canvas

No 38



MICHELANGELO Pen and Brush drawing Rhythm of Line

Chalk and wash



KANO GYOKURAKU Japanese XVcent

Ink on silk

Rhythm of LINE



REIMS Cathedral capital Represents a space

Black and white photo

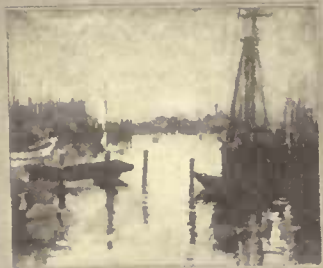
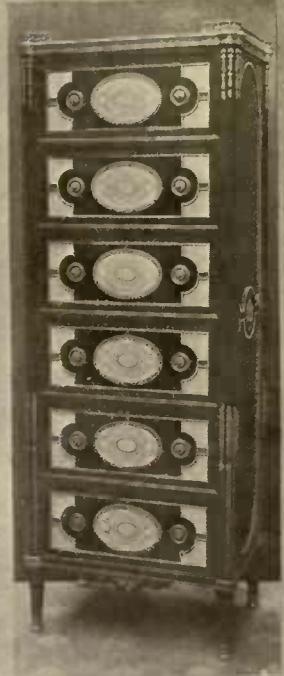
NOTAN  
VIII.  
DARK-AND-  
LIGHT HAR-  
MONIES  
FROM THE  
MASTERS



EGIA



No.39



GOVERNORS



Cotha



Baptistry, Florence, part of pavement



# NOTAN

## VIII.—HARMONY-BUILDING WITH DARK-AND-LIGHT

**A**S there is no one word in English to express the idea contained in the phrase "dark-and-light," I have adopted the Japanese word "notan" (dark, light). It seems fitting that we should borrow this art-term from a people who have revealed to us so much of this kind of beauty. "Chiaroscuro" has a similar but more limited meaning. Still narrower are the ordinary studio terms "light-and-shade," "shading," "spotting," "effect" that convey little idea of special harmony-building, but refer usually to representation.

Notan, while including all that these words connote, has a fuller meaning as a name for a great universal manifestation of beauty.

Darks and lights in harmonic relations—this is Notan the second structural element of space-art; p. 7.

The Orientals rarely represent shadows; they seem to regard them as of slight interest—mere fleeting effects or accidents. They prefer to model by line rather than by shading. They recognize Notan as a vital and distinct element of the art of painting.

The Buddhist priest-painters of the Zen sect discarded color, and for ages painted in ink, so mastering tone-relations as to attract the admiration and profoundly influence the art of the western world.

Our etching and book illustration have long felt the effect of contact with Japanese classic painting, though the influence came indirectly through the Ukiyoe color prints and books.

Such names as Kakei, Chinese of the Sung dynasty (p. 96), Soga Shubun, the Chinese who founded a school in Japan in the fifteenth century (p. 17), Sesshu, one of the greatest painters of all time (p. 97), Sotan, Soami, Motonobu, Tanyu are now placed with Titian, Giorgione (p. 51), Rembrandt, Turner, Corot and Whistler. The works of Oriental masters who felt the power and mystery of Notan are becoming known through the reproductions that the Japanese are publishing, and through precious examples in our own museums and collections. This is one of the forces tending to uproot our traditional scientific art teaching which does not recognize Dark-and-Light as worthy of special attention.

Appreciation of Notan and power to create with it can be gained, as in the case of Line, by definite study through progressive exercises. At the outset a fundamental fact must be understood, that synthetically related masses of dark and light convey an impression of beauty entirely independent of meaning,—for example, geometric patterns or blotty ink sketches by Dutch and Japanese.

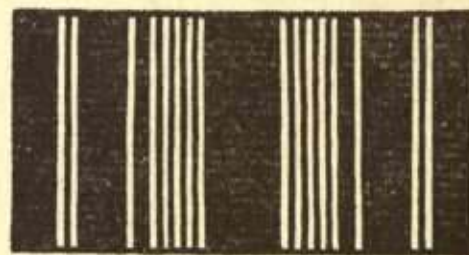
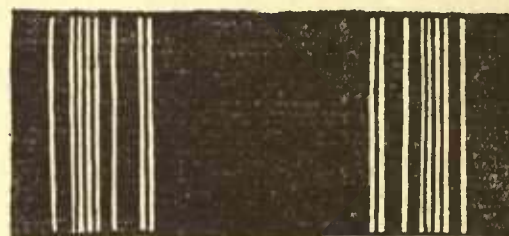
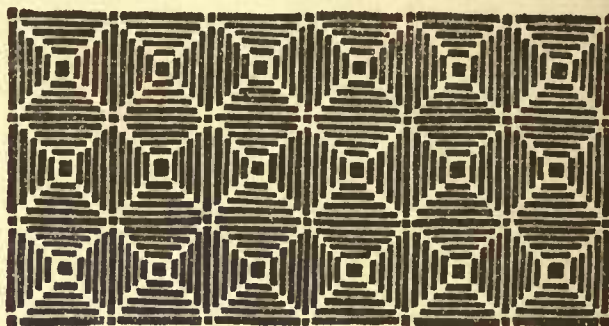
When this occurs accidentally in nature,—say a grove of dark trees on a light hillside, or a pile of buildings against the morning sky,—we at once feel the charm and call the effect “picturesque.” The quality which makes the natural scene a good subject for a picture is like musical harmony. It is the “visual music” that the Japanese so love in the rough ink paintings of their masters where there is but a hint of facts (pp. 97, 99)—a classic style which is the outward expression of a fine appreciation, and whose origin and practice are admirably set forth in “The Book of Tea.” Recognition of Notan as an individual element will simplify the difficulties of tone-composition and open the way for growth in power

**NOTAN OF LINE.** As long as the lines of a design are kept of uniform width, the beauty is limited to proportion of areas and quality of touch, but widen some of the lines, and at once appears a new grace, Dark-and-Light. The textile designers who are restricted to straight lines, have recourse to this principle. They widen lines, vary their depth of tone, glorify them with color, and show that what seems a narrow field is really one of wide range.

#### EXERCISE

Choose some of the previous geometric line patterns, and widen certain of the lines, as illustrated in the plate. Incidentally this will give good brush practice, as the lines are to be drawn at one stroke. Push the point of the brush down to the

required width, then draw the line. Try a large number of arrangements, set them up in a row and pick out the best. In choosing and criticising, remember that every part of a work of art has something to say. If one part is made so prominent that the others have no reason for being there, the art is gone. So in this case; if one line asserts itself to the detriment of the others, there is discord. There may be many or few lines, but each must have its part in the whole. In a word, wholeness is essential to beauty; it distinguishes Music from Noise.



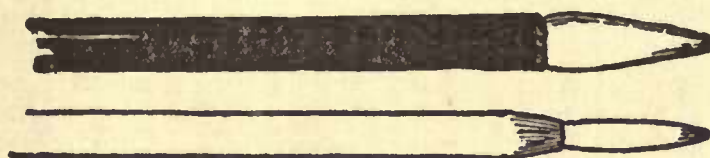
Nº40 Notan of Line



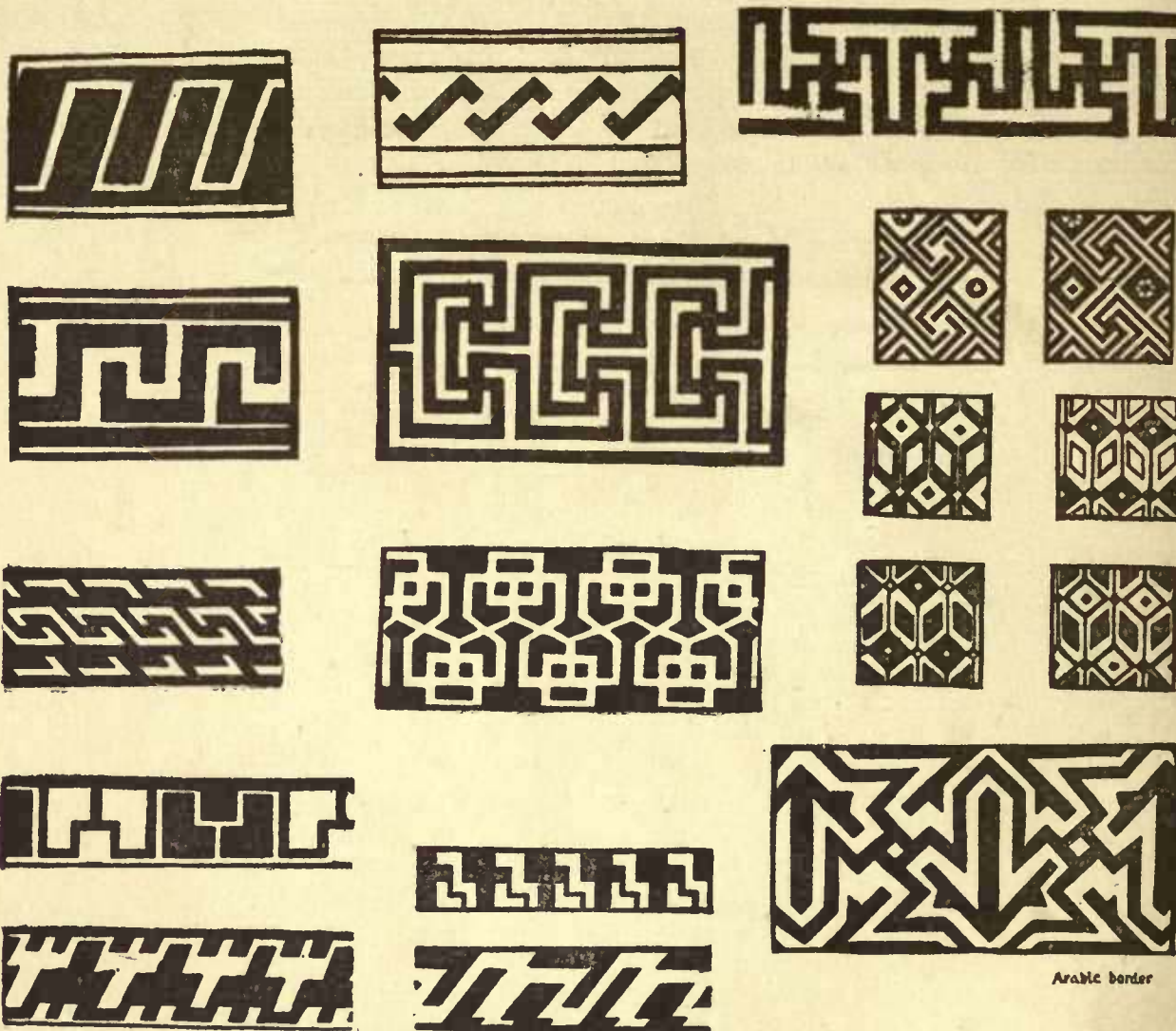
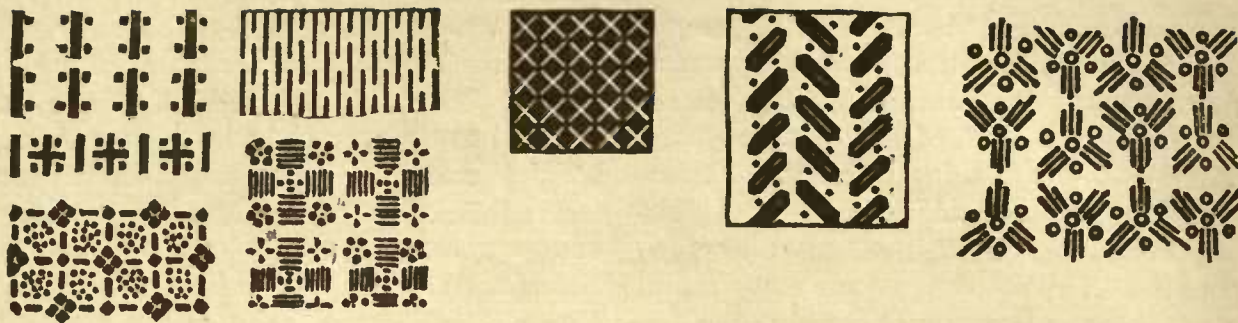
**LETTERING.** When forming part of an artistic composition, in books, posters, manuscripts, illuminations, etc., lettering should be classed as Notan of Line. Obviously the spacing of masses of letters has first consideration, and is usually a simple problem in rectangular composition. The effect is a tone or group of tones more or less complicated according to sizes of letters, thickness of their lines and width of spaces between and around them. I have found the reed-pen and the Japanese brush (clipped) the best implements for students' lettering (see be-

low). Having suggested that Lettering, including Printing, as an art, is a problem in composition of line and notan, it seems hardly worth while to introduce special exercises here. Johnston has treated this subject exhaustively; the reader is referred to his book "Writing, Illuminating and Lettering," to Walter Crane's and other good books on lettering. Compare fine printing, old and new, Japanese, Chinese and Arabic writing, and ancient manuscripts and inscriptions — Egyptian, Greek, and Mediæval.

NOTAN  
VIII



Japanese brushes clipped for lettering No 41



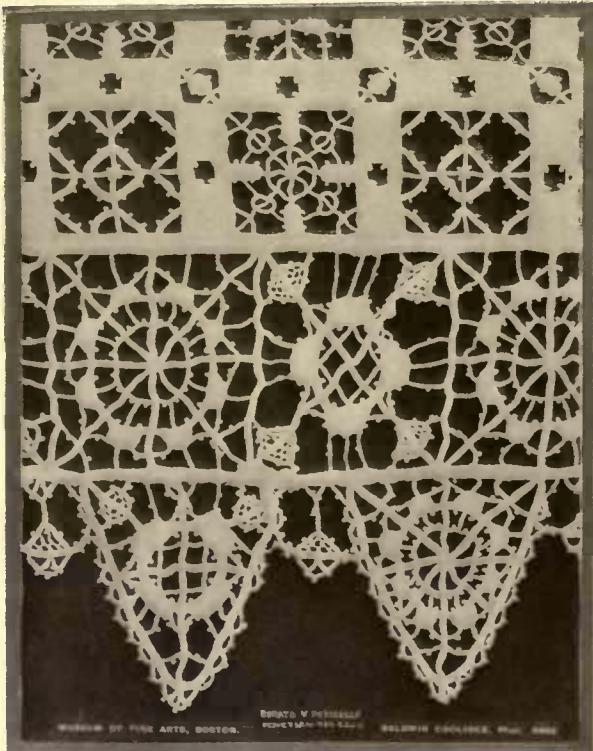
**Repetition, p. 24, and variation in two values, p. 67**





Landscape compositions by HOKUSAI, three values, pp. 76, 82, 114

NOTAN  
IX.  
TWOVALUES  
HISTORIC  
EXAMPLES



VENE TIAN Lace



No.42 METAL WORK XII and XIII cent Cluny Museum, France



COPTIC TEXTILE MFA Boston



GREEK VASE Metropolitan Museum, New York



# NOTAN

## IX.—TWO VALUES—VARIATIONS—DESIGN

**D**ARK-AND-LIGHT has not been considered in school curricula, except in its limited application to representation. The study of "light and shade" has for its aim, not the creation of a beautiful idea in terms of contrasting masses of light and dark, but merely the accurate rendering of certain facts of nature,—hence is a scientific rather than an artistic exercise. The pupil who begins in this way will be embarrassed in advanced work by lack of experience in arranging and differentiating tones. Worse than that, it tends to cut him off from the appreciation of one whole class of great works of art. As in the case of Line, so again in this is manifest the narrowness and weakness of the scheme of nature-imitating as a foundation for art education. The Realistic standard always tends to the decay of art.

