SPECIFIC ILLUSTRATIONS OF DEFINITE PROGRESSIVE STEPS IN THE DEVELOPMENT OF THE USE OF COLOR IN OCCIDENTAL PAINTING IN

EUROPE BEGINNING WITH GIOTTO

# SPECIFIC ILLUSTRATIONS OF DEFINITE PROGRESSIVE STEPS IN THE DEVELOPMENT OF THE USE OF COLOR IN OCCUDENTAL PAINTING IN EUROPE BEGINNING WITH GIOTTO

By

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#### PREPACE

The purpose of this thesis is to analyze some of the progressive stages of color development as they relate and contribute to the growth and understanding of color use in Occidental painting in Europe from the close of the Byzantine period to the early part of the twentieth century.

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# PAINTING OUTLINE

HOLLAND	FRANCE	GERMANY	ITALY .	CENTURY
	1	1	Cimabue	1300
			Ciotto	
			Fra Angelico	1400
			J. Bellini	
			G. Bellini	
			Botticelli	
-	-	-	Da Vinci	1500
		Durer	Michelangelo	
		parer	Titian	
		1	Giorgione	
			Raphael	
		Holbein	Corresgio	
		HOTOGIH	Tintoretto	
	10000		Veronese	
Hals		-	Veronese	1600
HELLO				
	Now and a			
Dambara 24	Poussin			
Rembrandt	Lorrain			
De Hooch		1 1 1 1 1		
Vermeer	Watteau	-		1700
	Chardin			
	Fragonard	-		1800
	David	1 6981		
	Corot			
	Delacroix			1900
	Rousseau	1		-,
	illet			
	Daumier			
	Pissarro			
	Manet			
	Degas			
	Cezanne			
	Sisley			
	Monet	1		
	Renoir			
Ton Cook		-		
Van Gogh	Gauguin			NY SHEET
	Seurat			2000
	Matisse			
	Picasso		The state of the state of	
	Braque	1	1	

# PAINTING OUTLINE

FLANDERS	SPAIN	LNGLAND	MUSSIA	CENTURY
Van Eyck				1300
				1500
Rubens Ven Dyke	El Greco Velasquez			1600
				1700
	Goya	Turner Constable		1800
6 6 1 0 6 4 5 9 9 1 1 5				1900
			Kandinsky	2000

#### INTRODUCTION

The purpose of this study is to elucidate some of the more definite, progressive stages of color use and development as it has been related to the art of Occidental painting in Europe. The close of the Byzantine period, with its precursory tendencies of the Italian Remaissance, will serve as a starting point in this survey.

An analysis of the use of color during the thirteenth, fourteenth, and fifteenth centuries indicates a very arbitrary approach to the subject. During this period, science had made no definite contributions toward a greater knowledge and understanding of color phenomena. This greater understanding came with the discoveries of Sir Isaac Newton, English philosopher and mathematician, who, in 1666, observed that a beam of white light when refracted by a glass prism, revealed the six definite spectral hues--red, orange, yellow, green, blue, and violet. This discovery resulted in the development of the physicists' theory of color. This theory, briefly stated, defines color as the residue following selective absorption and reflection of the refracted beam of white light.

Following Newton's discoveries, artists began experimenting with color, studying its infinite and varied possibilities for intelligent individual expression. Color now ceased to be incidental and subordinate to line. It developed a functionalism that combined the two elements, color and line, into one process--Cezanne being the chief exponent of this phase of color expressiveness.

Out of Cezanne's contribution to the understanding of color grew the Modernists' abstract conceptions, color expressing the non-objective, abstract harmonies.

#### PRE-RENAISSANCE PAINTING IN ITALY

#### CIMABUE (1240-1302)

Previous to the time of Giotto, color in painting was chiefly concerned with the arrangement of colors on a gold background. The traditions of painting having been derived from illuminated manuscripts and mosaics, the colors were applied in juxtaposition with a line between them as in the mosaic method.

Figure 1, Madonna Enthroned, by Cimabue, is an example of the use of color in the painting of the Byzantine tradition. The gradation of color was almost unknown at this time, and the colors used were orange, green, deep crimson, purple, blues, and heavy blue-blacks. These colors were laid on a gold ground, variously ornamented with chased designs. The greater portion of the pictorial art executed during the Byzantine era preceeding Giotto was done in this manner.

Cimabue was one of the outstanding workers in mosaic, and with him vanished the sharp contrasts of hard lights, half-tones, and shadows.

#### PROTO-REMAISSANCE PAINTING IN ITALY

# GIOTTO (1266-1336)

One of the first changes that Giotto made in his artistic



Madonna Enthroned, Cimabue, 1240-1302, Italian Figure 1





MADONNA AND CHILD GIOTTO DI BONDONE (1266-1336)

ITALIAN NATIONAL GALLERY

Figure 3



Figure 4



Figure 5



Madonna and Angels Fra Angelico, 1387-1455, Italian
Figure 6

methods, as a student of Cimabue, was to abandon the gold background of the Byzantine period and to substitute the blue sky of nature. This resulted in the introduction of lightened tones into the picture which wrought a relative increase in the amount of light portrayed in his compositions.

Ciotto did not advance such further than his predecessors in the use of color gradation. His paint was usually applied in broad flat washes, dependent upon carefully selected combinations and arrangements for the greatest degree of beauty of color, but without regard to the science of light relative to color. He introduced sculpturally rounded figures and a certain amount of natural detail into his compositions. He also substituted the portraits of actual men and women for the imaginary characters that had formerly been used in Byzantine compositions.

Figure 2, Saint Francis Preaching to the Dirac, and figure 3, Madeana and Child, are two examples of his work in which a greater variety and purity of color and tones than was in use by Cimmbuc and his predocessors is observed.

#### TRA AMGULICO (1387-1455)

Fra Angelico worked with a restricted range of colors that included the three pigment primaries, red, yellow, and blue-the yellow being grayed. In the early part of the Italian Remaissance much of the painting was little more than

tonal drawing with paint. Varioty of hum was expressed only through its application as the local color of various objects. Each form was modeled in tones of its local color.

Pigure 5, Annunciation, and figure 6, Hadonne and Angels, by Fra Angelico, are examples of his realistic subject matter wherein he achieved form by monochromatic modeling. The result is a sculpturosque effect.

#### GIOVANTEI REALLINI (1428-1516)

Giovanni Dellini was a painter of portreits and of religious and allogorical subjects. Giovanni, with his father Jacopo, his brother Gentile, and his brother-in-law Mantegna, exerted a great influence in the development of the Venetian style of painting.

The Bellinis discovered that reflex lights cast by objects outside the pictures might even throw color into the shadows. In the drapery of some of Giovanni's Madonnes, one even finds the technique known as 'pointillism.' This consists of placing tiny spots of color next to one another so that at some distance from the canves they appear to blend, giving a third color. Med and blue, for example, at some distance give purple. This technique, discovered by 13th-century Gothic glass painters of France, contrary to opinion, never influenced mosaic makers to any great extent. The Bellinis some to have rediscovered the technique. They used it sparingly, however, and unlike the 19th-century French Impressionists did not make it the specialty of an entire school.

Figure 7, Medonne, by Jacopo Bellini, figure 8,

Raymond S. Stites, The arts and Lan, p. 574.



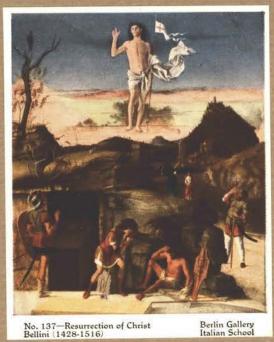
Jacopo Bellini, 1390-1470, Italian Figure 7



No. 31—Madonna and Saints Bellini (1428-1516)

Venice Italian School

Figure 8



Berlin Gallery Italian School

Figure 9



Figure 10

Madonna and Saints, figure 9, Resurrection of Christ, and figure 10, Madonna and Sleeping Child, by Giovanni Bellini, are examples of the early Venetians' use of color.

# JAN VAN EYCK (1385-1440)

Fifteenth century Flemish realism was expressed by Van Eyck in figure painting. With absolute fidelity to nature he portrayed the dress, ornaments, and physical characteristics of the men and women of his time in their natural environment. He was a precursor of the realism in painting that was to follow. He expressed a mastery of atmospheric and linear perspective which was far in advance of the understanding in Italy at the time. In his paintings he united the elements of the outdoors with those of interiors, combining the Madonna and Child theme with a distant sunlit landscape background. He sometimes combined the colorful sunlit landscape with the effect of the cathedral interior lighted by stained glass windows. Figure 4, The Annunciation, is an example of his use of color in painting.

#### ITALIAN RENAISSANCE

### BOTTICELLI (1444-1510)

Italian painters of the fourteenth and fifteenth centuries also achieved a variety of hue in their compositions,



Figure 11



MADONNA, CHILD AND ST. JOHN SANDRO BOTTICELLI (1446-1510)

Figure 12

ITALIAN LOUVRE, PARIS



Figure 13

only as it was applied to individual objects. Form was indicated by monochromatic modeling. Botticelli used blues, yellows, pale greens, and grays.

