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VII. NO. 43

APPLIED DESIGN FOR PRINTERS

A HANDBOOK OF THE PRINCIPLES OF
ARRANGEMENT, WITH BRIEF COMMENT
ON THE PERIODS OF DESIGN WHICH
HAVE MOST STRONGLY INFLUENCED
PRINTING

BY
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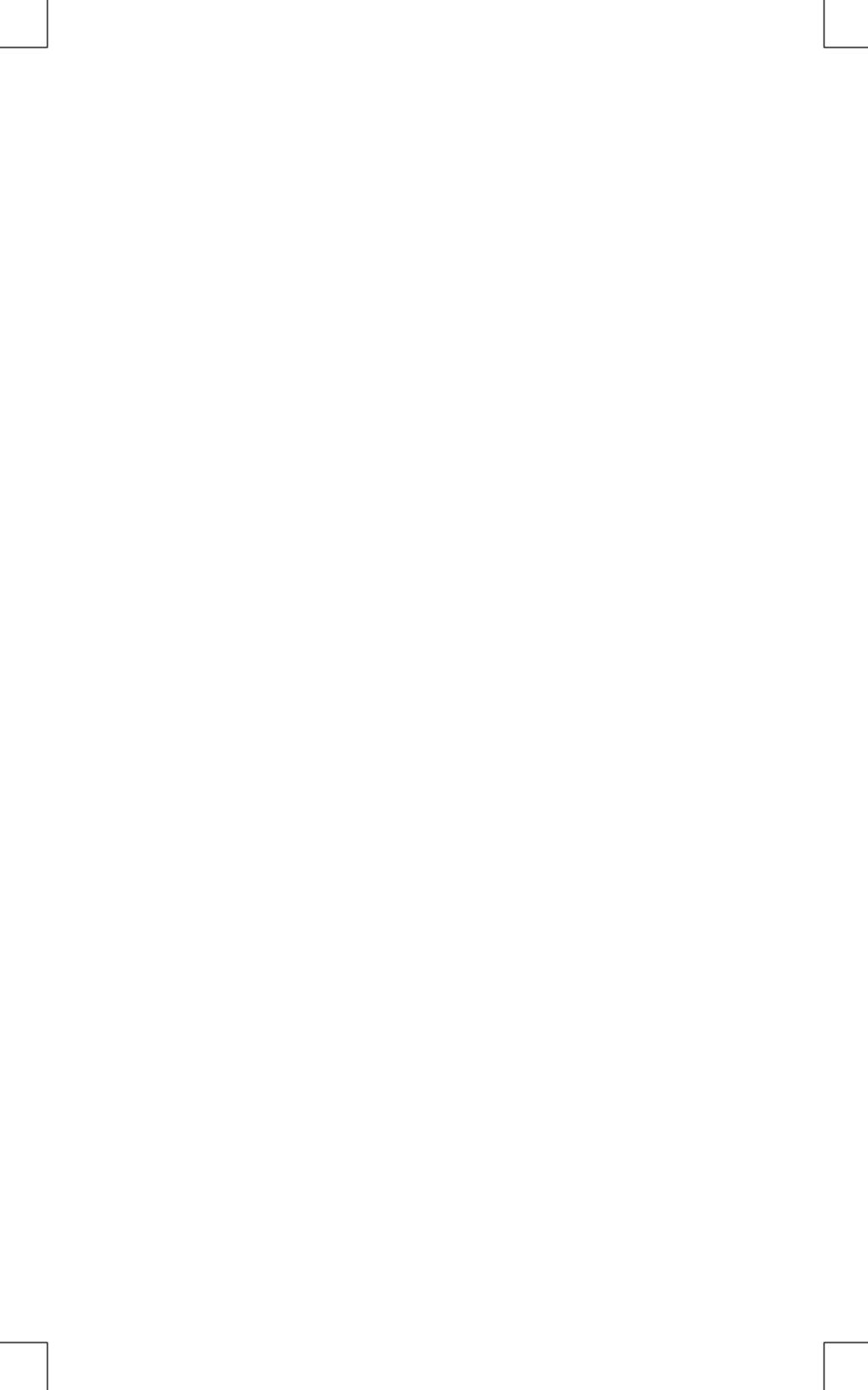
This primer of design is an earnest effort intelligible to the apprentice student certain fundamental principles of arrangement and of ornamentation whose use is instinctive to the accomplished typographer.