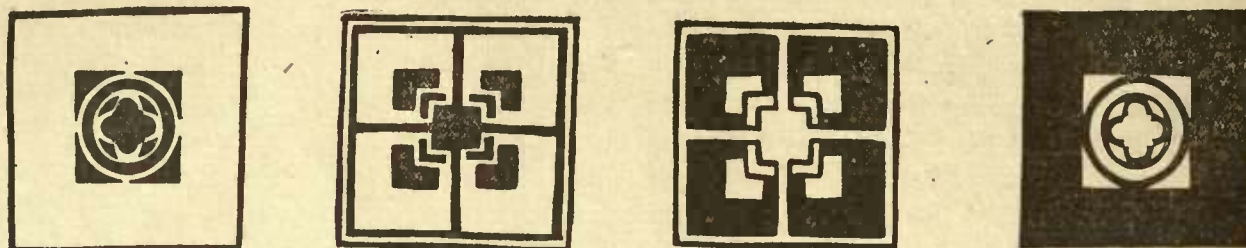
The student in an academic school, feeling the necessity for a knowledge of Dark-and-Light when he begins to make original compositions, has usually but one resource, that of sketching the "spotting" as he calls it, of good designs and pictures—an excellent practice if followed intelligently. His difficulties may be overcome (1) by seeing that Notan is an element distinct from Line or Color; (2) by attempting its mastery in progressive stages leading to appreciation.

### METHOD OF STUDY

Line melts into Tone through the clustering of many lines. Direct study of tone-intervals begins with composition in two values—the simplest form of Notan. There may be several starting-points; one might begin by blotting ink or charcoal upon paper, by copying the darks and lights from photographs of masterpieces, or by making scales. Experience has shown that the straight-line design and the flat black ink wash are most satisfactory for earlier exercises in two values. Instead of black and white, or black and gray, one might use two grays of different values, or two values of one color (say light blue and dark blue) according to need.

The aim being to understand Notan as something by which harmony may be created, it is best to avoid Representation at first. Notan must not be confounded with Light and Shade, Modeling or anything that refers to imitation of natural objects.

The beginner may imagine that not much can be done with flat black against flat white, but let him examine the decorative design of the world. He will find the black and white check and patterns derived from it, in old velvets of Japan, in the woven and printed textiles of all nations, in marble floors, inlaid boxes and archi-



Nº43





tectural ornament. The use of these two simple tones is as universal as Art itself. They appear in the black vine on the white marble floor of the Church of the Miracoli at Venice; on the wall of the Arabian Mosque, and the frieze of the Chinese temple. They have come into favor on book covers and page borders. Aubrey Beardsley went scarcely beyond them. R. Anning Bell and other artists have boldly carried them into pictorial work in the illustration of children's books.

These facts will show the beginner that no terms are too simple for artistic genius to use. Moreover a limited field often stimulates to greater inventive activity.

#### EXERCISE

Choose a simple line-design fine in proportion, and add to it this new kind of beauty,—as much of it as can be expressed by the extremes of Notan, black against white. It is apparent that we cannot reduce Dark-and-Light to simpler terms than these two values.

The principle of Variation comes into this exercise with special force, for each line-design admits of several Notan arrangements. The student should be given at first a subject with few lines. Let him use one of his own (chapter V), or draw one from the instructor's sketch, but the essential point is to have his design as good as possible in space-proportion before adding the ink.

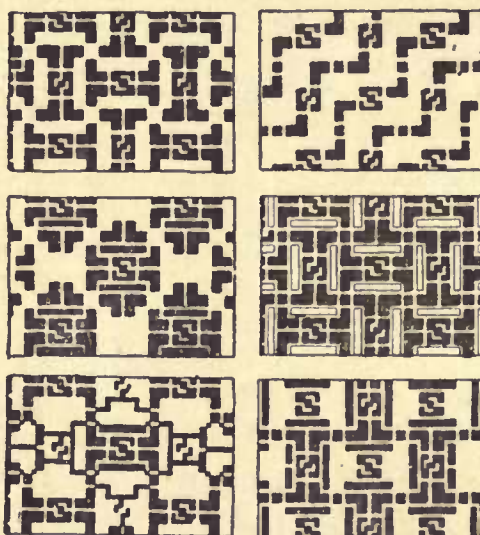
Make several tracings, then darken certain spaces with black. A round Japa-

nese brush, short and thick, is best for this work. Nos. 43 and 44.

Pupils should be warned against mistaking mere inventive action for art. The teacher must guide the young mind to perceive the difference between creating beautiful patterns, and mere fantastic play.

Those gifted with little æsthetic perception may go far astray in following the two-tone idea. It is very easy and somewhat fascinating to darken parts of designs with black ink. The late poster craze showed to what depth of vulgarity this can be carried. The pupil must be taught that all two-tone arrangements are not fine, and that the very purpose of this exercise is so to develop his appreciation that he may be able to tell the difference between the good, the commonplace, and the ugly. His only guides must be his own innate taste, and his instructor's experience.

NOTAN  
IX



No 44





Japanese design for "ramma" (frieze) Fret-saw work

## FLOWER COMPOSITIONS TWO VALUES

Flowers, having great variety of line and proportion, are valuable, as well as convenient subjects for elementary composition. Their forms and colors have furnished themes for painters and sculptors since the beginning of Art, and the treatment has ranged from abstractions to extreme realism; from refinements of lotus-derived friezes to poppy and rose wall papers of the present time. In the exercise here suggested, there is no intention of making a design to apply to anything as decoration, hence there need be no question as to the amount of nature's truth to be introduced. The flower may be rendered realistically, as in some Japanese design, or reduced to an abstraction as in the Greek, without in the least affecting the purpose in view, namely, the setting of floral lines into a space in a fine way—forming a line-scheme on which may be played many notan-variations.

It is essential that the space should be cut by the main lines. (Subordination,

page 23.) A small spray in the middle of a big oblong, or disconnected groups of flowers, cannot be called compositions; all the lines and areas must be related one to another by connections and placings, so as to form a beautiful whole. Not a picture of a flower is sought,—that can be left to the botanist—but rather an irregular pattern of lines and spaces, something far beyond the mere drawing of a flower from nature, and laying an oblong over it, or vice versa.

### EXERCISE

The instructor chooses one of the best flower compositions done under Line, or draws a flower in large firm outlines on the blackboard, avoiding confusing detail, and giving the character as simply as possible. The pupil first copies the instructor's drawing, then he decides upon the shape into which to compose this subject—a square or rectangle will be best for the beginner. He makes several trial arrangements roughly, with pencil or charcoal. Having chosen the best of these, he improves and refines them, first on his trial paper, and later by tracing with brush and ink on thin Japanese



paper. Effort must be concentrated on the arrangement, not on botanical correctness.

Many line compositions can be derived from one flower subject, but each of these can in turn be made the source of a great variety of designs by carrying the exercise farther, into the field of Dark-and-Light. Paint certain of the areas black, and at once a whole new series suggests itself, from a single line design. To the beauty of the line is added the beauty of opposing and intermingling masses of black and white; see below and p. 64.

In this part of the exercise the arrangement of shapes of light with shapes of

dark, occupies the attention, rather than shading, or the rendering of shadows. Hence the flowers and leaves and stems, or parts of them, may be black or white, according to the feeling of the student. Let him choose out of his several drawings those which he considers best. The instructor can then criticise, pointing out the best and the worst, and explaining why they are so. A mere aimless or mechanical blackening of paper, without effort to arrange, will result in nothing of importance.

The examples show the variety of effects produced by flowers of different shapes, and the beauty resulting from schemes of Dark-and-Light in two values.



Nº45



NOTAN  
IX



Japanese



Japanese



Japanese



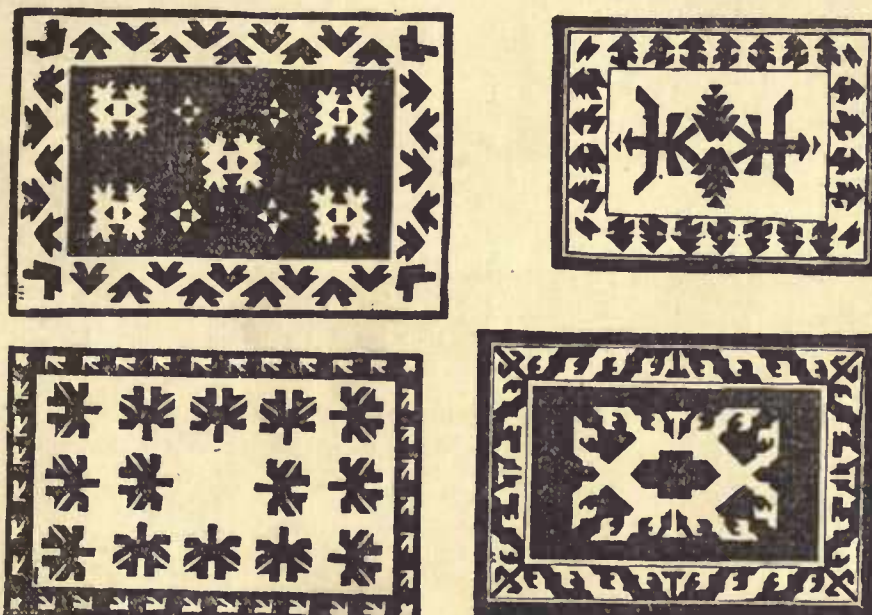
Flower compositions, p. 62.







Notan variations on lines of fine old textiles, see p. 67



Rug designs in two values, see p. 67





From Abruzzi blue towel



From Italian Woolen XVI cent.



Coptic

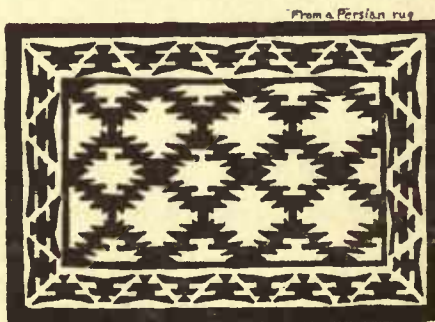
No.46



From Silk Brocade, Italian XVII cent.

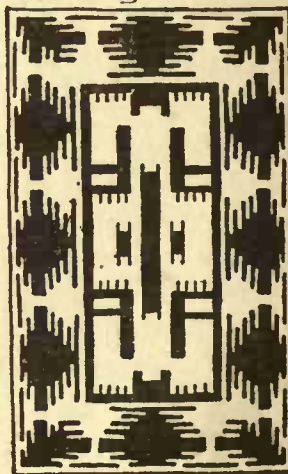


Japanese, Block print.



From a Persian rug

From a Kilim rug





## TEXTILE PATTERNS AND RUGS TWO VALUES

A line-scheme underlies every notan composition, and a notan-scheme underlies every color composition. The three elements have the closest relation one to another. For purposes of study, however, it is necessary to isolate each element, and even the separate principles of each.

In the present instance, Notan can be separated from Line by taking a line-design of acknowledged excellence and making many Notan variations of it; being sure of beauty of line, the only problem is to create beauty of tone.

As this brings in historic art, let me note that the works of the past are best used, in teaching, as illustrations of composition, (p. 40).

While the knowledge of a "style" may have a commercial value, it has no art-value unless the designer can make original and fine variations of it, not imitations.

The first essential is to appreciate the quality of historic examples, hence the student should work from the objects themselves, from photographic copies, from tracings, or from casts. The commonplace lithographic plates and rude wood cuts in some books of design are useless for our purpose. They give no hint of the original. If the actual painting on an Egyptian mummy case is compared with a page of one of these books, the poor quality of the latter is instantly apparent. Chinese and Japanese "orna-

ment" in most of such books is of a flamboyant and decadent sort.

The facsimile copies of Greek vases usually belong in this same category

NOTAN  
IX

### EXERCISE

Choose a textile of the best period, say Italian of the XVth or XVIth century; copy or trace the line and play upon this several notan-schemes of two values. You will at once discover how superb the spacing is in these designs, but your main thought is the creation of new dark-and-light ideas upon the fine old pattern; p. 65.

The Oriental rug affords an excellent line-scheme for practice in notan. As composition it is a combination of two principles Subordination and Repetition. Copying a part or the whole of some good rug—in line and color—is the best way to become acquainted with the spacing, motives and quality. Then design a rug with border and centre, the shapes to be pure inventions or symbols. Border and centre must differ, and there are many ways of doing this even in two values, for instance:

Border: Black figures on white ground.

Centre: White figures on black ground.

Border: White figures on black ground.

Centre: Black figures on white ground.

Border: Small figures.

Centre: One large figure.

The illustrations, pp. 65, 66, give some idea of the possibilities of tone-composition in textiles and rugs. The exercise points to one good way of using museum collections and art books.

NOTAN  
X



Nº 47





# NOTAN

## X.—TWO VALUES—LANDSCAPE AND PICTURES

**L**ANDSCAPE is a good subject for notan-composition, to be treated at first as a design, afterward as a picture. Its irregular spacings contrast well with the symmetries of pattern, and when tones are played over them the effects are new and strange, stimulating to further research into the mysteries of tone. Such an exercise leads to the appreciation of landscape pictures, and is an introduction to pencil and charcoal sketching from nature, to monotypes and etching.

Notan in landscape, a harmony of tone-relations, must not be mistaken for light-and-shadow which is only one effect or accident. Like all other facts of external nature, light-and-shadow must be expressed in art-form. The student under the spell of the academic dictum "Paint what you see and as you see it" feels that he must put down every accidental shadow "just as it is in nature" or be false to himself and false to art. He finds later that accurate record is good and right in studies or sketches but may be wrong in a picture or illustration. No accidents enter into pictures, but every line, light, and dark must be part of a deliberate design.

Light-and-shade is a term referring to modelling or imitation of solidity; the study of it by drawing white casts and

still life tends to put attention upon facts rather than upon experience in structure. It does not help one to appreciate tone-values in pictures. Such drawing is worth while as pure representation and the discipline of it contributes to mastery of technique, but it is absurd to prescribe this or life drawing as a training for the landscape painter. Its influence is only indirect, for modeling is of secondary importance in Painting, the art of two dimensions.

When a painter works for roundness and solidity he enters the province of his brother the sculptor. In typical paintings, like Giotto's frescoes at Assisi, Masaccio's "Tribute Money," Piero della Francesca's work at Arezzo, the compositions of the Vivarini, the Bellini and Titian, and even the Strozzi portrait by Raphael, the modelling is subordinate to the greater elements of proportion and dark-and-light.

In a mural painting extreme roundness is a fatal defect, as illustrated in the Pantheon at Paris, where Puvis de Chavannes and his contemporaries have put pictorial designs upon the walls. Puvis created a mosaic of colored spaces intended to beautify the wall; charm of color and tone, poetry and illusion of landscape possess the beholder long before he even thinks of the special subjects. The

other painters made their figures stand out in solid modelling, replacing composition with sculpturesque realities. From these you turn away unsatisfied.

I am not arguing for the entire omission of shadows and modelling—they have their place—but am insisting that flat relations of tone and color are of first importance; they are the structural frame, while gradation and shading are the finish. To begin with rounding up forms in light and shade, especially in landscape, is to reverse the natural order, ignore structure, and confuse the mind.