Figure 11, Magnificat, figure 12, Madonna, Child and St.

John, and figure 13, Spring, by Botticelli are illustrative
of this artist's method of modeling form by monochromatic
sequences of tone which emphasized the linear rhythms of
his figures.

In general, the environment of the Florentine painters was not as conducive to color study as that of the Venetians. They first sought understanding through the study of the effects of light on curved surfaces. Da Vinci observed that hue in the lighter planes had a different intensity from the hue in shadow. However, the generally accepted manner was to paint the high lights white, the shadows brown or black, and the half-tones the local color of the objects.

# MICHELANGELO (1475-1564)

Michelangelo employed large areas of red and blue tones without any particular regard for the juxtaposition of color combinations. The paintings of Michelangelo and Botticelli expressed a sculpturesque effect due to the fact that one was essentially a draftsman and the other a sculptor. Their color was expressed in sequences of tonal modeling.

Figure 17, Creation of Adam, by Michelangelo, is

expressive of the sculpturesque manner of modeling form by monochromatic sequences.

#### DA VINCI (1452-1519)

Da Vinci's paintings are expressive of the Florentine intellectual search for beauty, in which is to be found the harmonic relationship of science and art. He observed that the greatest beauty of hue was to be achieved by contrast. He was of the opinion also, that color harmony was entirely dependent upon visual phenomena. In this field of thought he was one of the first exponents of the psychologists' theory of color, advocating the necessity of four visual primaries, red, yellow, blue, and green.

Figure 14, Madonna of the Rocks, and figure 15, Beatrice d'Este, are examples of Da Vinci's color expression in painting.

His so-called "elementary" colors Leonardo listed in their proper tone values from white through yellow. green, blue, red, and black. He noticed that a glaze of red light upon blue would create purple; yellow on blue, green; and red and yellow, a new color for which he had no name, but which we know as orange. Leonardo also discovered that red and yellow have their greatest luminosity in light, and that green and blue appear most pleasing in the shadow ................. Among his experiments, one picture now in Vienne, actually shows the use of points of color to give the effect of greater luminosity, much as they were employed by the Impressionists..... Leonardo observed the tonal and color effects in atmospheric perspective. He noticed that the outlines of opaque bodies appear proportionately less distinct as those bodies move farther from the eye.2

<sup>2</sup> Ibid., pp. 603-604.

Da Vinci believed that the world of art should be put in an order by beginning with the scientific observation of nature's details and continuing on toward the divine moment of inspiration.

#### TITIAN (1477-1576)

Titian, of the Venetian school in Italy, achieved a warm but subdued effect in his canvases. His shadows are brown, and the whole effect is one of golden illumination. Although the colors are individually of low intensity, they are made to appear much purer and brighter by their contrasting relationships. He introduced yellow instead of white into highlights.

Figure 18, Lavinia, figure 19, Danae, and figure 20,

Assumption of the Virgin, by Titian show how he achieved
the effect of illumination and greater range of intensity
and hue by juxtaposing whites, blues and blacks in contrasting
relationships with areas of yellow, orange, and red. Titian
also used color to express atmospheric perspective in his
compositions by using cool, grayed colors in the distance
and warm colors in the foreground.

### GIORGIONE (1478-1510)

Giorgione expressed a delicate lyricism in his paintings which was congenial to the Venetian spirit of luxurious langour and holiday relaxation. He used color with a new degree of emotional expressiveness and was one of the first







No. 83—Hans Imhoff Albrecht Dürer (1471-1528)

Prado, Madrid German School

Figure 16



No. 145—Creation of Adam Michelangelo (1475-1564)

Sistine Chapel, Rome Italian School

Figure 17



Figure 18

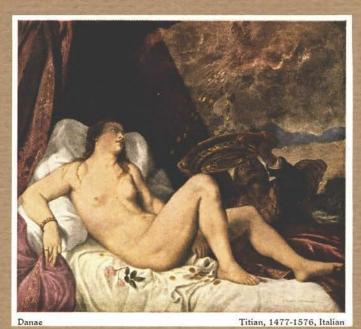


Figure 19



Figure 20



Figure 21



Figure 22

Venetians to employ color to build the forms within his compositions. Differing greatly from the Byzantine use of color, Giorgione organized volumes and planes in space, using color to build each part. This was later a fundamental thought in color use by the Post-Impressionists.

Previous to Giorgione, most painters had employed light and shade as a means of representation and considered it a technical resource unrelated to color. They painted the lighted areas of an object with its local color, but the darker areas were usually painted a gray-brown. Giorgione observed that within shadows is a variety of huss. His canvases depict a range of colors, both in the lighted and shaded planes of forms. A warmth and glow is expressed in his pictures with a colorfulness quite in harmony with his environment and in advance of the general understanding of color in his time, as may be seen in figure 21, Adoration of the Shepherds, and figure 22, The Concert.

### RAPHAEL (1483-1520)

Rephael used color, not with the thought of variety of hue, but as a means of monochromatic modeling of form.

Color variety was introduced only as it was applicable to individual objects. He wixed white or yallow with pure hue to attain tints, and black was added to hue to achieve shades.

In order to give expression to sens of his more dramatic

themes, he used a concentrated light effect which necessitated a greater range of close value sequences and gave the impression of differently lighted areas.

Figure 2), Sistine Madonna, and figure 24, The Transfiguration, by Raphael express his use of color. The Transfiguration, and figure 25, The Holy Right, by Correggio are expressive of concentrated light offect, achieving a dramatic feeling in thought and color. They have expressed roundness of form by realistic modeling in memochromatic sequences. The tenal range within the cenves is from blue and yellow-whites to off-blacks.

### TIMTOMETTO (1518-1594)

In Venice, the art of sail painting attracted the interest of such artists as Titian and Tinteretto for a time. The gaily decorated galleons furnished the first surel canvases on which were composed the glorious histories of a spleadid past. Besides sail pointing, the mosaic art offered a further opportunity for the Venetians to indulge in color.

Tintoretto recognized the significence of black and white pigments and the nocessity of their presence on his palette. With them he attained a variety of shades and tints necessary for modeling form. He preferred scabre colors. His compositions appear gray and retiring compared with the actual glow in nature, as may be observed in figure 27, Yenus and

# Mars with the Three Graces, and figure 28, Music.

### VERONESE (1528-1588)

The subject metter of Veronese was usually coromonial occasions or historical episodes within halls filled with richly costumed people. His conveces portray an atmosphere of artificial stage-setting--a contrived grandour, as in figure 29, Captain of Capernaum, and figure 30, Feast of Levi.

Vereness schieved a brilliant effect of color by variety and apposition, even though his hues are seldom bright. He used primary tints and highlights sparingly. Within his compositions his figures are enveloped in atmosphere, bathed in light. His paintings charm and selight the eye, but rerely do they appeal to the intellect. The shadows are transparent and colorful, as expressed later in the paintings of the English landscape group and the French Impressionists. He used the method of justaposition of various intensities of contrast in hue. In this respect he was in advance of his time.

#### SINTERNIH CHWUNY GERRAN MEALISM

### DUNCER (1471-1528)

Durer, the German engravor and painter, wes influenced in his painting by the Italians. He journeyed to Italy a number of times during the course of his eareer where he came

in contact with Giovanni Bollini.

Sidney Colvin has written regarding burer's painting,
The Adoration of the Virgin, which now exists in a greatly
injured state:

Of all Durer's works, it is the one in which he most deliberately rivalled the combined spleadour and play-fulness of certain phases of Italian art. The Venetian painters assured him, he mays, that they had never seen finer colours. They were doubtless too courteous to add that fine colours de not make fine colouring. Even in its present ruined state, it is apparent that in spite of the masterly treatment of particular passages, such as the robe of the page, Durer still lacked a true sense of harmony and tone-relations, and that the effect of his work must have been restless and garish beside that of a mater like the aged Bellini.

Figure 16, Hens Imaoff, is an example of his realistic manner in portraiture.

## HOLIELIN (1497-1503)

No painter was ever quicker at noting paculiarities of paysiognomy, and it may be observed that in none of his faces, as indeed in mone of the faces one sees in nature, are the two sides alike. Yet he was not a child of the loth century, as the Venetians were, in substituting touch for line. We must not look in his works for modulations of surface or subtle contrasts of colour in juxtaposition. Mis method was to the very last delicate, finished and smooth, as became a painter of the old school.

Holbein's subject matter was chiefly portraiture, in which he had a scrupulous regard for truth of actail and

<sup>3</sup> Sidney Colvin, "Durer," The Snovelobaccia Britannica, 11th saition, VIII, p. 700.

<sup>4</sup> Sir Foseph Archer Crowe, "Molbein," The Encyclopaedia Britannica, 11th edition, XIII, p. 980.

and accessory in Grawing, as in the printing, figure 26, The Merchant of Gisze.