It has been often written that there are no rules in Art, and equally often that the master artist (or craftsman) is he who can skillfully break all rules. It must be inevitable that the apprentice shall adhere too closely to each newly observed principle before his work can be a well-rounded embodiment of them all. To him is commended this exact procedure, recognizing, as his perception grows, that there

are good reasons why traditions are emphasized here and all-embracing rules and formulae are not to be found.

Due credit must be paid to Mr. Ernest Hilen Hatchelder, who first devoted his pen and brush directly to the printer's problem in design, and who in turn gives honor to the influence of Mr. Venman Ross. Neither has expressed a method but has graphically analyzed the attitude of mankind during successive epochs toward those matters which deal with beauty.

It is to be hoped that this little book may serve as a simple guide and as a stimulant toward an extended study of the larger attributes of printing which are not concerned with utility alone. H. L. G





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APPLIED DESIGN FOR PRINTERS



Introductory

How material may be made into a finished product which will have the quality of usefulness alone. Utility is the first purpose of most of the works of man. But when the maker is moved by pride in his work and a desire for beauty to make his handiwork pleasing in appearance as well as useful a second purpose is fulfilled. All civilization and most forms of savagery demand that the equipment of routine life shall be pleasing to the eye after its prime purpose of usefulness has been developed.

If an article be pleasing in appearance its making will have involved some of the

elements of design. The relationship of its parts, the lines of its construction, its coloring, the manner in which it is ornamented will depend first upon its purpose, but will be guided by a group of recognized traditions which we call the principles of design.

Design governs the arrangement of masses, lines, and dots to secure the qualities of beauty and fitness.

Any piece of work which is definitely arranged with consideration for its various parts and their relationship is called, in the abstract, a design. Thus we speak of a poster, a decorated wall, a building, or a printed page as a design.

Any successful design will have the qualities of fitness and beauty. Fitness to purpose is largely a mechanical factor. An ugly building may protect its occupants from the weather, and an ugly printed page may be entirely legible. Beauty

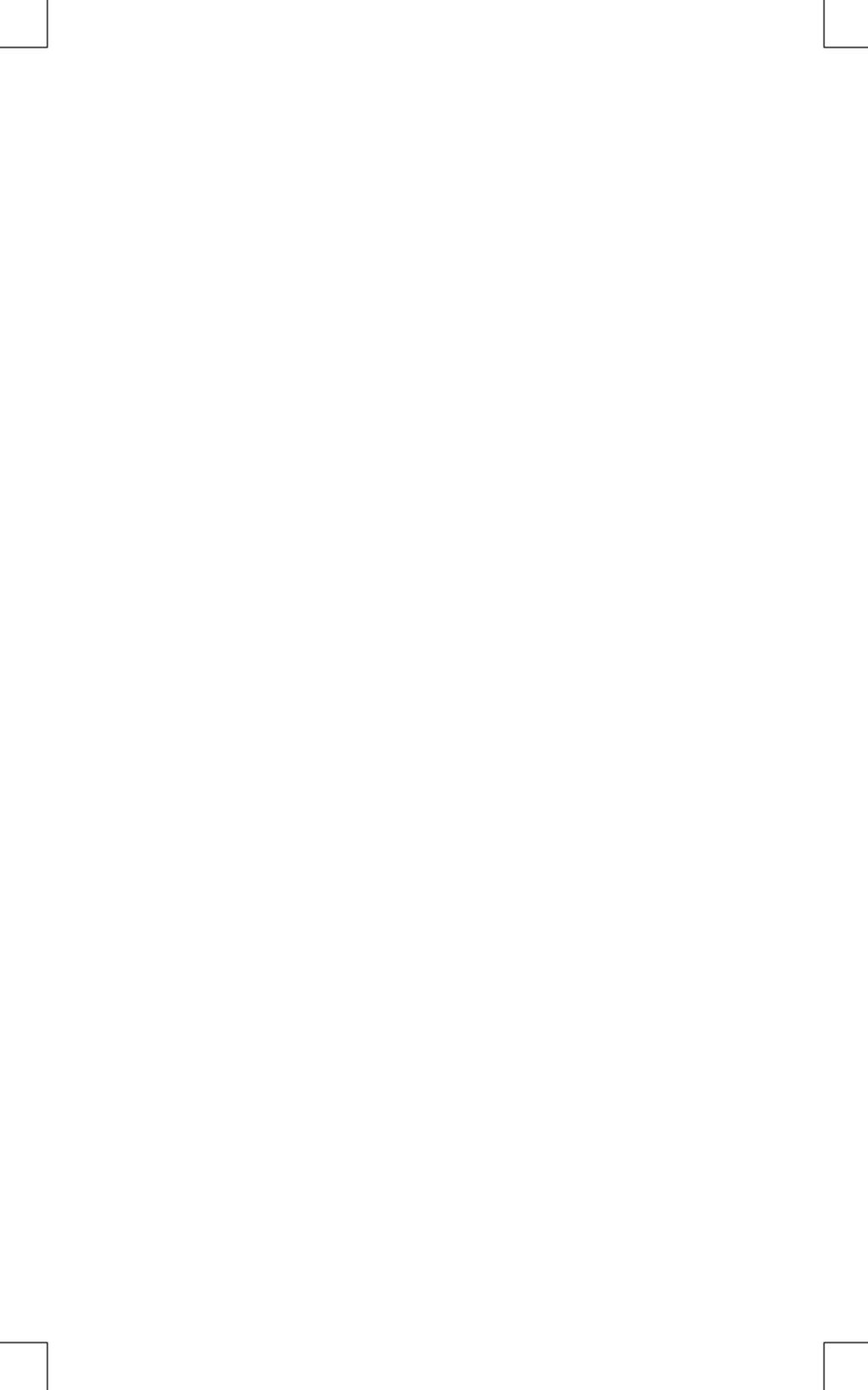
depends upon esthetic qualities; that is, upon the characteristics of the design which will appeal to the eye and mind through the consideration of Harmony (of shape, tone, color, and conception), Balance and proportion (of mass, shape, and color), Rhythm (of shape, line, tone, and color).