The academic system has adopted the word “decorate” for flat tone relations and non-sculpturesque effects, as if everything not standing out in full relief must belong to decoration. This use of the word is misleading to the student; we do not speak of music and poetry as “decorative”. Lines, tones and colors may be used to decorate something, but they may be simply beautiful in themselves, in which case they are no more decorative than music. This word should be dropped from the art vocabulary.

#### EXERCISE

Choose a landscape with a variety of large and small spaces.

1. Compose this within a border (see Chap. VI.) and when the spacing is good trace with the brush on several sheets of Japanese paper.

Next try the effect of painting certain spaces black, or dark gray, or some dark color like blue. The other spaces may be left white, or painted light gray or with light color. Landscapes are capable

of a great many two-value arrangements but not all such will be fine. Strive for harmony rather than number, variety or strangeness. Compare your set and select the best.

2. Compose the landscape into borders of different proportions; then vary each of these in two values.

The illustrations, No. 47, make clear these two ways of working. The student may use the examples given here, then sketch his own subjects from nature.

#### SPOTTING, — NOTAN OF PICTURES.

When the art student sketches the masses of dark-and-light in pictures, the “Spotting” as he calls it, he is studying Notan of two values, but in an aimless way. He is hunting for some rule or secret scheme of shading,—an “ornament,” “bird’s wing,” a “line;” vain search, for no two works can have the same plan, each has its own individual line and tone.

On the other hand much can be learned by studying the masters’ plans of composition,—not to imitate but to appreciate the harmony. One good way to accomplish this is to sketch in the massing, in two values. Choose a number of masterpieces, ancient and modern, and blot in the darks in broad flat tones. This will reveal the general notan-scheme of each picture (pp. 71, 72).

#### ORIGINAL PICTORIAL COMPOSITION IN TWO VALUES.

The student is now ready for original





E. Manet - On the Beach



(colored fresco)

Tiepolo - Scuola dei Carniani



A. Mauve.



Seymour Haden (Fishing)



J. F. Millet - Sheep-sheavers



Corot



Fortuny - Snake-charmers



A. Mauve



Giotto - Joachim and Anna

Compositions by various masters, reduced to two tones.  
"Spotting"



Corot

work with landscape, still life or figures. Sketching from nature with brush and ink is a means of interpreting subjects in a very broad way, obliging one to select and reject, to keep only the essentials. It cultivates appreciation of texture and character and brings out the power of doing much with little,—of making a few vigorous strokes convey impressions of form and complexity. It leads to oil painting where

the brush-touch must be charged with meaning; it is of direct practical value in illustration as such sketches are effective and easily reproduced. It is almost the only method for painting on pottery, as the absorbent glaze admits of no gradation, emendation or erasure; the touch must be decisive and characterful. Examples of brush-sketching from nature are given in No. 48 on opposite page.



Massing in two values, from Corot, Daubigny and Hokusai





NOTAN  
X



No. 48 Sketches from nature two values

NOTAN  
XI.



Studies from Gothic Sculpture  
notan of two values



Nº 49



Design for wood-block-printed  
pattern — application of two values.  
Repetition

NOTAN—Two values Subordination and  
Variation of a motif Repetition



# NOTAN

## XI.—TWO VALUES—GOTHIC SCULPTURE JAPANESE DESIGN BOOKS. APPLICATIONS OF TWO VALUES

**S**CULPTURE, a line-art, when designed to enrich architectural spaces, may have the aid of notan in the form of relief and shadow. The range of tone is narrow and the field seems limited, but the masters have shown that the creative imagination knows no bounds. They have expressed every emotion—divine calm, serenity, excitement, fury, horror; and effects of light, atmosphere, distance.

The pediment and metopes of the Greek temple owed as much to notan as to line; we can infer from the restorations what the original scheme was. Greek architecture, however, did not admit of extensive enrichment with sculpture; there were few spaces to fill, and those not advantageous as to position, shape or lighting. As the temple evolved into the Christian church, the new forms of building and the new story to tell called for sculpture. Through Byzantine and Romanesque it took a fresh start, pushing upward and outward until it flowered abundantly in Gothic. Although the church selected the themes, the sculptor might interpret form and facial expression as his imagination directed, and compose his groups as he chose. Old conventions were abandoned; the artist

might now seek motifs in his own mind or in nature. The result of this liberation of individual creative power was great art. The Gothic designer used notan with dramatic invention and magical strangeness. The French cathedrals of the best period (XI to XIV century) notably Paris, Chartres, Amiens and Reims, show how sculptural traditions were boldly broken and the most daring effects accomplished without forgetting the character of stone or the architectural requirements. The stone-cutter was an artist as long as his restraint was self-imposed—as long as he held to unity of the whole composition and kept details in their own place—as long as he carved harmonies, not mere stories; pp. 8, 11, 29, 51, 52.

The masterpieces of Gothic sculpture may be studied from photographs and from reproductions published by the Musée de Sculpture Comparée, Paris.

Sketch in the masses with brush and ink in two values. Draw freely, at arm's length, on gray or low-toned paper, observing the character of shapes of dark; No. 49, opposite. New avenues of tone-thought will now open, through appreciation of the power and beauty of the stone cutter's art of the middle-ages.





Japanese Ramma, Fret-saw work, p. 80

## JAPANESE DESIGN BOOKS

If time had preserved for us the sketches of Pheidias, of the architect of St. Mark's, of the great designers of the early ages, we should know how these creators planned the line and mass, the simple structural schemes of their immortal works. In later days when paper was common, artists' drawings were in a less perishable form and many can now be seen in our museums. Some have been published and are fairly within reach, though often in costly editions. But Japanese art comes to the aid of the student of composition with abundant material — sketch books, design books, drawings and color prints. The learner should seek for genuine works of the best periods, avoiding modern bad reproductions, imitations, carelessly re-cut blocks, crude colors, and all the hasty and commonplace stuff prepared by dealers for the foreign market.

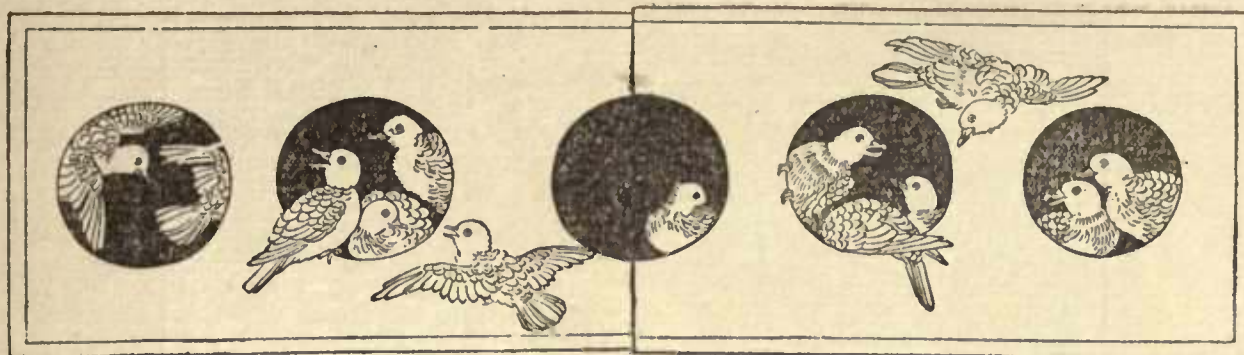
The Japanese knew no division into Representative and Decorative; they thought of painting as the art of two dimensions, the art of rhythm and harmony, in which

modelling and nature-imitation are subordinate. As in pre-Renaissance times in Europe, the education of the Japanese artist was founded upon composition. Thorough grounding in fundamental principles of spacing, rhythm and notan, gave him the utmost freedom in design. He loved nature and went to her for his subjects, not to imitate. The winding brook with wild iris (above) the wave and spray, the landscape, No. 51, were to him themes for art to be translated into terms of line or dark-and-light or color. They are so much material out of which may be fashioned a harmonious line-system or a sparkling web of black and white.

The Japanese books of most value to the student of composition are those with collections of designs for lacquer, wood, metal and pottery, the Ukiyo-ye books of figures, birds, flowers and landscape, and the books by Kano artists, with brush-sketches of compositions by masters.

It was a common practice with the Japanese to divide a page into sections of equal size and place a different design in each section, p. 55. This is of great im-



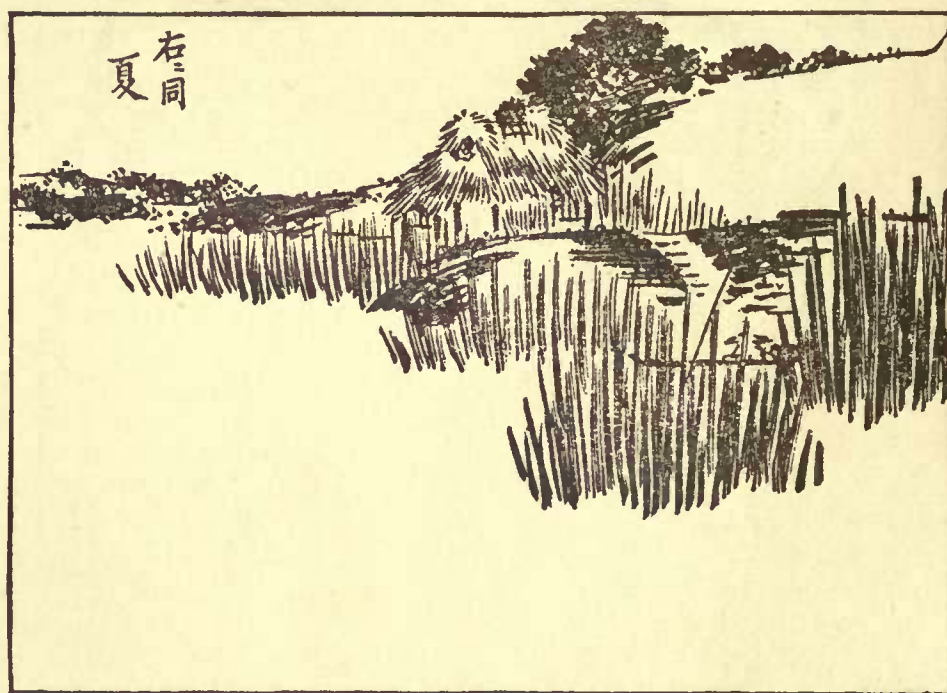
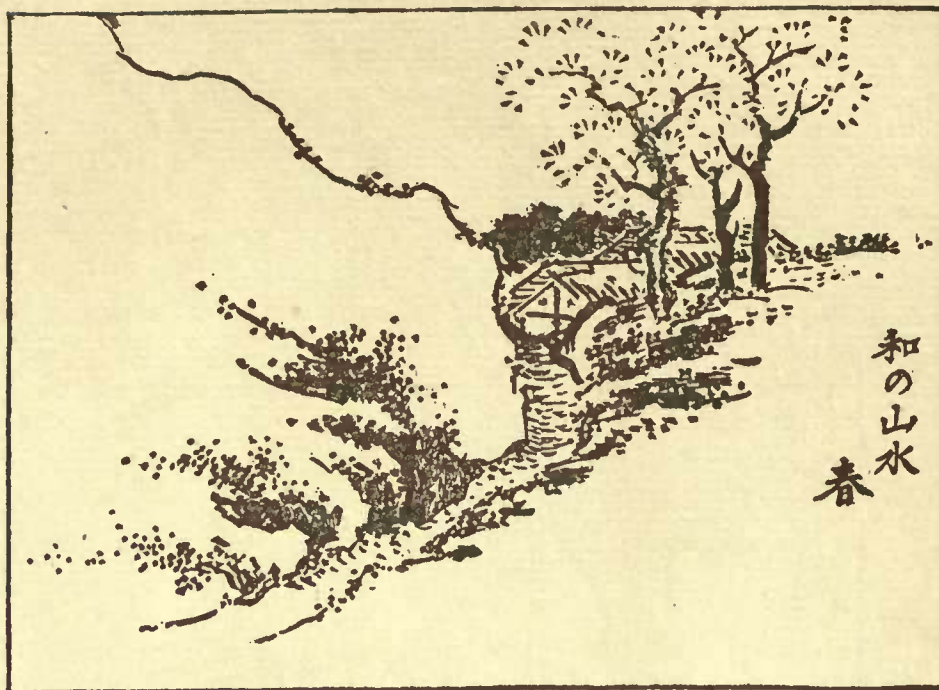


Japanese Ramma Fret-saw work, p 80



No. 50

Japanese design for  
embroidered kimono



No. 51. Japanese landscape compositions for color printing





No. 52. Japanese botanical work. Each page a composition in two values

portance to the student for it illustrates at once the principles of space-filling and notan, and gives an idea of the infinite possibilities of artistic invention.

I have reproduced examples from the three classes of books mentioned above, selected in this case for their brilliancy of notan. Let the student copy them enlarged, then make original designs of similar motives. Good reproductions of many Japanese design books can now be obtained at low prices. They are very stimulating, for they point to the best way of studying nature and of translating her beauty into the language of art; pp. 57, 62, 64, 76 — 79.

#### APPLICATIONS of NOTAN of TWO VALUES

The Structural method of art study places principle before application. Much appreciation of notan could be gained from any one of the subjects just considered, — for example, textiles, — but the tendency would be to think of tone as belonging specially to textiles. The same can be said of Line as it appears in casts, the human form, or historic ornament. Attention is centred upon the particular case, and the larger view is lost. It is better to gain a knowledge of line, mass and color as the material out of which to create; and to become acquainted with principles of harmony-building, before undertaking definite applications. This gives fuller control, and enhances the worker's powers of invention.

Applications of two values are numberless; I will mention a few of them to give

the student some clues for original research and experiment.

**PRINTING.** Florets, seals, initial letters, page ornaments, illustrations, posters, end papers, — drawn in black, gray or one color.

**TEXTILES.** Blue and white towels, quilts, etc., woven or printed, lace, embroidery, rugs, — pages 9, 65, 66.

**KERAMICS.** One color on a ground of different value, as blue and white, No. 54; or black on gray.

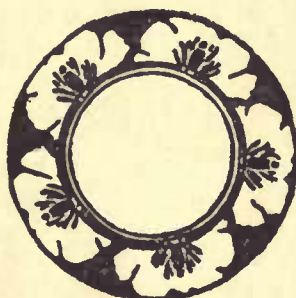
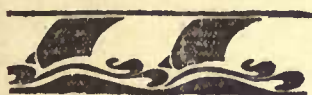
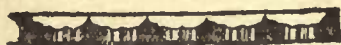
**METAL.** Perforated sheet metal; metal for corners, fixtures, etc., pp. 25, 58.

**WOOD.** Fret saw work, inlay; pp. 62, 76, 77.

Examples of applications are given below, No. 53, and on opposite page.







Nº54

# NOTAN

## XII.—THREE VALUES

**C**LEAR black against clear white is a strong contrast; even the best of such work has some harshness, despite a sparkling brilliancy. A tone of gray, midway between these two extremes, changes their relations and opens up a whole new field for creative activity. Now we must think of different degrees of Notan,—the “value” of one tone against another. This simple set of three notes is the basis of the mezzotint, aquatint, charcoal sketch and wash drawing. The old masters drew on gray paper with black and white.