### SUVERTREATH COLUMN PAINTING IN HOLLAND

### REMBRANDT (1606-1669)

Rembrandt's use of color was very much like that of the Italians, non-structural monochromatic modeling plus the effect of concentrated light. In this manner of color use he achieved dramatic expression with a range of values crowded toward the light or toward the dark as his necessary effect demanded. His pointings express the appearance of a greater range of pigments than he really possessed as compared to the range found in nature. His palette consisted of light, cool yellowe, through manner reds, and a range of grayed oranges, into black, as may be observed in figure 41. A Polich Nobleman, and figure 42. The Might Batch.

Scholary differentiate setween four phases of Rembradt's use of color. In the first period, before 1635, the artist used maturalistic local colors like those of the Italians in the school of the Carracci. Between 1636 and 1656, he subdued the brilliant local colors of objects by throwing over them a heze of gray or brown tones and developing the shadows of his pictures. In the third period, efter 1656, he renched the greatest dramatic heights, pointing up great areas of brown or gray with some brilliant tone caught in a ray of manight. In the firml period, proken and scintillating eclor like that in the works of the mineteenth century French Impressionists dominated his light and shade in such a way that it seems as though the master must have lost himself in a systical addration of light. In respect to color, the mature Rembrandt was no naturalist. We distilled from the colors of nature their essence and



Figure 23



No. 133—The Transfiguration Raphael (1483-1520)

Vatican, Rome Italian School

Figure 24





The Merchant Gisze



Figure 27



Figure 28



No. 131—Captain of Capernaum Veronese (1528-1588)

Madrid, Prado Italian School

Figure 29

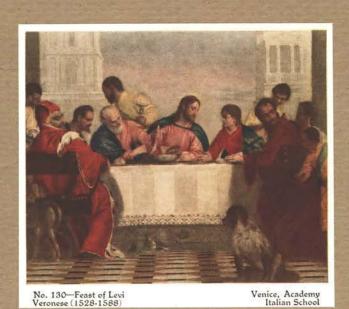


Figure 30

chose the warm golden tones to suggest the good life. He does not move far from brown earth pigments, which form his backgrounds even in the sky, where a cool gray takes the place of the usual blue. In this gray-brown atmosphere brilliant flashes of red, yellow, purple, or green emerge to thrill the senses. The essential color scheme is that of the cathedral interior, with its steined-glass windows. The depth of the shadows arises in great part from the contrast afforded in the flashes of brilliant hues.

# DE HOOCH (1629-1677)

The work of De Hooch, a painter of Dutch genre subjects, is recognized by a richer and more intense range of hues and the effect of clearer sunlight in his compositions than is to be seen in the compositions of Rembrandt. De Hooch, unlike Rembrandt, who concentrated the light in his compositions to illuminate and give dominance to a face, used the effect of sunlight to illuminate courtyards and room interiors, bathing them in a rich golden glow. He used yellow to express sunlight but did not introduce its complementary hue into the shadows, as may be observed in his figure 43, The Pentry.

# VERMEER (1632-1675)

Vermeer also was a painter of the effect of light.

This effect was achieved by concentrating the light and keeping the darker areas in their right relationship in hue, value, and intensity. As the lighter areas were increased in intensity, the local color of a form was used nearer the

<sup>5</sup> Stites, op. cit., p. 636.

dark, limiting his value scales.

His palette included pale lemon yellow, cobalt and ultramarine blues, whites, delicate grays, black, reds, and Naples yellow.

Vermeer's lights are silvery in tone and his shadows pearl-color. There is no absolute darkness in his pictures -- no slurring, no juggling. Light is everywhere, and even the chair, table, or spinet in shadow, stands as clearly revealed as if beside a window. But at the same time, each object has its just amount of shade, and its reflections merge into the surrounding luminous atmosphere. It is to this faithful portrayal of light that the harmony of Vermeer's colors is attributable. In his pictures, as in nature, antipathic colors, for example his favorite blues and yellows, never jar. He harmonizes tones which are in themselves discordant, passing from the tenderest minor key to the richness of a full major chord.

Vermeer evidently had an inkling of what the modern impressionists have discovered; namely, that there is less luminosity in white than in blue. White is dead, flat, opaque; while blue, thinly laid, is transparent, vibrant, scintillating. There was certainly no painter of the time, not even Rembrandt with his sharp contrasts, who gained greater height of light than Vermeer; and something of it was due to his use of blue. 7

Figure 44, Young Noman with a Water Jug, is expressive of Vermeer's use of color.

#### SEVENTEENTH CENTURY PAINTING IN FRANCE

# POUSSIN (1594-1665)

Poussin was a painter of imaginative landscapes and

<sup>6</sup> W. Burger, "Vermeer," Masters in Art. part 54. Vol. 5, (June), pp. 26-7.

<sup>7</sup> John C. Van Dyke, "Old Dutch and Flemish Masters," Masters in Art. part 54. Vol. 5, (June), p. 32.

figure compositions, the inspiration for which came from
the Italian landscape, Biblical stories, battles, bacchanalian subjects, and classical mythology. The figures in his
paintings have been subordinated to the dominant theme of
the landscape. He was a student of the high and low relief
sculpture in Rome and was influenced by the paintings of
Raphael and Titien. Although living in the age when most
French artists spent much time in Italy, Poussin is considered
the father of French landscape and was the founder of the
French classical school. His painting is expressive of coldness, grandeur, formalism, academic in fineness of sensibilities and definite form, whether expressing a Biblical or
bacchanalian theme, and was original in expression. He used
color arbitrarily, and without regard to its functional
possibilities in the modeling of form.

# LORRAIN (1600-1682)

Lorrain was greatly influenced by Italian painting, using the classical architecture and landscape as backgrounds for his figures. The landscapes are reputed to be the better part of his works, often expressing a fine sense of sunlight. Throughout his paintings there is too such concern for detail and a feeling of static pose against a stage-set background. The qualities are more applicable to decoration than to realism, partly due, no doubt, to his early work as apprentice

to a decorator.

He generally sketched whatever he thought beautiful or striking, marking every tinge of light with a similar colour: from these sketches he perfected his landscapes. His skies are aerial and full of lustre, and every object harmonicusly illumined. His distances and colouring are delicate, and his tints have a sweetness and variety till then unexampled. He frequently gave an uncommon tenderness to his finished trees by glazing.

Figure 40, Rest on the Flight, is expressive of Lorrain's use of color in painting.

#### SEVENTEENTH CERTURY PAINTING IN FLANDERS

# RUBERS (1577-1640)

Most of the painters of this northern country cared
little for decorative effects and the colors used were of
rather low intensity, in harmony with their environment.
Ruben's colors consisted mainly of deep blacks, crimson,
yellows, and blues contrasted with light yellows, white, and
vermillion. He also introduced into his compositions purplish
grays, light blues, and creamy flesh tints.

Figure 33, Decent From the Cross, figure 34, Portrait of the Artist, and figure 35, Flight into Egypt, are expressive of color used by Rubens which gives effects of concentrated areas of light by strong contrast of tones to achieve a more dramatic effect.

<sup>8</sup> William Michael Rossetti, "Claude of Lorraine," The Encyclopaedia Britannica, 11th edition, VI, p. 463.

### SEVENTRENTH CENTURY PAINTING IN SPAIN

# EL GRECO (1548-1625)

El Greco ignored the palette of his Byzantine tradition and through his original imagination introduced a more brilliant range of hues and tones that include royal blue, pale rose, lemon and other yellows, green, and pinks. He achieved unity in color composition through the use of a greater range of colors and by introducing them in sequences in the modeling of form.

Figure 31, Holy Family, and figure 32, Cardinal Inquisitor, by El Greco, indicate a change of hue in his color gradations from light to dark. In this respect he was in advance of his contemporaries who still adhered to a more sculpturesque and monochromatic means of modeling. A dramatic feeling is achieved in his compositions by contrasting warm and cool colors in their strong dark and light tones.

# VELASQUEZ (1599-1660)

Velasquez lived in an age of realism and readily adapted himself to the spirit of the time. His works are without social message, consisting chiefly of figure compositions of friends, nobility, and historical incidents executed in neutralized and sombre colors.

Figure 36, The Spinners, figure 37, Surrender of Breda, figure 38, Infanta Maria Theresa, and figure 39, Lady with



Figure 31



Figure 32



DESCENT FROM THE CROSS PETER PAUL RUBENS (1577-1640)

FLEMISH ANTWERP CATHEDRAL

Figure 33



Figure 34



Figure 35





Figure 37





Figure 39



Figure 40



No. 48-A Polish Nobleman Rembrandt (1606-1669) Figure 41

Hermitage Dutch School



Figure 42



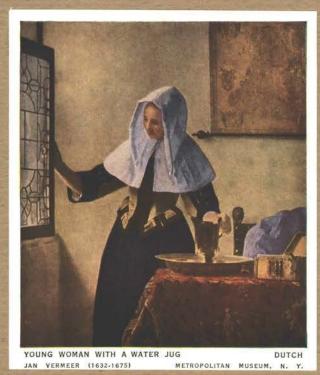


Figure 44

a <u>Fan</u>, by Velasquez, show a range of grays that wore composed not of black and white, but of hues which render them colorful. His forms do not express much depth because of the lack of change of hue, value, and intensity; although, he keeps the cool colors in the background and brings the warmer, stronger colors forward.