From three, it is an easy step to many values, and in these refinements of Notan lies the true meaning of the word “values.” That property of painted shapes, whereby they “take their places” one beyond another in a picture, is aerial perspective, not values. It is a desirable quality of Representation, and often becomes a kind of deception most agreeable to the mind unappreciative of art. Those who have little perception of harmonies of tone and color, wish to see objects “stand out” in the picture “as if they were real.”

Whistler protested against this, holding that the portrait painter is not an artist unless he can give the opposite effect; that a portrait that stands out beyond its frame is bad.

The word “values” refers to harmony of tone-structure; the value of a mass is its degree of light or dark in relation to its neighbors.

### EXERCISE

The student comes now to a new exercise of judgment in determining the middle value between black and white, or between light and dark gray. He has to mix this tone, and decide when it is of the right depth; here, for the first time, he begins to paint.

For this painting-exercise will be needed white dishes in which to mix the ink tones, and flat Japanese (ha-ke) brushes. The best paper is Japanese, well sized. The thin coating of glue keeps the edge of the wash from drying before the brush can take it up.

The first difficulty is the laying of a flat wash; this requires dexterity and much practice. Paper must be stretched or thumb-tacked perfectly smooth; ink-stone, dishes and brushes must be clean. For a beginning take a simple line pattern; decide which parts shall be white; then wash a middle tone of gray over the rest. When dry, paint in the black spaces.

The reason for keeping a tone flat is that the value of a whole space can be judged better; if it is sloppy and uneven it loses force and interest. In beginners' work,



and in design, flatness is necessary, but in picture-painting purely flat tones would rarely be used.

### THREE GRAYS, A SCALE

The next step is to mix three values, light, medium and dark, in three white dishes. The intervals can be tested by painting the spaces of a simple scale. This need

White
Middle Gray
Black

not have an outline, as three brush-strokes will suffice.

Apply these tones to a design; make several arrangements, for the effect, and to discover the possibilities in three values.

The subjects might be the same as in notan of two values, pages 63—68. The examples below illustrate the method and re-

sults. See scale, p. 88, also p. 9.

In addition to original composition, the student should copy from masterpieces of design and pictorial art, translating them into three values.

### LANDSCAPE AND PICTURES

NOTAN  
XII

For three-value studies one may use ink, charcoal or oil paint. The two latter are particularly suitable for landscape designs and illustrative work. Charcoal should be used lightly and very freely. It gives effects of vibration, atmosphere, envelope and light, but the handling requires special study and much practice.

The first few exercises in charcoal landscape may be in flat tones (see No. 55, page 85), and the student may find it well to make a scale of three values in this medium; he must learn however to feel outlines without drawing them, and to handle charcoal firmly but loosely.

Cover the paper with a very sketchy tone of soft charcoal; pass over it lightly with a paper stump or piece of cotton cloth. Be careful not to grind the black into the paper, making an opaque smoky tone. Charcoal paper is made rough, to let the



warm white shine between the little particles of black that lie upon the points of the surface.

When a luminous middle-gray is obtained, sketch in the darks with soft charcoal and take out the lights with bread or rubber; this effect is like a mezzotint, Nos. 55, 57, and p. 57.

After the principle of three values has been demonstrated, and the student can appreciate definite intervals of tone, the instructor should allow great freedom in execution, not even limiting to three notes but adding one or two others if necessary to good expression.

For oil painting, mix the three tones in quantity sufficient to paint several studies. Ivory Black and Burnt Sienna will give a good neutral gray. For the color of blue china or the Abruzzi towels, use Prussian Blue, Black and White. Opinions differ as to the use of diluting mediums, and sizes of brushes, for oil painting. I should advise thinning the color with linseed oil and turpentine (half and half), and using large flat bristle brushes. Canvas should be fairly rough in texture. If the surface to be painted on is smooth,—either wood, pasteboard, or canvas,—prepare a ground with thick paint, leaving brush-marks.

#### APPLICATIONS, THREE VALUES

Use of the principle of three values in out-door sketching and in illustration, has been explained above. There is one application, among others, that should be made by the student at this point—composition of a book-page.

The usual illustrated page is an arrangement in three tones,—white paper, gray type, dark picture. The value to the publisher depends quite as much upon the picturesque effect of the illustration as upon its drawing. Size and placing, disposition of type, amount of margin, are matters of Line Composition; but choice of type, and the tone of the illustration belong to Notan Composition. Hence the student will gain much from designing pages, in ink, charcoal or oil, using as pictures the copies from masters, or original studies. Picture, title, initial letter, and body of type must be so composed that the result will be effective and harmonious, No. 58.

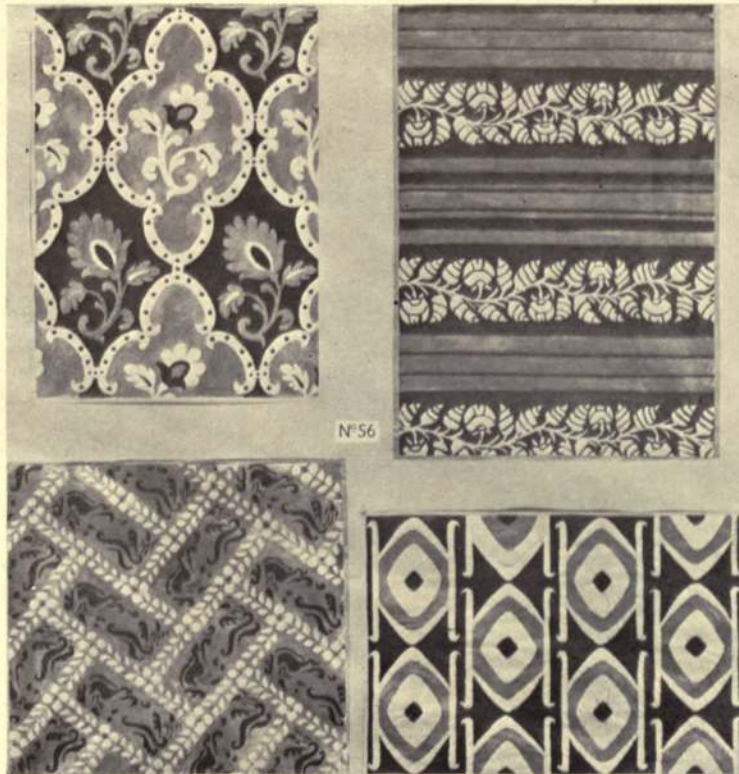
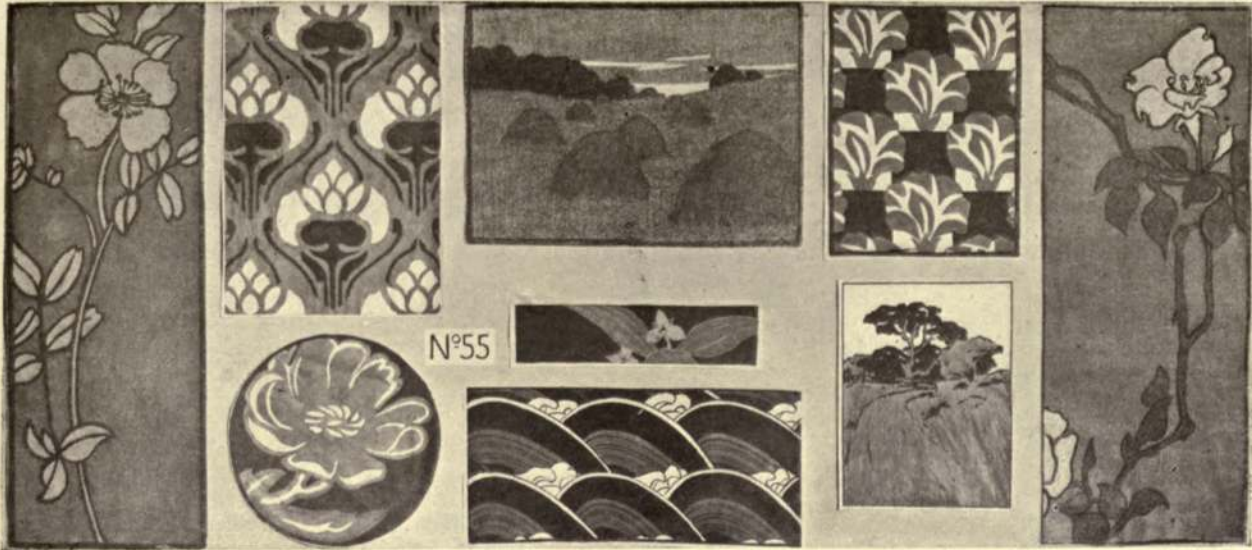
Reference should be made to examples of early printing, to the works of William Morris, and to the best modern printing.



Japanese drawing, effect of three values



NOTAN  
XVI.  
THREE  
VALUES





"THE WOLD AFLOAT" by John Sell Cotman

No. 57

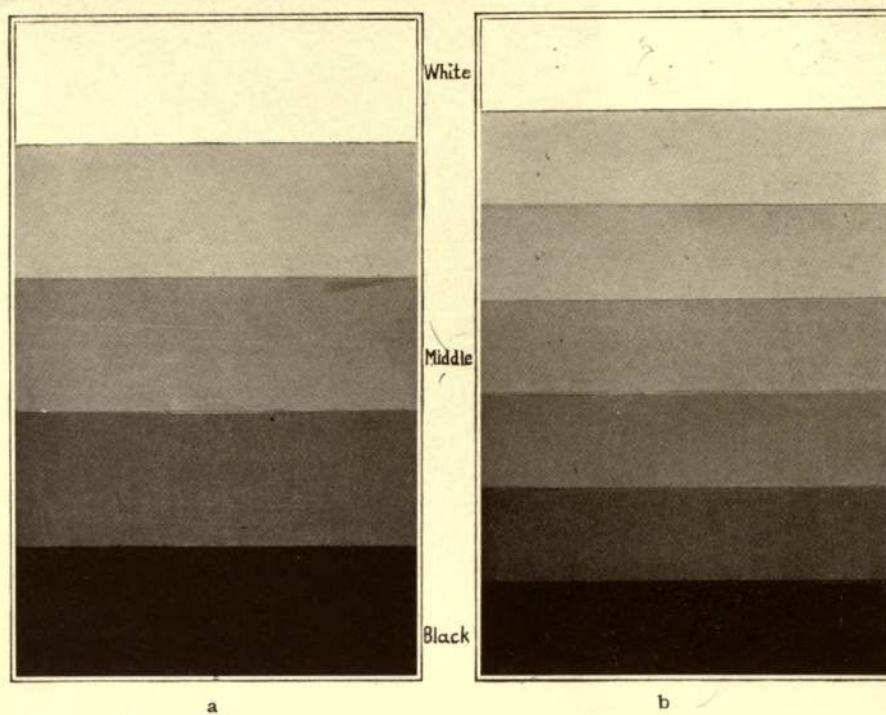


"ST. JOHN'S RIVER" by William Morris Hunt





NOTAN  
XIII



Scales of 5 and 7 values (see p. 89 opposite)



# NOTAN

## XIII.—MORE THAN THREE VALUES

**L**INE, Notan, Color—the elements by which the whole visible world is apprehended,—may or may not be used as the language of art. Like speech, this three-fold language may voice noble emotions in poetic style, or may subserve the vulgar and the humdrum. Art-language must be in art-form; a number of facts, or an incident, accurately described in paint and color may have no more connection with art than a similar set of written statements—just plain prose. There is no art unless the statements are bound together in certain subtle relations which we call beauty. When beauty enters, the parts cease to have separate existence, but are melted together in a unit.

Advanced composition is only a working out of simple elements into more complex and difficult interrelations. If the picture has figures and landscape, the lines of each run in such directions, intersect and interweave in such ways as to form a musical movement. The tones and colors are arranged to enrich one another. A noble subject requires noble pictorial style.

Experience of tone-harmony in two and three values brings appreciation of notan-structure and lays a solid foundation for advanced work.

**SCALE.** At this point construct a scale introducing more delicate relations of tone, and involving finer judgment as to intervals.

A scale of white, black and three grays (a) will be best for beginning, to be followed by a scale of seven values (b). See page 88. These may be made with Japanese ink, water color, charcoal or oil; but not with pencil as it has not depth enough.

The values here are only approximate; perfect accuracy cannot be obtained by the half-tone process.

### EXERCISE

Choose a textile, or any design with a variety of spaces, and try notan-effects with tones from the scale. The object is to discover a fine notan-scheme of values, and by using the scale one is assured of definite intervals. If the notes are mixed in quantity, they may be tried upon a half-dozen tracings at once, from which the best should be chosen.

Remember that the scale-work is only an exercise to help toward clarity of tone, and to encourage invention. Harmony of dark-and-light does not depend upon fixed intervals, nor will the composer adhere to any scale in his original creative work.

Some results of this exercise are shown in No. 58, page 91.

## ILLUSTRATION

After some experience in handling five or seven tones, the student can undertake original composition. For a beginning pure landscape may be best, taking some of the subjects previously used.

Follow this with landscape and figures; groups of figures with landscape background; figures in interiors; and portrait sketches.

Compose for a book-page, using one light gray value to represent the effect of type, as in No. 58, opposite.

Paint very freely, without too much thought of scales and intervals. Let gradations enter where needed for finer effect. Study the work of the best illustrators, noting the tone-scheme and the placing upon the page.

## ETCHING

Etching, pen drawing and pencil sketching are line-arts. The needle, pen and lead pencil are tools for drawing lines, and there is much reason in Whistler's contention that tone and shading should not be attempted with them. The tool always gives character to work, and the best results are obtained when the possibilities of tools and materials are fully appreciated. If a sharp point is used in drawing, it will produce pure line, whose quality may reach any degree of excellence. Whistler, in his etchings, worked for the highest type of line-beauty; shadows and tones were felt, but not expressed.

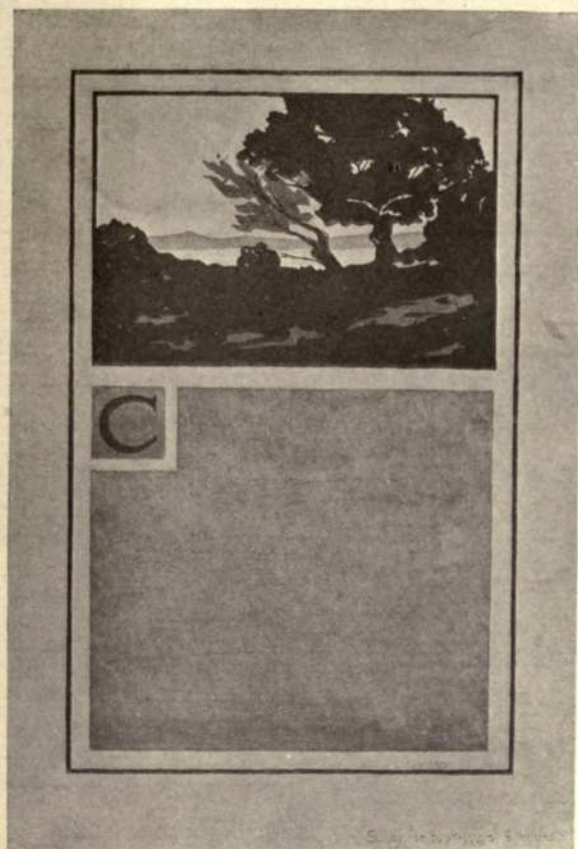
On the other hand the artist is not subject

to restrictions and fixed laws. He cannot allow even a master to interfere with his freedom; there is no "thou shalt" and "thou shalt not" in art. Admitting the value of all the arguments for restricting the use of the needle to line only, the artist observes that clustering of lines inevitably produces tone and suggests massing (notan of line, page 54) that this effect is developed in rich gradations by wiping the etching-plate in the process of printing. Etchers are thus tempted to use tone, and many masters, from Rembrandt down, have worked in tone more often than in line.