The later period of Velasquez shows color that is thinner and more luminous, beving abandoned the deep blacks and - dramatic contrasts of value of his carlier era. Historians divide Velasquez's career into three definite periods. The early period, in subject matter, is chiefly street scenes, and commonplace objects, such as puttery, fish, and fimite. His manner of working during this time was quite photographic and characterized by the use of centrasting areas of light and shadow. The next period follows his first visit to Italy where he studied the principles of composition as they hed been devised by the Italians. He also showed special attention to the works of Titien, Tintoretto, and Veronese. Out of those influences developed the last period wherein Velasquer found himself. He became someorned with the fasitive qualities of light as it envelopes forms, and affects surfaces. Light and atmosphere being in a constant state of movement, he observed, continously altered the outward appearance of those surfaces.

#### EIGHTEENTH CENTURY PAINTING IN FRANCE

### WATTEAU (1684-1721)

Watteau was one of the first painters who experimented with prismatic colors. He gave equal significance to technique and choice of hue. His experiments were based on the findings of Sir Isaac Newton, who, in 1666, discovered the connection between color and the refraction of light.

Previous to his time white light was assumed to be homogenous. By the use of a prism Newton refracted a beam of white light into an indefinite number of spectral hues. The differences in the degree of refraction distinguished each hue. When the ray of light has undergone the separation, each of the component elements of white light retains its characteristics, and also retains its own refractive power.

He was supreme in his command of those gold and silver tones which with ineffable charm pervade every scheme of color in his compositions. Rubens was his first colormaster, and as red is Ruben's hue, so red, silvered down to palest tints of pink, is Watteau's also. Veronese gave him saffron and yellow, hence we see so many of his ladies arrayed in those colors. Titian was his guide in his "carnations," his flash tints--subtle reality with a gloss of gold upon it, the "amber carnations" of the Venetian masters. But one of his colors was entirely his own, his pearly, creamy white, which like an opal takes reflections from all around ...... He painted the color of the air, not merely objects. His richest effects are those of reflection, and the gradation of flashes of light through breaks in thick foliage. His use of broken tones is as much a characteristic as his exuberance of vivid color. The irridescence, so to speak, of his delicate and changeful hues is astonishing. The lighting of his pictures has all the



Figure 45

brilliant effect of the footlights at a theatre, the illumination seeming to issue from some source between the beholder and the scene.

Figure 45. The Fete, is a good example of Watteau's use of color in pointing the French aristockey against French postoral settings, costumed ladies and gentlemen dancing, gionioing and remanding in ideal landscapes.

### CHARDIN (1699-1779)

Shardin knew how to render the delicate grays produced by light, the reflections and depth of ethosphere. He is one of the first French artists who devoted his art to the life around him by revealing the simple decestic life of the eighteenth century in France.

Figure 46, <u>Kitchen Maid</u>, and figure 47, <u>The Mouse of Cards</u>, are expressive of Chardin's use of color.

<sup>9</sup> Edgewibe Staley, "Watteau," Masters in Art. part 39, 4, p. 34.

Oherles Normand, "The art of Chardin," Masters in Art, part 69, 6 (May, 1905), pp. 30-34.



Figure 46



Figure 47

#### FRAGONIKD (1732-1806)

In subject matter Fragonard was attracted to the theatre, portraiture, glorious trees, subjects of gallantry and the court life of the Du Berry period. Figure 48, L'Etude, is an example of his portraiture as it was influenced by court life. In his last period he worked for simplicity and more light and solidity in his paintings of subjects from the lower classes.

Fragonard employed delicate tones of hue in the portrayal of his subjects of court life. He expressed form by modeling in monochromatic sequences, as did the Italians in the early period of the Renaissance.

## DAVID (1748-1825)

David was leader of the classisist movement in France. He developed the classical ideals of the revolution and was a devotee of the Antique-Greco-Roman sculpture period. He subordinated the use of color to line and photographic modeling in light and shade. Figure 51, has hecemier, is expressive of his painting in areas of unbroken solor, which lack life, vibration, and is weak in chroma.

#### MICHTERINE CERTURY PAINFILE IN SPAIN

#### GOYA (1746-1828)

Goya's works represent a wide range of subject satter,

including country scenes, portraits, strange fautasies of grim and morbid tendencies. Within his conveses is a crispness and accent, and a feeling of strong pattern in the elements of decign. Embodied in his compositions are textural qualities, the play of light on surfaces and the changing vibrant character of details.

Vithin a vast repertoire of paintings, drawings and prints, Goya unleashed his fury and sardonic interpretations over the injustice, selfishness, and lack of values in the character of his countrymen.

Coya's choice of hues were as varied as his choice of subject matter, although forms were modeled by monochromatic sequences. Strong contrasts of color mided the expression of his intense feeling or response to subject matter, as in figure 49, The Enter Carrier, and figure 50, Pamily of Charles IV.

# LINDSCAPE PAINTING IN ENGLAND TURKER (1775-1851)

Turner devoted himself to the study of light, atmosphere and movement. The great aim of his artistic ambition was to gain a thorough knowledge and attain a complete representation of light in all its phases.

Turner in one principle worked with delicate blues, greens, and whites, keyed with a touch of rich brownish crimson.



Figure 48



Figure 49



Figure 50



Figure 51

In another principle he combined rich autumn colors in a foreground with a brilliant blue sky. He graded the middle-ground with pearly tints to hold the main contrast of his scheme together.

His work may be divided into two periods: the first, wherein he simed chiefly at form, and painted in dark tones: the second, in which color was given primary consideration. Turner was the first artist who represented the sun shining through mist and its colorful effects upon the landscape and marine subjects, as in figure 52, The Fighting Temeraire.

## CONSTABLE (1776-1837)

Constable observed in his realistic study of nature that the planes of forms are not one flat color but are broken up into many spots of various hues. Upon his discoveries and uses of color the Impressionists based their early experiments.

Previous to Constable, landscape had been employed as backgrounds for figure subjects. The landscapes were painted indoors in browns and very grayed hues. However, the Frenchmen, Lorrain and Poussin in the seventeenth century contributed to a great advance in the art of landscape painting, although they were influenced by the classicism of the Italians. It remained for Constable to develop this phase of art, as illustrated in figure 53. The Cornfield.

<sup>11</sup> Faber Birren, The Story of Color, p. 125.



No. 125—The Fighting Temeraire J. M. W. Turner (1775-1851)

National Gallery, London English School

Figure 52



Figure 53

His paintings express with force and compositional truthfulness the tone, color, movement and atmosphere of the scenes represented. His treatment of skies as a compositional quantity is quite notable.

#### THE ROMANTIC NOVEMBER IN FRANCE

The Resentic movement in France followed the French Revolution, which to a great extent broke up the old traditions and impositions, and gave liberty to the desire for self-expression. It was not confined to France, but had its origin in Goethe's writings and reached France through Byron and Scott of England, who were inspired by him. Victor Rugo and other poets, and Serieault and Delacroix, the artists, gave the movement expression in France. It brought recognition of freedom from the past and the possibilities of the present. It is characterized by emotional self-expression and response to nature, as opposed to false, rigid formalism and restraint, the week, insipid, cold, lifeless, classical and impersonal.

Its followers studied habens and the English artists, and used color, as well as line, form, and composition to express light, atmosphere, movement, dramatic motion, and sensation to an extent not done before in France. For subject matter they were chiefly concerned ith amdieval stories, or the dramatic happenings of the present, following

the theres of nevelists and poets.

In this movement lay the roots of the Expressionists, as in the soft grettiness of the seventeenth century art lay the cause for the rigid severity of the classical reaction, and in this cold and impersonal classical expression is found the reason for the emotional art of the Romanticists.

#### DELACIOIX (1798-186))

The expression of Delacroiz was dynamic, through vivid color, rapid movement, tragedy and freedom. He wished to parellel in art the picturesque drama of literature. Delacroix is important in art as the exponent of the Romantic ideals and a precursor of modern art. He sought to develop the dramatic possibilities of pure color and strong contrasts. His use of color was a decided change from the monochromatic modeling of the Italians and the colorless photographic realism of the French Classicists. Delacroix wrote.

"From my window I see a joiner working, maked to the waist, in a gallery. Comparing the color of his body to that of the outside wall, I notice how strongly the half-tones of flesh ere colored as compared with inert matter. I noticed the same thing yesterday in the Place Saint Sulpice, where a leafer had climbed up on the statues of the fountain, in the can. Dull crange in the carnations, the strongest violets for the east shadows, and golden reflections in the shadows which were relieved against the ground. The orange and violet tints dominated alternately, or mingled. The golden tone had green in it. Flesh only shows its true color in the open air, and goove all in the sun. When a man

puts his head out of the window he is quite different to what he was inside. Hence the folly of studio studies, which do their best to falsify this color."12

Delacroix was a student of Chevreul's color theories, an explanation of which may be found under the heading of French Impressionism and Chevreul, in this text.