## PEN DRAWING

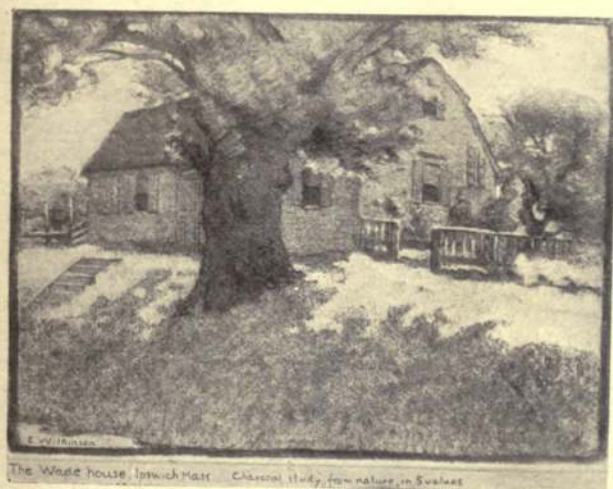
is a dry, hard process but one of great value in modern illustration owing to the ease with which it may be reproduced. It need not be as inartistic as it usually appears; observation of pen work will show that, aside from faults in composition, failure in interest lies largely in the handling. Perhaps one pen only is used, and all textures treated alike, whereas every texture should have its own characteristic handling; cross hatching or any uniform system of shading with the pen is deadly. Study the rendering; suggest surface-quality rather than imitate or elaborate; use a variety of pens. Johnston has shown with what art the reed pen may be employed in lettering and illuminating. In comparison with the Japanese brush, the ordinary pen is a clumsy tool, but nevertheless it is capable of much more than is usually gotten with



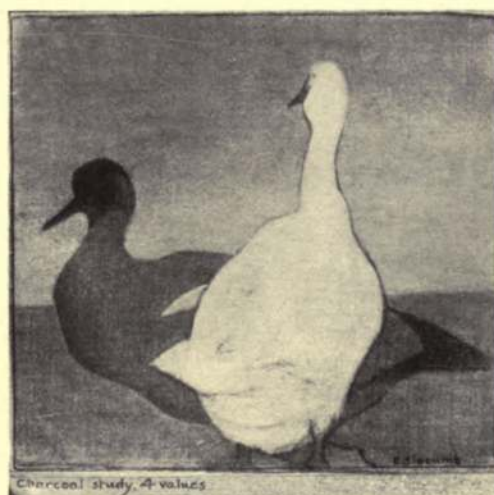


Variation of a textile motif, 3 values, ink

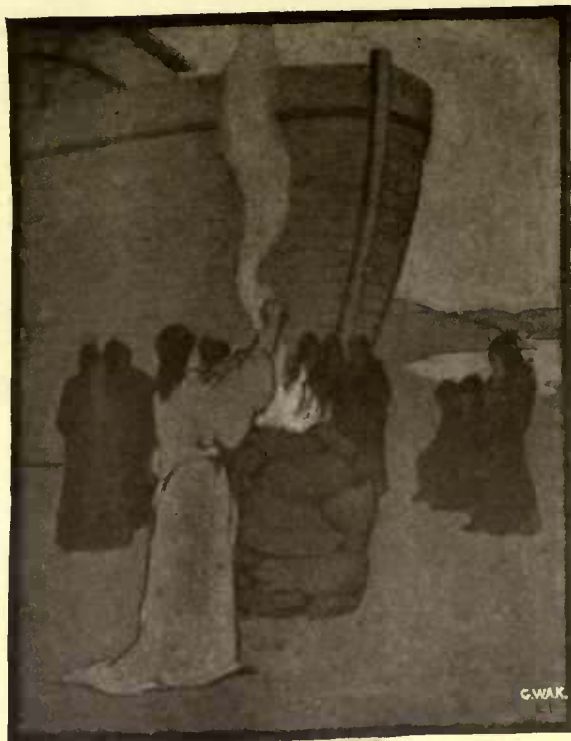
No. 58



The Wade house, Ipswich Mass. Charcoal study, from nature, in 5 values



Charcoal study, 4 values



Noah's sacrifice



Compositions in more than three values  
Pratt Institute, Brooklyn, New York





No. 59

"THE PIRATE SHIP" Composition in four values, Teachers College, New York



"HARRY MAYNE'S HOUSE" from nature, five values, Ipswich Summer School of Art

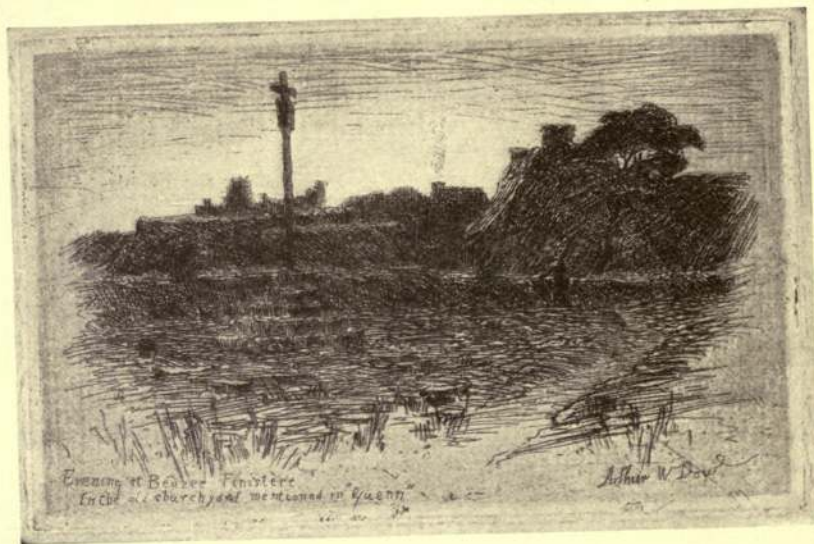


Up Pudding Street March 1906



Salem - Customs House from Derby Wharf

No. 60



Evening at Beaver Fenwick  
In the churchyard mentioned in Quenn



it; and the reed pen closely approaches the brush as a line-implement.

The brush may be used as a pen, values and massing being obtained by blots and clustering of lines. Two examples are given below; see also pp. 7, 9, 19.

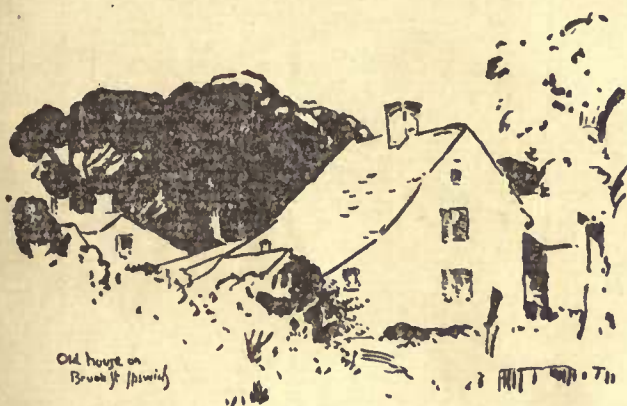
### PENCIL SKETCHING

Much that has been said of etching and pen drawing is equally true of the hard lead pencil; but the soft pencil has many of the qualities of charcoal. It may even be made to resemble the ink wash. The most successful pencil work is that in which line is the main thing,

shading being only suggested. These darks, whether meant for shadows, local tone, or color, will form a "spotting" to which is largely due the interest of the sketch.

If shading is attempted, the tones, whether gray or dark, are made by laying lines side by side, not by cross-hatching or going over twice. A pencil sketch must be off-hand, premier coup, brilliant and characterful. Two examples are given as hints for handling, No. 60. It is not possible here to discuss pencil, pen or etching, at length; they are only touched upon in their relation to composition of line and notan.

NOTAN  
XIII



## INK PAINTING

Supreme excellence in the use of ink was attained by the Chinese and Japanese masters. Impressionism is by no means a modern art (except as to color-vibrations) for suggestiveness was highly prized in China a thousand years ago. The painter expected the beholder to create with him, in a sense, therefore he put upon paper the fewest possible lines and tones; just enough to cause form, texture and effect to be felt. Every brush-touch must be full-charged with meaning, and useless detail eliminated. Put together all the good points in such a method, and you have the qualities of the highest art; for what more do we require of the master than simplicity, unity, powerful handling, and that mysterious force that lays hold upon the imagination.

Why the Buddhist priests of the Zen sect became painters, and why they chose monochrome are questions involving a knowledge of the doctrines of Buddhism and of the Zen philosophy. It is sufficient to say here that contemplation of the powers and existences of external nature, with a spiritual interpretation of them, was the main occupation of Zen thought. Nature's lessons could be learned by bringing the soul to her, and letting it behold itself as in a mirror; the teaching could be passed on to others by means of art—mainly the art of landscape painting. Religious emotion was the spring of art-power in the East, as it was in the West. Landscape painting as religious art, has its parallel in Greek and Gothic sculpture, in Italian painting

of the world-story, of the Nativity, the Passion, and the joys of heaven.

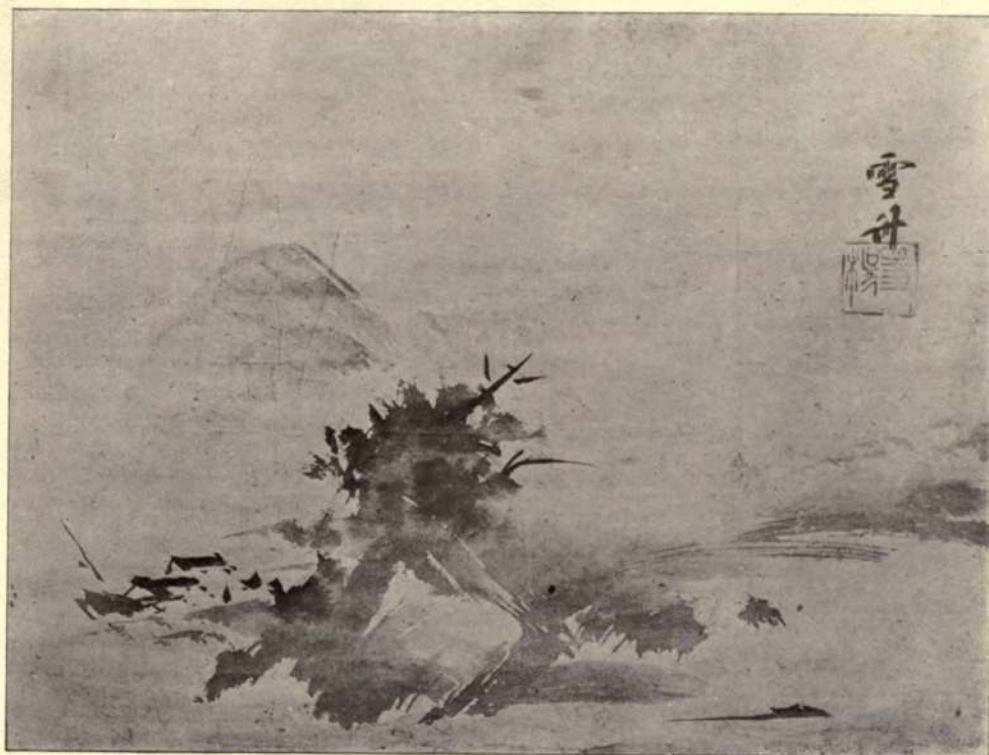
Some of these priest-artists of the Zen, Mokkei, Kakei, Bayen in China; Shubun, Sesshu in Japan, rank with the great painters of all time. They, and such pupils as Sesson, Soami, Motonobu and Tanyu, were classic leaders who have given us the purest types of the art of ink-painting. To them we look for the truly artistic interpretation of nature; for dramatic, mysterious, elusive tone-harmony; for supreme skill in brush-work.



Japanese sketch of the massing in a painting  
by an old master

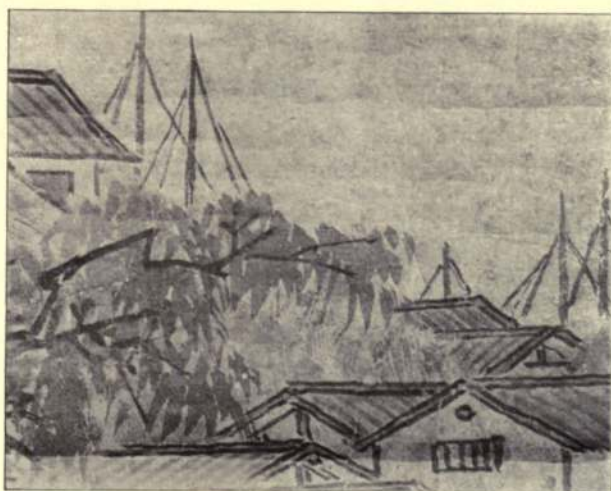
Ink-painting is both an art and a craft; it has refinements and possibilities that can be realized only by working with a Japanese artist. He starts with a paper of low tone—it may be its natural state, or he may wash it over with thin ink





Japanese ink painting by SESSHU, XV. cent.  
From the original in the Museum of Fine Arts, Boston

No. 61



Detail of painting by SESSHU, showing quality of brush stroke

NOTAN  
XIII.  
INK  
PAINTING



No. 62. AN IPSWICH HILL. Ink painting by Arthur W. Dow



and color. Into this atmospheric undertone he plays gradations, sharp-edged strokes, drops of black, and vibrating washes,—only touching upon forms, but clearly marking planes of aerial perspective. No. 61.



It is not possible for us to attain perfect mastery of Japanese materials and methods, but the study will train in appreciation of tone-composition, and in better handling of our own water color and oil. Good photogravures may now be obtained; in some cases the student may copy from originals in our museums.

For experiments in ink-painting I recommend the Japanese paper called "toshi."

If this is not within reach, a good substitute may be made by sizing manila paper with a thin solution of alum. Japanese paper should be wet, and pasted, by the edges, upon a board. Manila paper, after wetting, may be tacked upon a stretcher. Japanese ink and ink-stone, (Chapter II) round and flat brushes, soft charcoal, and a set of white dishes will be needed. Sketch in the subject lightly with the charcoal, dust it off and draw the main lines with pale thin vermilion water color. Wash in the broad masses, relying upon strengthening by many overtones. Put in the darks last, being very careful that they are not too sharp-edged. No. 62.

NOTAN  
XIII.  
INK  
PAINTING



Note.— These two sketches and one on p. 96 are from a XVIIth century Japanese book

# COLOR

## XIV.—COLOR THEORY

**C**OLOR, with its infinity of relations, is baffling; its finer harmonies, like those of music, can be grasped by the appreciations only, not by reasoning or analysis. Color, in art, is a subject not well understood as yet, and there are violent differences of opinion among artists, teachers and critics, as to what constitutes good color-instruction. The most that I can do here is to outline a simple method of study. The usual advice of the academic painter to "keep trying," is discouraging to the beginner and increases his confusion; it is not in accord with good sense either, for the other arts are not attacked through timid and aimless experiment. An artist may say that a certain group of colors is a harmony; the pupil cannot see it, but he takes the master's word for it. The artist is not teaching successfully unless he points the way to appreciation, however hard or long it may be.