THE BARBIZON PAINTERS AND PRENCH NATURALISM

and includes painters, writers, and critics. The painter group, frequently called the School of Poetic Landscape, revolted against the Academy at the time of the revolution. Until this time figure painting had constituted the best works of art. This group of landscape painters worked outdoors from nature in the forest of Fontainebleau near the village of Barbizon. They endeavored to depict nature faithfully and interpret its moods, often becoming photographic in their expression through copying nature and its detail. These realistic tendencies were influenced by the introduction of photography and by Constable's use of juxtaposed color. Rousseau was the leader of this group which included Millet and Corot.

## COROT (1796-1875)

Corot went outdoors and painted effects as he saw them,

<sup>12</sup> Ibid., p. 129.



Figure 54

not as he imagined them to be. He was influenced by Constable and was interested in air and sunlight, color, tone, and spirit in relation to form. He became more deeply interested in tone to the extent that his landscapes are expressions of atmosphere and the forms are softened and lost. His landscapes are not reproductions of nature but are idealized and imaginative.

Figure 54, Dance of the Eyepha, by Corot, is a good example of his landscapes pointed in soft, gray-groups, with bits of a complement maded in the figures that dence, play or row against sylven scenes. He expressed a range of color and values comparable in effect to that of mature.

#### RUMBARAU (1812-1867)

Rousseau, a memoer of the Berbixon school of painters, and one of the leaders of French naturalism worked and studied outdoors. He expressed the strength of nature by often using the oak tree as his these, as in figure 55.

Edge of the Noods. He portrayed a nermal range of color values and intensities in his compositions. Like Hillot, he painted in planes of broken or juxtaposed spots of color.

### MILLET (1814-1875)

Millet was a painter of French passant life. His landscopes were secondary in importance to his figures, serving



Figure 55



WOMAN CHURNING JEAN FRANCOIS MILLET (1814-1875)

Figure 56



No. 157—Going to Work Millet (1814-1875)

Glasgow Gallery French School

Figure 57

as backgrounds for their activities. Color, to Millet, was sembre and heavy, in harmony with his subjects. His colors are low in value and intensity and in some instances appear quite dull as though too many pigments were employed in his mixtures. His color relationships of grayed and intense pigments also cause this appearance of dullness in his compositions. Figure 56, Woman Churaing, and figure 57, Going to Work, by Millet are expressive of his use of color.

#### DAUMIER (1518-1879)

Deusier portrayed the follies, legal hypocracy, and politics of his time. He was a professional cartonist and satirized the political life of Paris in painting and lithograph. His paintings are simple, strong drawings with the addition of a very simplified polette of color, making for a unity and solisity of artistic expression of interest aside from the propaganda thought. As a painter he was one of the pioneers of naturalism. His palette often consisted only of yellow other, burnt sienna, and black. Figure 58, The Basherroman, is expressive of his use of color. This composition is deminently warm through the use of grayed yellows and grayed oranges. An accent of cool color is expressed by smaller areas of grayed green.

### FREMON IMPROSSIONION AND UNLVREUL

Impressionism hyought about an enlarged understanding

and use of color contrast and the distinction between the problems of the additive color combinations on the reting and the subtractive color combinations of mixed pigments. To Chevroul, director of the Chemical Department of the Government Cobleins Manufactory in Paris, is due the credit for the discovery and formulation of the original statements regarding the principles of color contrast.

Chevroul noted that in seeing colors the eye presented certain subjective reactions which influenced appearances. Immediately he forcess the necessity of dealing with color as a visual phenomenen. We studied the afterisage with a vengeance, prepared charts and diagrams to explain every minor detail. He cained scintillating effects through the juxtuposition and diffusion of color areas (which led to pointillism).

Color-contrast, briefly stated, is a mutual modification of jurtaposed, unrelated bues, increasing the apparent difference between them. The after-image, to which Chevroul devoted intensive study, may be defined as a sensation occurring after the stimulus scusing it has cossed. The visual after-image is complementary to each color in the original sensation.

The Impressionists, Monet, Lenot, Ronoir, Decas, Sisley, and Pissarro, contributed greatly to the scientific view and use of color. They expressed espects by justaposed spots or lines of pure hue. Within their compositions the surfaces bathed in sunlight were expressed with yellow pigment,

<sup>13</sup> Ibid., p. 137.



Figure 58

and the shadows were violet-blue, in harmony with the physicists theory of color, that shadows are complementary in hue to the light source. The Impressionists were intensely interested in the manner in which light affected surface color.

### MAMMY (1832-1883)

Manet's paintings are solidly constructed, straightforward in conception, and painted with freedom and directness. He advocated and tried to accomplish in his paintings
the rendering of a momentary vision of light, of life, and
of movement.

He abandoned the conventions of outlines and modeled his form with subtle gradations that "malted" together in the eye of the observer. He was attracted to illumination as a major rather than an accessory quality in beauty. 14

Although considered as the leader of the Expressionist movement, he was never a sember of the group. Figure 59, The Bost, and figure 60, The Breekfast, by hand are expressive of his use of color in painting.

#### MEGAS (1834-1917)

Degas was successful in combining line and color. He knew how to deal with the substance and density of hue, as it related to novements and textures of form, which gave life to his characters and scenes. In subject matter his

<sup>14</sup> Toid., p. 128.

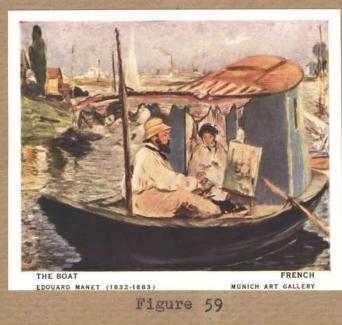




Figure 60

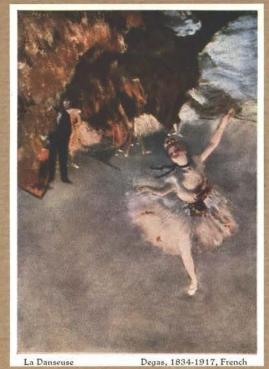


Figure 61

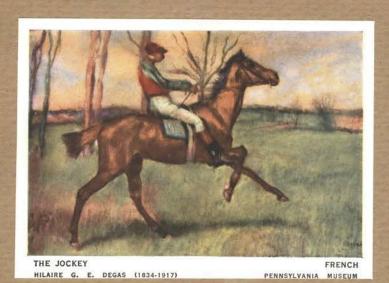


Figure 62

works include ballet dancers, jockeys, actors, washerwomen, riders, and horses. Figure 61, La Danseuse, and figure 62, The Jockey, express his use of color.

### MONET (1840-1926)

One of the most distinctive phases of Monet's composition is the analysis of shadows. He perceived that local color was quite illusive and that shadows were not the absence of light but were areas of lesser illumination. The color of the shadows in sunlight was complementary to the source of light, a violet-blue. Previous to him those areas were painted in a sombre conventional color tone for the purpose of forcing into relief the brilliance of the more luminous regions. He expressed examples of the theory we know as the theory of complementary color. He observed and understood the reaction of colors, one upon another, when placed in juxtaposition. The technical ancestry of Monet includes Turner, Constable, Chardin, Delacroix, and Watteau.

Figure 68, Church at Vernon, figure 69, Trees Near the Sea: Bordighera, by Monet, and figure 67, A Sunny Landscape, by Sisley, are expressive examples of the Impressionists' use of color in painting.

## RENOIR (1841-1919)

Renoir was responsive to light and the manner in which

it affected surfaces. He handled color and effect of light with feeling and expressed in his pictures a human warmth and joy in living.

Renoir, working with separate brushstrokes, produced dominant and radiant tones by a shrewd sequence of hues. Values were replaced by color contrasts. All shadows were luminous and hued. He gave attention to mass, achieved rotundity in his forms and built luminosity by clever analogies. 15

He painted with a full, generous brush, indicating form, color and light without articulating too clearly, as in his figure 70, Au Loge, figure 71, La Moulin De La Galette, and figure 72, Young Noman Reading.

#### NEO-IMPRESSIONISM

## SEURAT (1859-1891)

Seurat was a student of Chevreul's color theories. He built up his canvases by the juxtaposed spotting of pigments. The colors of his palette corresponded to the dominant colors of the spectrum: red, orange, yellow, green, blue, indigo, and violet.

The divisionism of Seurat and Signac, on the other hand, was far more analytic and technical. The touches were scientifically juxtaposed without regard to form. The style was almost abstract for this reason-primarily designed to get vivid color, using nature more or less as a pattern. The work of these two artists was perhaps the purest expression of the pointillist technique. They painted by rule and laid their "beads" of color by

<sup>15</sup> Toid., p. 130-131.

the thousands, "embroidering" them into compositions with incredible patience.16

In order that the eye of an observer may respond adequately to the intermingling of pigments on the canvas, the juxtapesed bits of color must be quite small or the distance between canvas and observer should be increased. Seurat's results appear to be more of a mosaic craft than painting, as may be observed in his figure 80, Near the River Scine.