A systematic study of line and tone is very profitable, as we have seen; I believe that color may be approached in like manner, and I shall attempt now to relate the treatment of the color-element (chapter I) to that of the other two, and to give some results of personal experience.

Those who have but little time for work in color, can spend it best in copying,

under guidance, examples of acknowledged excellence, like Japanese prints, Oriental rugs, and reproductions of masterpieces. Contact with these, even looking at them (if the pupil is taught what to look for), will strengthen the powers of color perception. In schools where the art periods are short and few, this may be the only method possible. (See p. 13 and chap. XVI.)

For those who intend to use color in creative work a certain amount of theory is indispensable, as it simplifies the subject and opens up a few definite lines of research. The word "theory" has become a kind of academic bugbear, yet Leonardo da Vinci said that the painter who works without a theory is like the sailor who goes to sea without a compass. Well-ordered thought is as necessary in art as in any other field. Theory is a help to clear thinking and gives direction and purpose to practice.

Color, however complicated, may be reduced to three simple elements:

**HUE**,—as yellow, blue-green,

**NOTAN** (or Value),—as dark red, light red,

**INTENSITY** (or Bright-to-grayness)—as intense blue, dull blue.

Color harmony depends upon adjustments in this three-fold nature. If a color-scheme is discordant, the fault may



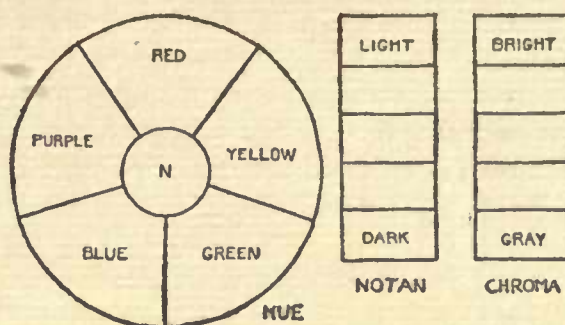
be discovered in,—wrong selection of hues or weak values, or ill-matched intensities, or all three. This simple classification reduces the perplexities that beset the student, by showing him where to look for the cause of failure. The words "Value" and "Chroma" are used in this connection by Albert H. Munsell, to whose book "A Color Notation" the reader is referred for a very convincing exposition of color theory.

Mr. Munsell has invented a photometer to measure values of light and color, and has prepared scales, spheres, charts and pigments for school use.

My own experiments in making circles of hues and scales of notan and intensities, were based upon the old theory—Red, Blue and Yellow as primaries, Green, Orange and Violet as secondaries, etc. At that time (1890) the progression from bright to gray was not recognized as a distinct element of color, but in art-educational works difference of intensity was confused with dark-and-light; spectra for school use contained hues in violent contrast as to brilliancy and value.

Science determined long since that the fundamental color impressions are not red, blue and yellow, but Red, Green and Violet-blue. Mr. Munsell adopts these and two secondaries, Yellow and Purple—five hues in all—as the basis of all color expression in art. This seems very simple and quite sufficient for working out all problems in color scheming.

Note. Experiments as outlined below, are intended only to set the student



thinking, in an orderly way, about the three dimensions of color.

#### EXERCISES

**HUE.** To judge of the effect of one hue upon another, arrange the whole five, Red, Yellow, Green, Blue, Purple, in a circle making them equal in value and equal in degree of brightness, thus eliminating notan and intensity. In the centre of the circle (N) paint a note of middle value, chosen from the scale, p. 88. Then paint the other divisions R, Y, G, B, P with the five hues. When this is well done if the circle were photographed upon a color-blind plate, the result would be a flat tone of middle gray.

No pigment is of the exact quality needed; red that is neither yellow-red nor purple-red can be mixed from Vermilion and Crimson; Prussian Blue is greenish, New Blue is reddish; some pigments are too light, others too dark. This exercise requires study of great importance to the painter, giving him a better acquaintance with his materials.

Next, make a circle of intermediates, No. 63, by mixing adjoining hues; this gives five more notes—yellow-red, green-yellow, blue-green, purple-blue, red-purple. Bear in mind that these circles are

only statements of relations, of the same use as a scale. The question now is of the art-use of them, of composing a harmony with them.

**APPLICATION.** Choose a line-design, and paint the spaces with colors from the second circle. The effect will be peculiar because there are no differences of dark-and-light or intensity; the only harmony possible comes from interplay of hues, a kind of iridescence and vibration; see opposite page.

Colors that stand opposite in circle—as blue, yellow-red; or red, blue-green—will, if placed side by side, increase each other's power and produce violent contrast. Opposition of Color is analogous to Opposition of Line (page 21) and Opposition of Notan (black and white). To unite these extremes of difference, bring in a third hue related to each, for example,—red, green-yellow, blue-green; yellow, yellow-red, purple-blue. This is the principle of Transition (page 22); see also page 82, three values.

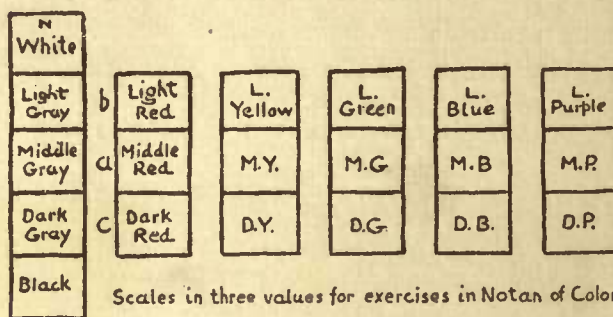
Practice in composing with few and simple elements, of deciding when contrasting colors are of equal value, or equal intensity, is of direct use in art. The landscape painter opposes the whole sky to the whole ground; he wants a vibration of color in each, without disturbing the values; the designer in stained glass sometimes desires to fill a space with iridescent color, perhaps as a background for figures.

The student may, if he likes, use black with these colors, producing a very brilliant effect like a Cairo window; but here

the hues are measured against black, rather than against each other.

In No. 63 are shown two experiments in composing with HUE.

**NOTAN of COLOR.** Draw in outline six scales, as shown in the diagram. Paint N in white, black and three grays (see page 88). In the spaces marked (a) paint each of the five hues—red, yellow, green, blue and purple, middle value and equal intensity.

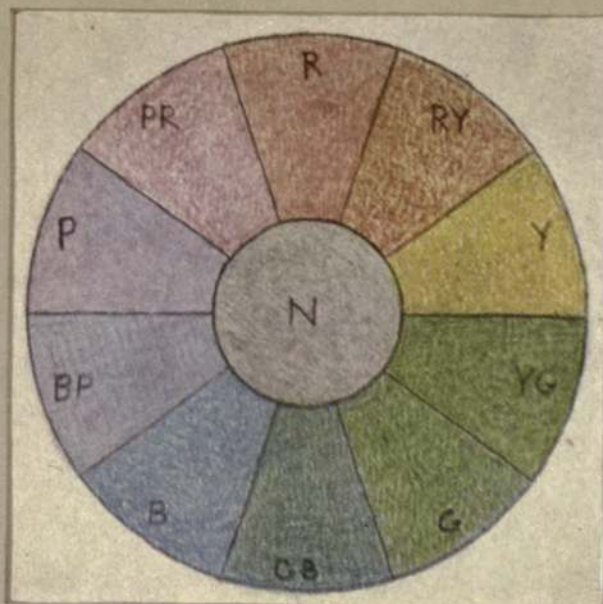


Next, paint a lighter value (b) and a darker (c) making a notan-scale of each hue,—light red, middle red, dark red, etc. Observe that intensity diminishes toward light and dark.

If the intermediates, yellow-red, green-yellow and the rest, are also arranged in this way from light to dark, you will have a set of notes for application in composition.

**APPLICATION.** A line design may now be colored from one of the scales, say Blue. Hue and Intensity being eliminated, the whole effort is centred upon notan of color. This is an exercise in three values (page 83) using color instead of neutral gray. No. 64, p. 105.





COLOR XIV.

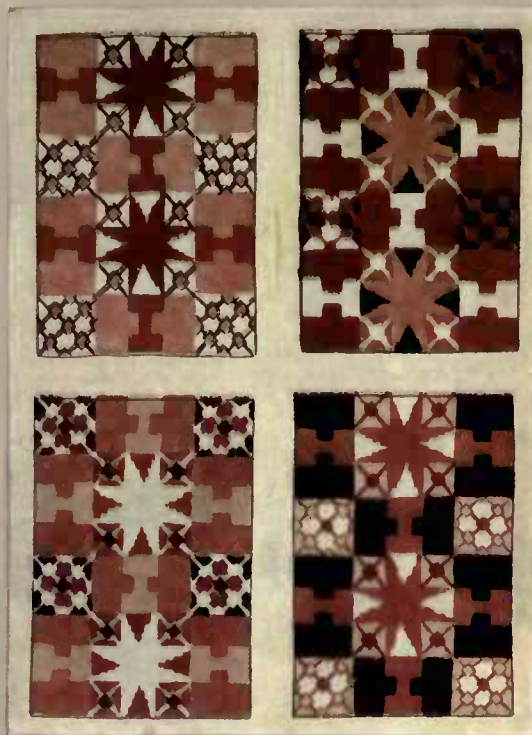
COLOR THEORY  
HUE  
No. 63

SCALE of 10 HUES and NEUTRAL. Middle Value

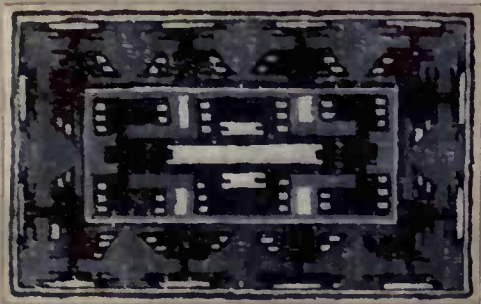








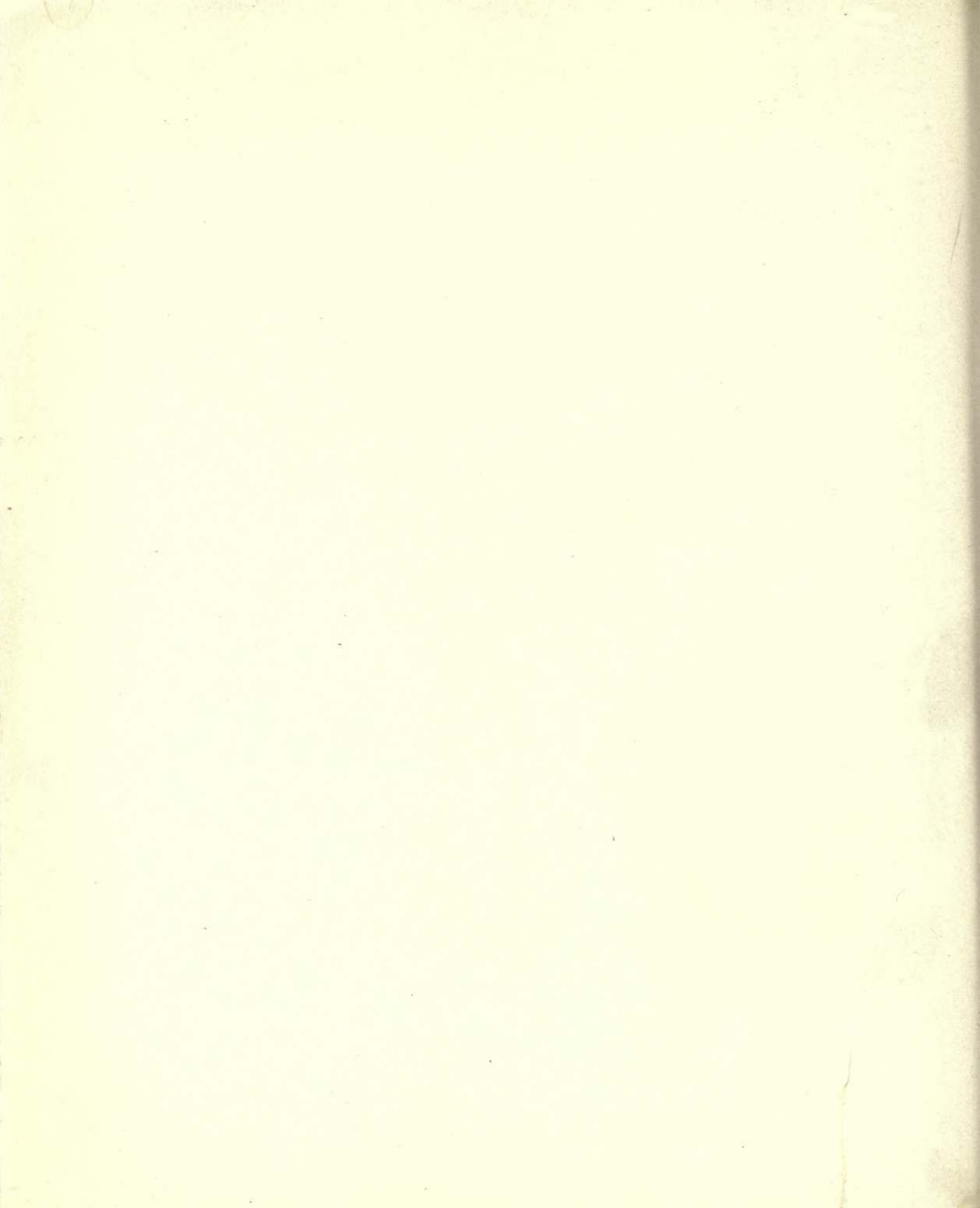
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COLOR. XIV—COLOR THEORY NOTAN of COLOR

Teachers College, Armada School and Press, Boston

1051









COLOR. XIV  
COLOR THEORY  
INTENSITY  
*Scales and Exercises*



No. 65





More applications can be made than in the case of Hue; historic art is full of them. Dutch tiles, Japanese prints and blue towels, Abruzzi towels, American blue quilts, etc., are examples of harmony built up with several values of one hue.

With two hues innumerable variations are possible. Japanese prints of the "red and green" period are compositions in light yellow-red, middle green, black, and white. Other examples can be easily found in the world's art. The student should apply the scale-notes to his own designs, not using, at this stage, more than two hues, with perhaps black and white.

**INTENSITY.** Color varies not only in hue and value, but in intensity,—ranging from bright to gray. Every painter knows that a brilliant bit of color, set in grayer tones of the same or neighboring hues, will illuminate the whole group,—a distinguished and elusive harmony. The fire opal has a single point of intense scarlet, melting into pearl; the clear evening sky is like this when from the sunken sun the red-orange light grades away through yellow and green to steel-gray.

This rarely beautiful quality of color can be better understood by isolating it and testing it in designs (as has been done with each principle, from Line onward; see page 21).

Paint a scale with one hue, say Vermilion, keeping each space of the same value, but grading the intensity down to neutral gray.

**APPLICATION.** Arrange these notes in a line design. As Hue and Notan are eliminated, the only harmony will be that of bright points floating in grayish tones (No. 65). Other hues may be scaled and tested in like manner.

Combine two hues in one design, all values equal,—adding contrast of hue to contrast of intensity.

Examples abound in painting. To cite a few: the element of intensity gives breadth and tonal harmonies in stained glass, Persian rugs, Cazin's foregrounds, the prints of Harunobu, Kiyonaga and Shunsho.

**COMPOSITIONS in HUE, NOTAN, INTENSITY.** In all color-schemes these three will be found in combination. Analysis of a few compositions will be worth while; for example, the print, No. 69, p. 124, and the print and textile, page 13. Note (1) the number of hues; (2) the number of values of each hue, whether dark, light or medium; (3) the degrees of intensity of each hue, whether very bright, bright, medium or dull; (4) the quantity of each color and its distribution in the design; (5) the amount and effect of black, white and neutral gray.

For a simple exercise in composition the student might color a line design in several ways, using three hues, varying the dark-and-light distribution and the quantity of bright and gray tones.

Follow this with other designs in color.—flower panels, repeating patterns, figures in costume, and landscape. A little of this kind of work will cultivate good

COLOR  
THEORY  
XIV

judgment as to color relations, and will stimulate invention. Color Theory does not ensure harmony but is a help toward it, as it shows where balance and adjustment are needed.

Note. It is next to impossible to reproduce colors with perfect accuracy, and even if the hues, values and intensities could be exactly copied, it is doubtful if the inks would remain absolutely un-

changed for a great length of time. The plates of Color Theory here shown are intended only as statements of the fundamental color-relations. They are not scientifically accurate, nor do they need to be,—they are to be used in art, not in science. Their purpose is to show the pupil how to study color, how to make scales and apply them in art, rather than to furnish a standard to be copied.



"THE GUNDALOW" study in three values. See p. 82







No. 66

COLOR. XV  
COLOR DERIVED FROM NOTAN  
Source: 1914 - Teachers College, Columbia University, New York





# COLOR

## XV.—COLOR DERIVED FROM NOTAN

ONE approach to Color may be through Notan, either before or after studying color theory. By clustering lines tone is produced (page 54); by tingeing neutral grays Color is produced. In monochrome itself fine relations of notan will suggest color.

Japanese ink painters enhance the harmonies of tone-composition by mingling slight quantities of hue with the ink. Faint washes of yellow in foregrounds, of green in foliage, of blue in sea and sky, of red and other colors in buildings and costumes, convey impressions of full color-keys.

Etchers and lithographers often add a few touches of color not only as a contrast to the grays, but to cause the beholder to imagine the whole color-scheme. The effect of modifying neutrals with hue may be observed in the following

### EXERCISE

Prepare a set of three gray washes, light, medium, and dark (page 83) in three white dishes. Japanese ink will not mix with our water colors; use Ivory Black with a touch of Burnt Sienna to bring it to neutrality.

Having settled upon a color arrangement for some simple design, mix a small quantity of color into each dish.

Suppose the subject to be a tulip panel in three values:

1. Leaves—middle yellow-green
2. Flower—middle red-yellow
3. Background—light yellow

Add to 1st dish a yellow green (Prussian Blue and Gamboge); to the 2nd Vermilion and Gamboge; to the 3rd Raw Sienna. Paint these notes upon the design. (See opposite page.)

Make a half dozen tracings of the same design. As each one is painted add more color to the washes until the last one has a very small quantity of gray. The result is a series in which color grows gradually from neutrals. No. 66. Next, use bright and gray tones of the same hue, an effect like faded rugs and age-stained Japanese prints.

Dulling colors with gray may not harmonize them. One who appreciates fine quality is not deceived by those who "antique" rugs or prints with coffee and chemicals. A design poor in proportion, weak in notan and harsh in color cannot be saved by toning—the faults are only a little less apparent.

ONE HUE and NEUTRALS. Another approach to color, from notan, is through substitution of hues for grays. This might (in a short course) follow exercises in five or more values (page 89.) Referring now to the scales of five and seven values, for application to a design,

substitute a hue for one of these grays, carefully keeping the value. If the subject be a variation of a Coptic textile, a warm red or yellow-green may be chosen; for a flower panel, bright yellow, yellow-red or emerald green. Excellence in result will depend upon distribution of the one hue among neutral tones.

Examples are many; two kinds only need be mentioned now,—American Indian pottery, and landscapes in black, gray and vermilion red from Hokusai's "Mangwa," (p. 57.)

**ONE HUE in TWO and THREE VALUES.** The next step would be to replace two grays with two values of one hue, making scales like these:

White	White
Light green	Light purple
Middle green	Middle gray
Dark gray	Dark purple
Black	Black

Follow by eliminating all the grays, and the scale might be like this:

White
Light blue-green
Middle blue-green
Dark blue-green
Black

Choice of color will depend upon the nature of the design.

The medium may be crayon, wash, opaque water color or oil paint.

**TWO and THREE HUES.** If two hues are introduced the complexity will be greater, but there will be more

chances for invention and variation. With at least ten hues to choose from—R, YR, Y, GY, G, BG, B, PB, P, RP—each one of which might have perhaps four degrees of intensity (from very bright to dull) the student has material to compose in any key. Two typical scales are given below:

Two hues — White

Light yellow  
Middle gray  
Dark green  
Black

Three hues — White

Light yellow  
Middle gray-green  
Dark gray-purple  
Black

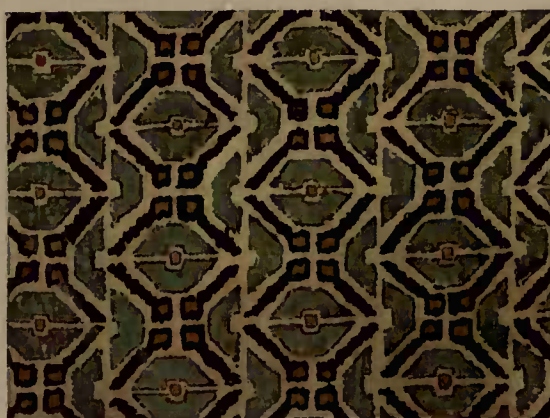
## HARMONY

Will the exercises in the foregoing chapters ensure a harmony? No, they are only helps to a better understanding of color. Harmony depends upon (a) good line design, (b) choice of hues, (c) quantity of each, (d) a dominating color, (e) notan values, (f) fine relations of intensity, (g) quality of surface, (h) handling. All these in perfect synthesis will be found in the works of the greatest masters. It is also true that simple harmonies are not difficult to realize, as is witnessed by primitive art and the best work of students.

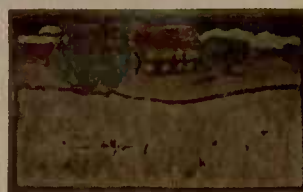
With practice in the ways suggested here, two other things are necessary,—advice from an experienced and appreciative instructor, and acquaintance with fine examples of color.







COLOR XVI



No. 67



Color Schemes from Japanese Prints—Applications to Design

Students' work—Teachers College, Ipswich School of Art and Craft Institute



# COLOR

## XVI. — COLOR SCHEMES FROM JAPANESE PRINTS AND FROM TEXTILES

**I**N the quest for harmony, what better course could be taken than to copy harmonies? Nothing so sharpens color perception as contact with the best examples. The attempt to reach a master's style, peculiar color-feeling, refinements of tone and methods of handling, brings both knowledge and appreciation. For ordinary use Japanese prints are most convenient and inspiring color-models.

**COPYING JAPANESE PRINTS.** In the best of these the color has a peculiar bloom due to the process of printing from wood blocks. The paper is pressed upon forms cut on the flat side of a board; the grain of the wood, the rough surface of the "baren" with which the paper is rubbed down, and the fibrous texture of the paper combine to make a luminous vibrating tone. Particles of color lie upon the tops of silken filaments, allowing the undertone of the paper to shine through, — precisely the quality sought by painters in using a rough canvas and thin washes, or thick color put on with small brushes. In the print the vibration is not obvious, but the effect is that of color over which floats a thin golden envelope.

Ordinary charcoal paper is good for copies, as it has a roughness that aids in producing atmospheric tones. Rub a

slight quantity of charcoal over the surface, very lightly; wipe it off with chamois or cotton rag, leaving little points of black in the hollows of the paper.

Isolate the desired color-passage, by cutting an opening in a sheet of white paper and laying it upon the face of the print. Copy with washes of water color. If the print is age-stained, tone your charcoal paper with Raw Sienna and Ivory Black.

**AUTHORS.** Good color-schemes can be found anywhere in the range of Japanese color-printing, from Okumura Masanobu in the middle of the XVIIIth century to modern days, but the rarity and great value of early prints puts them out of reach of those who have not access to museum collections. I can mention here but a few names, with which the student is most likely to meet:

Torii Kiyonobu and his fellows of the "red-and-green period" (first half of the XVIIIth century); Harunobu, Koriussai, Kiyonaga and Shunsho, who worked in sunny yellows and reds, pearly greens and pale purples, often most cleverly opposed with transparent black and cool silvery grays; then Utamaro and Toyokuni I., strong but less fine.

Among XIXth century men Hiroshige (page 13) and Hokusai are preëminent

as colorists. Both have strongly influenced Occidental painters.

Hiroshige designed series after series of prints, — scenes famous for their beauty or historic interest; stations on the two great highways, the Tokaido and the Kisokaido; effects of wind, rain, snow and twilight; flowers, birds, and a few figures. He would recompose the same series again and again in different size and color-scheme. His design is full of delightful surprises; his artistic power and inventiveness are astonishing. A prodigious amount of work is signed by his name; some critics hold that there was a second, and even a third Hiroshige, but Fenollosa believed in one only, whose manner naturally varied during a long life (1790 — 1858).

Hokusai's color is strange and imaginative; sometimes delicate almost to neutrality, sometimes startling and daring. His pupils Hokkei, Hokuju and the rest are more gentle.

The figure prints most commonly seen are by Kunisada (Toyokuni II), Kuniyoshi and other pupils of Toyokuni I., and Keisai Yeisen. Here, as in most Japanese figure prints, color effects are produced by skilful combinations of patterns upon costumes. Every kind of color-key is possible, by this means, with infinite variations; — impressionist painting with wood blocks.

The student is warned that poor prints abound, — impressions from worn-out blocks, cheap modern reprints, and imitations. Bright, fresh color, however, need not be taken to mean imitation;

some of the early editions have been kept in albums in store houses, and the color has not changed. Experience and appreciation are after all the only safeguards.

**APPLICATION.** Having made the copy of the color-scheme, apply the same colors to several tracings of one design, (No. 67). One of the things taught by this exercise is that distribution and proportion of color affect harmonic relations. Colors that harmonize as they stand in the print may seem discordant when used in different quantities; they will surely be so if the design is badly spaced. With a good design, and correct judgment as to hue, notan and intensity, the chances are that each variation will be satisfactory.

Copies from Hiroshige are of special value to the landscape painter. These may be made in oil as a study of quality and vibration. The procedure is a little different from the preceding. It is better, in oil painting, to copy whole prints. Over the surface of a large rough canvas scrub a thin gray, of the color of the paper of the print. Draw the design in a few vigorous lines, omitting all details. Paint in, at arm's length, the principal color notes, not covering the whole surface or filling in outlines. Mix colors beforehand, taking time to copy each hue and value exactly. The painting, with each color ready upon the palette, should be swift and vigorous. Place the print above the canvas; stand while painting; make comparisons at a distance.



Copying Japanese prints is recommended for practice in color; it does not replace nature-painting or original design, though it will be a help to both.

#### COPYING COLOR from TEXTILES.

The exercises described above may be taken with textiles. Beauty of color in the finest of these is due to good composition, the softening of dust and age-stain, and the atmospheric envelope caused by reflection of light from the minute points of the web. For some kinds of textile the charcoal paper, as above, may be useful; for others, gray paper and wax crayons.

The latter are excellent for copying rugs and can be used in original designs for rugs.

As to models, work from originals in museums,—Persian carpets and rugs, Coptic and Peruvian tapestries, mediæval tapestries, Italian, Spanish and French textiles XIIIth to XVIIIth centuries, etc. In the “rag-fairs” of Europe, and in antique shops, one may find scraps of the woven and printed stuffs of the best periods.

The South Kensington Museum has published colored reproductions of textiles. Art libraries will have Fischbach's, Mumford's, the Kelekian Collection and others in full color.

COLOR  
XVI



# COMPOSITION

## XVII.—IN DESIGN AND PAINTING

**T**HE test of any system of art-study lies in what you can do with it. Harmony-building has been the

theme of the foregoing pages, with progressive exercises in structural line, dark-and-light and color. The product should be power, — power to appreciate, power to do something worth while. Practice in simple harmonies gives control of the more complex relations, and enables one to create with freedom in any field of art. Such training is the best foundation for work in design, architecture, the crafts, painting, sculpture and teaching. After this should come special training; for the designer, architect, craftsman, study of historic styles, severe drill in drawing (freehand and mechanical), knowledge of materials; for the painter and sculptor, long practice in drawing and modelling, acquirement of technique; for the teacher, drill in drawing, painting, designing and modelling, study of educational principles, knowledge of school conditions and public needs, practice teaching.

In a word, first cultivate the mind, set the thoughts in order, utilize the power within; then the eye and the hand can be trained effectively, with a definite end in view. The usual way, in our systems of art-instruction, is to put drill first, leaving thought and appreciation out of account.

Applications of structural principles are many; I can mention and illustrate but a few:

### WOOD BLOCK PRINTING

#### FOR STUDY OF PATTERN AND COLOR

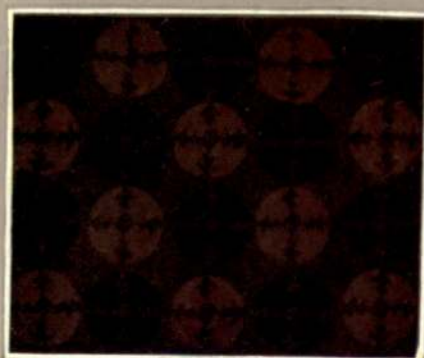
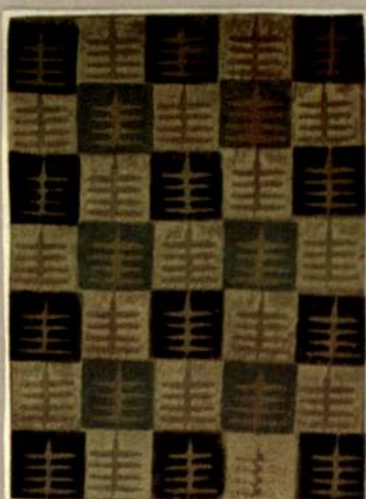
The art of wood block printing has been practised for ages in Oriental countries. Our word "calico" is from the name of an Indian town, Calicut, whence printed patterns were brought to England. The older Indian designs, now very rare, had great beauty of line and color.

These ancient cotton prints are used by the Japanese for outer coverings of pieces of precious pottery,— first a silk brocade bag, then one of Indian calico enveloping a wooden box in which is the bowl wrapped in plain cotton cloth.

The process of wood block printing is very simple, and in my opinion of special educational value. After observation of the craft in India in 1904 I determined to introduce it into art courses— both for adults and children. The method is outlined below:

1. Design the pattern in pencil or ink.
2. Draw the unit, with attention to its shape and proportions and the effect when repeated.
3. Paste this face down upon a wood block; pine, gum wood, or a hard wood of close grain.