#### POST-ISMESSIONISE

The chief exponents of the Post-Expressionist school were Cezanne, Gauguin, and Van Gogh, who say rightly be considered the fathers of modern art. Individually, the Post-Expressionists pursued the study of color as did the Expressionists. These men did not point fleeting impressions of worldly objectives. Instead, they drew on their environment as a source of inspiration for effects of form and color, asarching for the hidden order beneath the temperary aspects of nature. In this respect, many of our modern painters may be considered disciples of the Post-Expressionists.

The transition from Impressionism to Fost-Impressionism was marked by a reaction against color analysis as light only.

<sup>16</sup> Ibid., p. 130.

The Fost-Impressionists' reaction was expressed by emphasizing the functional use of color. Cezanne employed planes of various intensities and hues in light and bark values to create volume, and gave each object the proper color to its position in distance and space. Van Gogh's use of intense, vibrant colors was a definite contrast to the mechanical vision of the Impressionists. Gauguin's abstract, primitive use of color expresses the individual emotional reaction of the painter.

Willard Hustington Wright long age pointed out that study of color in the painting of the past, since the Remaissance, would show that it had been used maturally. to increase the illusion of appearance-reality: ormamentally, to add to the pleasing aspect of pictures as decoration-this trailing off into the voluptousness of court painting, etc., and dramatically, to heighton the feeling of the spectator by color-contrast. The Improssionists might be said to have deified color for its own sake, wristing it free from the other elements of design; and certainly they paved the way to discovery of its indspendent plastic-dynamic properties. It was left for the Expressionists, led by Jezanne, to pick up color thus purified and fuse it constructively with the other plastic elements: to recover the volume-organization that hed been thrown away by the Impregsionists, and to co-ordinate it with color orchestration. 17

Early painting developed drawing and design or composition -the two other elements of the art of painting to the exclusion
of the understanding and use of color.

# CEZARNE (1639-1906)

Cezanne used color to create forms and space. Kis

<sup>17</sup> Sheldon Choney, Expressionism in Art, pp. 257-256.

senser of painting reduced the independent value of individual objects, subordinating them into a closer relationship. The solidity of his convases is dependent upon the small component parts, the modulations of color, tone, and volume. These elements create Ceranne's compositional conception. His approach to painting was a definite reaction to the Impressionists' method of obliterating form to achieve the fullest possible intensity of light.

From close and patient observation of nature he determined that the achromatic value of a surface changes as the direction of the planes composing the object change. The colors of the planes of the object change in hue also, due to the manner and amount of light reflected. Through the judicious use of color, the gradation of tones, and by drawing in perspective. Cezanne achieved the third dimension in his compositions. He observed that one must see in nature the cylinder, the sphere, and the cone, all put into perspective of line, tone, and color.

Occame combined the processes of drawing and color into one operation. Previous to him most Occidental painting had been a matter of erranging form and value. Color was secondary and erbitrary. He sought chromatic gradations and functions of color, scastructing form with color, as expressed in his figure 63, Still Life, figure 64. The Bathers, figure 65, Et. Ste. Victoire, and figure 66, The Smoker.



Figure 63



Figure 64



Mt. Ste. Victoire

Cezanne, 1839-1906, French

Figure 65



The Smoker

Cezanne, 1839-1906, French

Figure 66

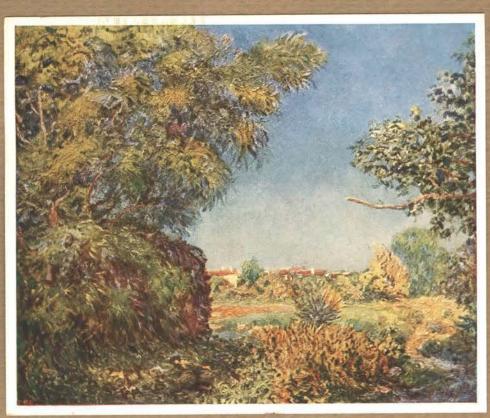


Figure 67



Figure 68

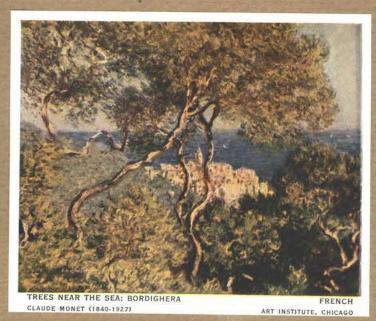


Figure 69



AU LOGE AUGUSTE RENOIR (1841-1919)

FRENCH PRIVATE COLLECTION

Figure 70



Figure 71

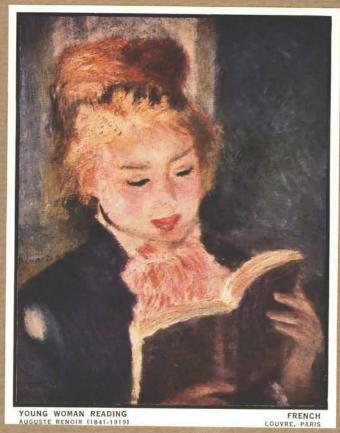


Figure 72

## GAUGUIN (1848-1903)

Gauguin used intense color in large flat masses, only suggesting color modeling. Being disatisfied with the objectivism of the Impressionists, he enclosed, cloisonne feshion, his mighty, simple figures, that are indicative of a type-idea based on forms observed directly in nature. Gauguin endoavored to reproduce in his compositions an all-ombracing vision, expressed by a few elements of color and volume. In his compositions he never seased to decorate. His motives, even if they happen to be men or women, twist and unwind in arabesque manner on the surface of the convas. The figures are not so individual but were reduced to a type. He interpreted the spirit of a place and people, achieving decorative effects through the use of pure hue. He also developed new and valuable color relationships.

Figure 73, At the Sesside, figure 74, Ramyard Scene, end figure 75, Tahiti, by Gauguin, are excepted from an individual who was engrossed in the beauty of decoration, but essentially interpretative of what he would like to see.

# VAN GOOM (1853-1890)

Ven Coch used solor dynamically to express his vital interest in life. Ho used vibrant and intense color in juxtaposed and intervoven spots and lines. His compositions are strong contrasts of value and intense colors. The

subject matter, technique, and the color combinations all seem to move within his canvases. He has interwoven oranges and purples, and flaming yellows with his dazzling greens. Van Gogh painted the effect of light with color in a new technique. His use of color shows the influence of the Impressionists, while in his conception of nature he was the direct opposite of them. To him, a landscape was an actual human experience rather than reflections in the eye. He enclosed color areas with outline.

His palette consisted of Prussian blue, vermilion, violet, pinks, greens, and yellows in varying tones, oranges to light lemon yellow. These colors he contrasted or combined to form his harmonies. His canvases do not present greet harmonic values of neutrals with color.

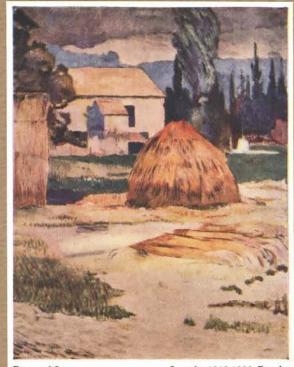
Figure 76, Portrait of the Artist, figure 77, Cypress
Landscape, figure 78, Cornfield in Provence, and figure 79,
Sunflowers, by Van Gogh express his dynamic use of color in
painting.

#### MODERNISM

Picasso and Braque originated Cubism in the early part of the twentieth century. The Cubists pursued structure through its architectural espects rather than through color. The planes of forms were emphasized, giving the objects a geometrical appearance. They believed that one view of an



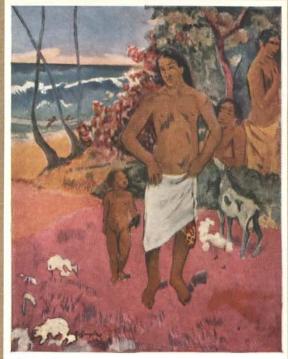
Figure 73



Farmyard Scene

Gauguin, 1848-1903, French

Figure 74



No. 142—Tahiti Gauguin (1848-1903)

Albright Art Gal., Buffalo French School

Figure 75







Figure 78



Figure 79

object gave only a partial sense of its structure. As a result of this assumption, they sought to correct this sense by presenting the object in various views simultaneously. They sought to eliminate objectivity and achieve form by intersectional planes.

The Moderns are concerned with the abstract values of color, being interested in geometric forms as flat planes and lines. By the use of abstract forms instead of concrete things they have been free to study new and interesting arrangements of forms. They have developed a comparatively wide range of intense and grayed color harmonies. By the combination of various techniques they have achieved an interesting variety of textures.

It may be stated, indeed, that there are two main divisions of the Expressionist current: one in which the abstract values are sought for their own sake, independent of natural appearances, or with only incidental relation to the objective world; and one in which a picture ordered with nature's materials and rich in "feeling" contains a supporting skeleton or structure of the abstract, the latter being the more important reason for the pictures existence, aesthetically considered though there may be a range of overvalues, depending upon the nature of the subject, affording human and social interest and stimulation. 18

Out of the Cubist movement grew Abstractionism. In this movement the Moderns desired to divorce painting from objective values. The chief exponent of Abstractionism is Kandinsky. He advocated the construction of color harmonies

<sup>18</sup> Ibid., pp. 59-60.

without reference to natural forms, much in the same manner that a musician can compose melodies without reference to natural sounds.

They do not wish to remind you of something or give you a picture of something or point a moral with an artistic interpretation of something. They want to stimulate and delight your vision with a composition of pigments on the canvas. They want you to enjoy painting as color and form in the same way that you enjoy music as sound—without considering whether it calls to mind a rivulet or the Day of Judgment. 19

Picasso's early canvases depict beggars, circus folk, the impoverished, and the less fortunate members of Perisian society. In these pictures are to be found human qualities and dramatic characteristics.

Following this period he withdrew to the studio and contemplated ideas rather than working objectively from the
outside world. He studied the theories of Cezanne and
proceeded to paint in the style of the African Negroes. This
later developed into Cubism, reducing all forms to a few
planes. Like Cezanne, Picasso has sought authentic, artistic
values, and has been active in getting back to essentials of
form.

Figure 81, Improvisation No. 30., by Kandinsky, figure 82, Bouquet, figure 83, Blue Window, by Matisse, figure 84, View From the Studio, by Picasso, and figure 85, Still Life-Fruit and Guitar, by Braque, express the Modernists' abstract

<sup>19 &</sup>quot;Fourteen Notable Paintings", Fortune Magazine. (January, 1934) 30.



Near the River Seine

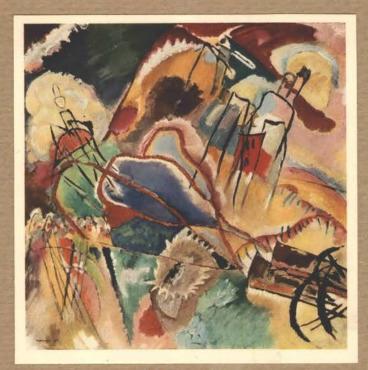


Figure 81



Figure 82





Figure 84

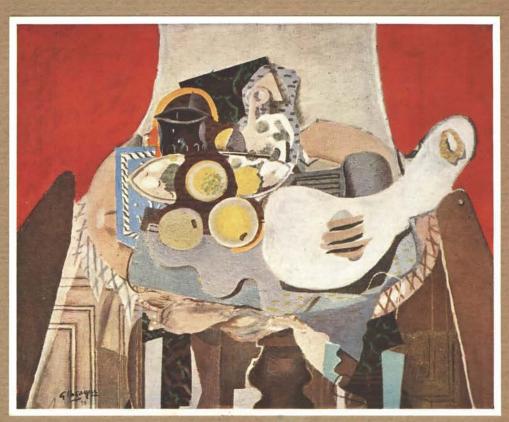


Figure 85

use of color in painting.

#### CONCLUSION

It is obvious that science has been the most influential factor in contributing to the understanding of the use and development of color as related to Occidental painting in Europe since the twelfth century. However, there were no scientific contributions toward color understanding, previous to Da Vinci. He studied the physical and psychological properties of hue, and advocated the theory of the four visual primaries, red, yellow, green, and blue.

Following the discovery of light refraction by Sir

Isaac Newton in 1666, a more universal interest was manifested by artists in the study and experimentation of color. Newton's discovery is a foundation on which many color theories have been created. One of the most important was that of Chevreul, who formulated principles of color contrasts, which prefoundly influenced the experiments and use of color by the Impressionists.

From the Impressionists the Post-Impressionists gained a scientific knowledge of color. This understanding and influence has continued as a dominant factor into the Modern movement, contributing to a more intelligent use of color.

#### BIBLIOGRAPHY

## BOOKS

- Abell, Walter. Representation and Form. Charles Scribner's Sons, (1936).
- Allen, A.B. Colour Harmony Its Theory and Practice. Frederick Wayne and Co., Ltd., (1937).
- Binyon, Laurence. The Posms of Nizami. The Studio Publications, Inc.
- Birren, Faber. Color Dimensions. The Crimson Press, (1934).
- . Functional Color. The Crimson Press, (1937).
- (1938). Monument to Color. McFarlane, Warde, McFarlane,
- . The Story of Color. The Crimson Press, (1941).
- Brown, J. Hullah. Watercolor Guidance. A.&C. Black, Ltd., (1931).
- Bulliet, C.J. Apples and Madonnas. Covici, Friede, Inc., (1933).
- Cheney, Sheldon. Expressionism in Art. Liveright Publishing Corporation, (1934).
- . A World History of Art. The Viking Press, (1937).
- Cockrell, Dura Brokaw. Introduction to Art. Richard R. Smith, Inc., (1930).
- Craven, Thomas. Men of Art. Simon and Schuster, (1931).
- . Modern Art. Simon and Schuster, (1934).
- Cross, Anson K. Color Study. Ginn and Company, (1896).
- Davidson, Morris. Understanding Modern Art. Coward-McCann, Inc., (1931).
- Painting. Harcourt, Brace and Co., Inc., (1934).

- Duncan, Walter Jack. First Aid to Pictorial Composition. Harper and Brothers, (1939).
- Ennis, George Pearse. Making a Watercolour. The Studio Publications, Inc., (1937).
- Fischer, Martin. The Permanent Palette. National Publishing Society, (1930).
- Gilbert, Katherine Everett and Kuhn, Helmut. A History of Esthetics. The MacMillan Company, (1939).
- Gray, Basil. Persian Painting. Oxford University Press, (1940).
- Hagen, Oscar. Art Epochs and Their Leaders. Charles Scribner's Sons, (1927).
- Hawthorne, Charles W. Hawthorne on Painting. Pitman Publishing Corporation, (1938).
- Henri, Robert. The Art Spirit. J.B. Lippincott Company, (1930).
- Hourticq, Louis. Art in France. Charles Scribner's Sons, (1911).
- Huyghe, Rene. French Painting The Contemporaries. Julius Wisotzki, (1939).
- Jacobs, Michel. The Art of Colour. Doubleday, Page, and Company, (1926).
- Ladd-Franklin, C. Colour and Colour Theories. Harcourt, Brace, and Company, (1932).
- Laurie, Arthur P. The Pigments and Mediums of the Old Masters. MacMillan and Company, Ltd., (1914).
- Luckiesh, M. The Lighting Art. McGraw-Hill Book Company, Inc., (1917).
- Mouclair, Camille. Monet. Dodd, Mead, and Company, (1924).
- Novotny, Fritz. Paul Cezanne. The Phaidon Press, (1937).
- O'Hara, Eliot. Making Watercolor Behave. Minton, Balch, and Company, (1936).

- Osler, Roscoe W. Tintoretto. Bridgmen Publishers, (1879).
- Ostwald, Wilhelm. Colour Science. Winsor and Wewton, Ltd., (1931).
- Pearson, Ralph M. Experience in Pictures. Brewer, Warren, and Putnem, (1932).
- Petrnoci, Rephael. Chinese Painters. Bretano's. (1920).
- Pope, Arthur Upham. An Introduction to Persian Art. Peter Davies, (1930).
- Pope, Arthur. Tone Relations in Painting. Harvard University Press, (1928).
- Quilter, Marry. Angiolotto Bondone celled Giotto. Bridgenn Publishers, (1929).
- Read, Herbert. Art and Society. Mackillan Company, (1937).
- Rey, Tristen. Gauguin. Dodd, Mead, and Company, (1924).
- Ross, Denman Waldo. The Painters Falette. Houghton, Kifflin Company, (1919).
- Sargent, Walter. The Enjoyment and Use of Golor. Charles Scribner's Sons, (1923).
- Sloan, John. Gist of Art. American Artists Group, Inc., (1939).
- Stites, Raymond S. The Arts and Man. McGraw-Mill Book Com-pany, Inc., (1940).
- Stowe, Edwin. Velasquez. Bridgman Publishers, (1929).
- Tabarent, A. Piscaro. Dodd, Mead, and Compeny, (1925).
- Thomas, Henry and Dana Leo. Living Singraphies of Great Painters. Sarden Publishing Company, Inc., (1940).
- Van Dyke, John C. History of Painting. Longmans, Green, and Company, (1919).
- Venturi, Lionello. Sandro Botticelli. The Phaidon Press, (1937).

Vollard, Ambrosc. Renoir an Intimato Record. Alfred A. Enoff, Inc., (1930).

#### ENOYOLOPEDIA REFERENCAS

- Benedite, Leonce, "Painting: Modern French," The Encyclepaedia Britannica, 11th edition, XI, 502-6.
- Brown, Gerard Beldwin, "Painting," The Encyclopsedia Britennica, 11th edition, XX, 459-97.
- Colvin, Sidney, "Durer," The Encyclopsedia Britannian, 11th edition, VIII, 700.
- Crowe, Sir Joseph Archer, "Molbein," The Encyclopaedia Britannica, 11th edition XIII, 550.
- Khnoff, Fernand, "Painting: Kodern Holgian," The Encyclopsedia Britamica, 11th edition, ZK, 506-8.
- Muther, Richard, "Painting: Recent Dutch, German, Austrian, Italian, Spunish, Swedish, Forwegian, Russian, end Balkan States," The Encyclopaedia Britannica, 11th edition, XX, 505-13.
- Rossetti, William Michael, "Claude of Lorraine," The Encyclopeedia Britannica, 11th edition, VI, 463.
- Spielmann, Merion H., "Painting: Recent British," The Spielmand Britennice, 11th edition, XX, 497-502.
- Van Dyke, John Charles, "Painting: United States." The Encyclopaedia Britannica, 11th edition, XX, 516-17.