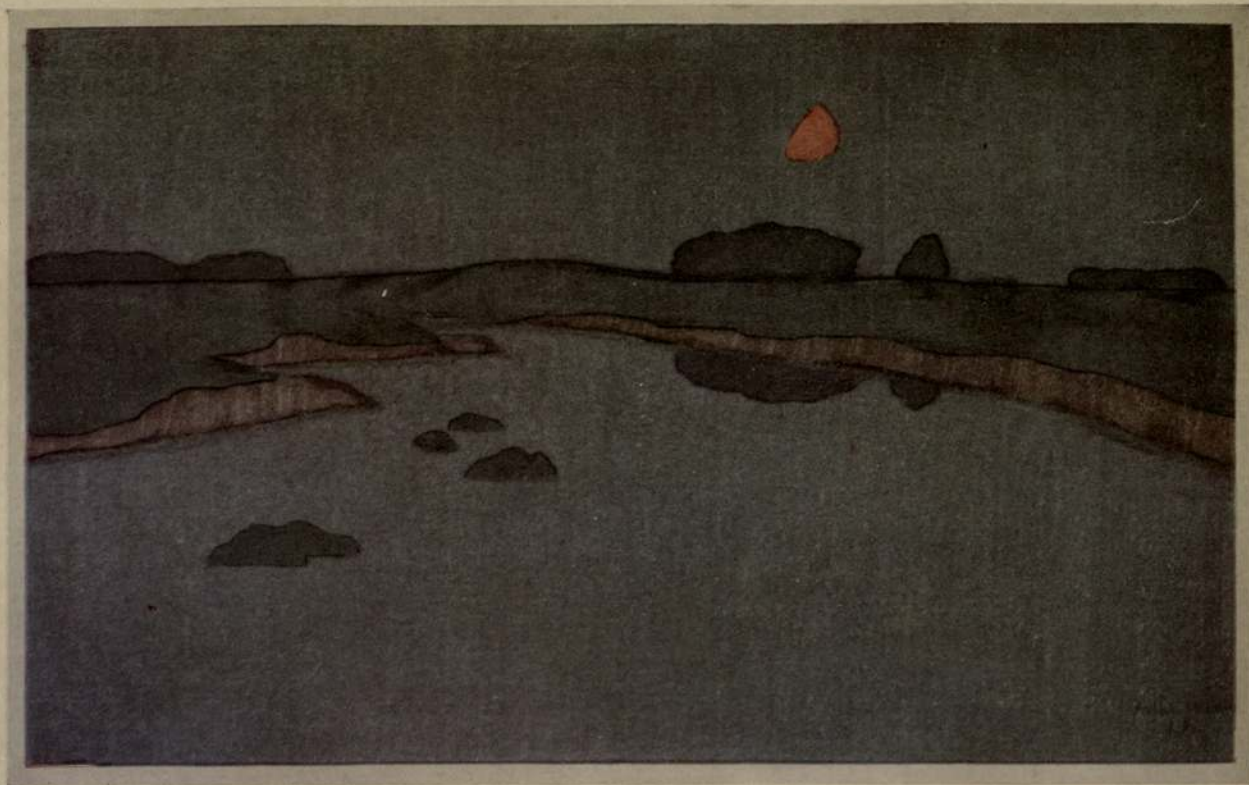
No. 63 COMPOSITION XVII—WOOD BLOCK PRINTING  
by students of Teachers College, Columbia University, New York





123

COMPOSI-  
TION  
XVII.—WOOD  
BLOCK  
PRINTING



No. 69. THE MARSH CREEK. Wood block print by Arthur W. Dow



4. Cut away the white spaces, clearing with a gouge. As the block is to be used as a stamp, the corners and all outside the design, must be removed.
5. Printing. Lay a piece of felt upon a slate, or upon a glass, pour a few drops of mucilage upon the felt, and mix with it either common water color, or dry color. Distribute this evenly with a flat bristle brush. Make a large pad, say 22 x 28 or 14 x 20, by tacking cambric upon a drawing board. Under the cambric should be one thickness of felt.

student is oil color thinned with turpentine (to which may be added a very little acetic acid and oil of wintergreen). This, when dry, is permanent and can be washed,—but not with hot water or strong soap.

With the design in fixed form upon the block, effort can be concentrated upon the make-up of the pattern, and the color-harmony. By cutting a block for each color the designer may vary the schemes almost to infinity. Where choices are many and corrections easy, invention can have free play.

Examples of students' printing on paper are given on page 121.

**PRINTING on PAPER.** A slightly rough absorbent surface prints well. Wrapping paper can be found in many colors, tones and textures, and is inexpensive. Damp paper will give clear-cut impressions.

Lay the paper upon the large pad; charge the block upon the small pad, and stamp the pattern. If the impression is poor, the cause may be:—(a) Face of block is not level; rub it upon a sheet of fine sand-paper; (b) large pad is uneven; (c) paper is wrinkled or is too glossy; (d) color is too thick or too wet. Practice will overcome these small difficulties.

**PRINTING on CLOTH.** The best effects are obtained with dyes, but their manipulation is not easy, and their permanence is doubtful unless one has expert knowledge of the processes of dyeing. The most convenient medium for the

**PICTURE PRINTING** is a more difficult, but fascinating form of this art-craft. Here must be gradation, transparent and vibrating color, atmospheric over-tone binding all together. For these qualities the Japanese process is best, with its perfected tools and methods. In theory it is very simple: The outline is drawn in ink upon thin paper, and the sheet pasted face down upon the flat side of a board; the block is then engraved with a knife and gouges, the drawing being left in relief; the paper is removed from the lines with a damp cloth, and the block charged with ink. Dry black mixed with mucilage and water, or any black water color will answer. For charging, the Japanese use a thick short brush,—a round bristle brush will serve the purpose. When ink is scrubbed evenly over the whole surface, the block is ready for printing. A sheet of Japanese paper, slightly damp-

ened, is laid upon the block and rubbed gently with a circular pad called a "baren." This wonderful instrument draws the ink up into the paper, giving a clear rich soft line.

The baren is made of a leaf of bamboo stretched over a saucer-like disk of pasteboard, within which is coiled a braided fibre-mat.

If the block has been properly cleared, and the baren is moved in level sweeps, the paper will not be soiled by ink between the lines. After printing a number of outlines the colors are painted upon them and color-blocks engraved. It is possible to have several colors upon the same board, if widely separated. Accurate registry is obtained by two marks at the top of the board and one at the side. The paper must be kept of the same degree of moisture, otherwise it will shrink and the last impressions will be out of register.

Dry colors mixed with water and a little mucilage, or better still, common water colors, may be used. No. 69 is a reproduction of a print made in the Japanese way. (In 1895 I exhibited at the Boston Museum of Fine Arts a collection of my wood block prints. Professor Fenollosa wrote the introduction to the catalogue, discussing the possibilities, for color and design, of this method, then new to America. In "Modern Art" for July, 1896, I described the process in full, with illustrations, one in color.)

**STENCILLING**, like wood block printing, invites variation of rhythm and col-

or combination. Stencilling is often done without sufficient knowledge of the craft. The student should understand that a stencil is simply a piece of perforated water proof paper or metal to be laid upon paper or cloth and scrubbed over with a thick brush charged with color; long openings must be bridged with "ties," and all openings must be so shaped that their edges will remain flat when the brush passes over them.



Stencil units are usually large, offering good opportunities for Subordination (page 23), Symmetry, and Proportion (page 28). A unit must not only be complete in itself but must harmonize with itself in Repetition (pp. 36, 66).

Stencils may be cut upon thick manila paper which is then coated with shellac; or upon oiled paper. If stencil brushes cannot be obtained one may use a common, round, house-painter's brush, wound with string to within an inch of the end.

Colors may be,—oil thinned with turpentine; dyes; or dry colors ground on a slab with water and mucilage. Charge the brush with thin, thoroughly mixed



pigment; if there is too much it will scrape off under the edges of the stencil and spoil the print.

Unprinted wall paper ("lining paper") is cheap and very satisfactory for stencilling. It should be tinted with a thin solution of color to which a little mucilage has been added. Use a large flat brush about four inches wide, applying the color with rapid vertical and horizontal strokes.

**COLORED CHARCOAL.** This is a further development of the method described in Chapter XIII (see also page 113). Lay in the picture in light values of charcoal, remembering that the color-washes will darken every tone. Too much rubbing with the stump gives mud-diness, too little charcoal may weaken the values and you will have a "wash-out." When the notan-scheme is right, the drawing may be fixed. It can be colored without fixing if the stump has been used.

Color is applied in thin washes allowing the charcoal texture to shine through. Notan plays the larger part, furnishing the structure of the composition and giving a harmonic basis for the color. If the hues are well-chosen, the result should be a harmony of atmospheric depth, with soft but glowing colors.

**PAINTING in FULL COLOR.** In a book devoted to the study of art-structure not much space can be given to comparison of mediums, or to professional prob-

lems of technique in advanced painting. They will be mentioned to show the unity of the progressive series, to suggest to the student some lines of research and experiment, and to help him in choosing his field of art-work.

**WATER COLOR.** This medium is used in many different ways: as a thin transparent stain, like the work of David Cox, Cotman, De Wint; as a combination of opaque color and wash, with which J. M. W. Turner painted air, distance, infinity, the play of light over the world; as flat wash filling in outlines, like the drawings of Millet and Boutet de Monvel; as the modern Dutch use it, in opaque pastel-like strokes on gray paper, or scrubbed in with a bristle brush; as premier coup painting with no outline (both drawing and painting) like much Japanese work.

In all these, line is the basis, whether actually drawn, as by Millet and Rembrandt, or felt, as by the Japanese and Turner. The best painting has form and character in every brush-touch.

**OIL COLOR.** Instruction in oil painting is usually limited to what might be called drawing in paint. Of course the student must know his pigments, how to obtain hues and values by mixing, how to use brushes, how to sketch in, and all the elementary details,—but this is but a beginning. Expression of an idea or emotion depends upon appreciation of art structure; the point is not so much

how to paint, as how to paint well. Artists often say that it matters not how you get an effect, if you only get it. This is misleading; it does matter,—the greatest painters get their effects in a fine way.

Methods of handling oil color may be reduced to two general classes: (a) the paint is used thin, as a wash, on a prepared canvas, or (b) it is put on in thick opaque touches. In either case the aim is the same—to paint for depth, vibration, illusion of light and color. If brush strokes are to be left intact, each of them must have shape and meaning,—that is, line; if color is put on in a thin wash, then its value, gradation, hue and texture are the main points,—and these belong to structural harmony.

Mural painting is the highest form of the art, demanding perfect mastery of Composition. The subject takes visible form in terms of Line; then is added the mystery, the dramatic counter-play of Notan, and the illumination of Color. The creative spirit moves onward absorbing in its march all drawing, perspective, anatomy, principles of design, color theory—everything contributing to Power.

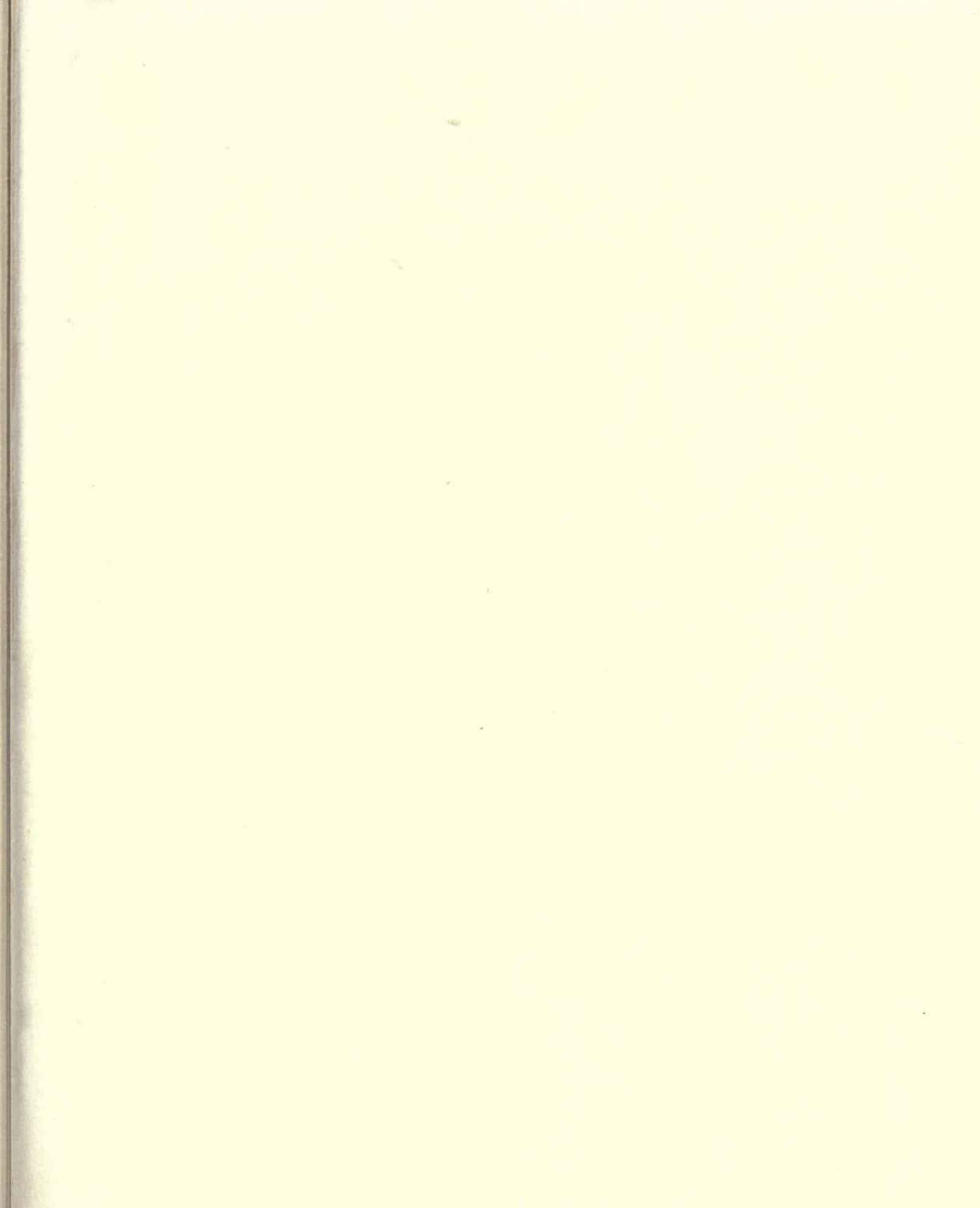
## CONCLUSION

I have not attempted to overthrow old systems, but have pointed out their faults while trying to present a consistent scheme of art study. The intention has been to reveal the sources of power; to show the student how to look within for the greatest help; to teach him not to depend on externals, not to lean too much on anything or anybody.

Each subject has been treated suggestively rather than exhaustively, pointing out ways of enlargement and wide application. If some subjects have seemed to receive rather scant attention it is not because I am indifferent to them, but because I did not wish to depart from the special theme of the book; some of these will be considered in future writings. The book will have accomplished its purpose if I have made clear the character and meaning of art structure—if the student can see that out of a harmony of two lines may grow a Parthenon pediment or a Sorbonne hemicycle; out of the rude dish of the Zuni a Sung tea-bowl, out of the totem-pole a Michelangelo's "Moses"; that anything in art is possible when freedom is given to the divine gift APPRECIATION

THE END









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