#### TIPURISHED INTERIOR

Jack, Ella, "Color and Painting: Procepts for the Instruction of Beginners in the Use of Color." Unpublished Master's thesis, Claremont College, Claremont, Califormia, 1938. 104 pp.

### PERIODICAL ARTICLES

- Alexander, Arsene, "The Art of Vermeer of Delft." Masters in Art, part 54, 5 (June), 29-31.
- Alexander, Arsene, "The Art of Frans Hals." Masters in Art, part 11, 1 (November, 1900), 29-31.
- Allen, Frank, "Color From Substance to Sensation." The Scientific Monthly, (January, 1937), 57-61.
- Birren, Faber, "Colors For Comfort." Readers Digest, 30 (February, 1937), 4.
- Birren, Faber, "Bringing the Study of Color Up to Date." School Arts Magazine, 30 (April, 1931), 483-7.
- Birren, Faber, "The Basic Principles of Color Harmony." School Arts Magazine, 30 (April, 1931), 50-9.
- Birren, Faber, "What the Physicist Offers to Color Study." School Arts Magazine, 30 (May, 1931), 552-5.
- Birren, Faber, "What the Psychologist Offers to Color Study." School Arts Magazine, 30 (June, 1931), 624-6.
- Birren, Faber, "When Color is Printed." Design, 37 (October, 1935), 9.
- Blashfield, E.H. and E.W., "The Art of Raphael." Masters in Art. part 40, 4, 32-5.
- Blashfield, E.H. and E.W., "The Art of Giotto." Masters in Art, part 32, 3 (August, 1902), 31-4.
- Bode, Wilhelm, "The Art of Frans Hals." Masters in Art, part 11, 1 (November, 1900), 22-5.
- Boswell, P., "Clarifying Color." Art Digest, 11 (March, 1937), 3.
- Bredius, A., "The Art of Vermeer of Delft." Masters in Art, part 54, 5 (June), 29.
- Burger, W., "The Art of Vermeer of Delft." Masters in Art, part 54, 5 (June), 26-7.

- Certwright, Julia, "Giotto di Bondone." Masters in Art, pert 32, 3 (August, 1902), 21-6.
- Chamberlain, Arthur B., "The Art of Constable." Masters in Art, part 77, 7 (Nay, 1906), 30-2.
- Colvin, Sidney, "The Art of Chardin." Masters in Art, part 65, 6 (May, 1905), 27-30.
- Colvin, Sidney, "The Art of Giotto," Masters in Art, part 32, 3 (August, 1902), 28-9.
- Cornelle, Ruth Dyer, "A New Approach to the Teaching of Color and Design." School Arts Magazine, 30 (April, 1931), 497-501.
- Crider, John H., "Unpuzzling Color." Scientific American, (May, 1938), 284-5.
- Dilke, Lady, "The Art of Chardin." Easters in Art, part 65, 6 (May, 1905), 34-5.
- Downes, William Howe, "The Art of Frans Hals." Resters in Art, part 11, 1 (November, 1900), 24.
- Grubert, Lenore Martin, "A Consideration of the Use of Color." Design, 37 (April, 1936), 24.
- Head, Forcy Rendell, "Franc Hals." Masters in Art, part 11, (November, 1900), 21-2.
- Holmes, C.J., "The Art of Constable." Masters in Art, part 77. 7 (May, 1906). 32-6.
- Lemcke, Carl, "The Art of Vermeer of Delft." Masters in Art, part 54, 5 (June), 27-8.
- Lewinsohn, Sam A., "Master Virtuoso." Magazine of Art, 50 (October, 1937), 605.
- Luckiesh, B., "Light in Art." International Studie, 52 (1914).
- Monkhouse, Cosmo, "The Art of Constable." Masters in Art, part 77, 7 (May, 1906), 36.
- Mormand, Charles, "The Art of Chardin." Easters in Art, part 65, 6 (Eay, 1905), 30-4.

- Ozenfant, "Color and a Method." Architectural Review, 81, 89-92.
- Ozenfant, "Color Solidity. "Architectural Review, 81, 243-5.
- Payant, F., "Color Taught in Large Murals." Design, 34 (February, 1933), 224.
- Peidman, Edward H., "Architectural Polychromy." Art and Archaeology, 24 (July, 1927), 15-20.
- Peltzer, Alfred, "The Art of Vermeer of Delft." Masters in Art, part 54, 5 (June), 34-6.
- Piper, John, "John Constable." Architectural Review, 81, 149-150.
- Pope, Arthur U., "Color in Persian Architecture." Apollo, 13, (February, 1931), 76-81.
- Quilter, Harry, "The Art of Giotto." Masters in Art, part 32, 3 (August, 1902), 34-5.
- Reiss, W., "A Plea For Color." Art Digest, 8 (February, 1934), 24.
- Roddaz, Camille De, "The Art of Frans Hals." Masters in Art, part 11, 1 (November, 1900), 28-9.
- Rose, George B., "The Art of Raphael." Masters in Art, part 40, 4, 28-9.
- Rusk, Rogers D., "Optics in Modern Painting." The Scientific Monthly, (May, 1934), 460-66.
- Ruskin, John, "The Art of Giotto." Masters in Art, part 32, 3 (August, 1902), 29-30.
- Salade, Robert A., "Interesting Color Facts." Industrial Arts and Vocational Education Magazine, 13, (1924), 450-1.
- Shurtleff, H.R., "An Experiment in Architectural Color." Arts, 15 (March, 1929), 202-3.
- Staley, Edgcumbe, "Watteau." Masters in Art, part 39, 4, 34.
- Stewart, Gulin, "The Magic of Color." International Studio, 81, 280-1.

- Stone, Irving, "Tortured Soul." Readers Digest, 128 (March, 1936), 115-24.
- Stout, Katherine D., "Life and Color." School Arts Magazine. 27 (October, 1937), 67-9.
- Strackey, Henry, "The Art of Raphsel." Easters in Art, part 40, 4, 30-2.
- Suida, W., "A Panel Painting by Giotto." Apollo, 13 (Pebruary, 1931), 90-3.
- Symonds, John Addington, "The Art of Giotto." Mesters in Art, part 32, 3 (August, 1902), 30-1.
- Vagelgeseng, S., "Color Treatment of Exhibition Space." Architectural Review, 73 (May, 1933), 370-4.
- Van Cott, Dewey, "Teaching Color in the School Room." School Arts Magazine, 27 (October, 1927), 69.
- Van Dyke, John C., "The Art of Vermeer of Delft." Mesters in Art, part 54, 5 (June), 32-3.
- Van Dyke, John C., "The Art of Franc Hels." Kasters in Art, part 11, 1 (November, 1900), 27-8.
- Van Dyke, John C., "The Art of Giotto." Easters in Art, part 32. 3 (August, 1902), 27-6.
- Vasari, Giorgio, "The Art of Giotto." Masters in Art, part 32. 3 (August, 1902), 27.
- Vosmeer, C., "The Art of Frans Hals." Existers in Art, part 11, 1 (November, 1900), 25-6.
- Wedmore, Frederick, "The Art of Chardin." Masters in Art, part 65, 6 (May, 1905), 35-6.
- Wedmore, Frederick, "The Art of Vermoer of Dolft." Masters in Art, part 54, 5 (June), 31.
- Wolfe, Julia W., "Colors Are the Expression of the Day." School Arts Magazine, 30 (April, 1931), 49-51.
- Woltman, Alfred and Woersann, "The Art of Vermeer of Delft." Masters in Art, part 54, 5 (June), 33.

- "Architecture and Color: Century of Progress Exhibition." Design, 35 (October, 1933), 33.
- "Color Comes of Age." Business Week, 45 (April, 1937), 45.
- "Color Exhibit For New York." Art News, 29 (January, 1931), 8.
- "Color in Industry." Literary Digest, 95 (November, 1927), 71-3.
- "Color Under Prohibition." House and Garden, 50 (September, 1926), 76.
- "Fourteen Notable Paintings." Fortune Magazine, (January, 1934), 30.
- "Giotto." Art Digest, 12 (October 1, 1937), 8.
- "New Color Values." Art News, 29 (February, 1931), 14.
- "Rembrandt and His Circle." Art Digest, 10 (December, 1935), 7.
- "Rembrandt and His Circle." Art Digest, 10 (January, 1936), 7.
- "The Magic of Color." Literary Digest, 86 (July, 1925), 24.
- "The New Age of Color." Saturday Evening Post, 200 (January, 1928), 22.
- "Watteau and His Contemporaries." Apollo, 24 (November, 1936), 304-6.

Typist: Kallye Owensby