This conception of the elements of design covers all of the many things that mankind makes buildings, or railroad trains, or sculpture, or paintings, or pottery, or furniture, or the printed page alike. In each, different though they be, the purpose of design is to relate the various surfaces, masses, and structural lines and to decorate or ornament the finished whole. Countless materials may be used and all the varied purposes of the equipment of mankind must be satisfied, but the application of the principles of design will be similar throughout. This point is emphasized so that

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the student of printing may
find a common ground with the
workers in all the fine and
useful arts.





The Surface

In the printed page, design is concerned with the arrangement of masses and lines on a flat surface the face of the sheet of paper. Hence design in printing considers two dimensions only, width and length. The third dimension, depth, which must be treated in all but flat surfaces, can only be represented on the printed page and the means of showing depth is really an illusion by which the eye sees various colors and tones which convey a pictorial impression.

It is important to note that design and pictorial representations serve each a different purpose in printing. Yet they are similar mechanically in that

each requires a printing surface (type, borders, ornaments, and engravings) which may be prepared by the same mechanical procedures. The picture exists for its own interest or as an illustration for the text. As such it is merely an element in the design of the page. Decoration or ornament may be used to embellish the page, as a pattern on its flat surface, and may be related to the text, but need not serve as an illustration to it.

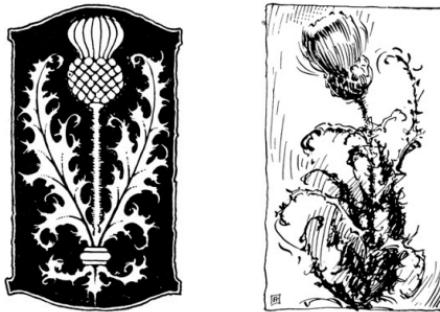


Fig. 1. A design of flat surfaces and a realistic pen sketch of the same subject.

As an example: Much of the material devised for the decoration of the printed page (ornaments and borders) is derived from natural forms: i. e., leaves.

flowers, etc. The leaves, stems, and flowers which are adapted to form the ornament shown in Fig. 1 are a flat pattern of black and white. The same material is rendered pictorially in the pen sketch accompanying the ornament. It will be observed that the flat treatment of the ornament depends upon arrangement of interesting flat masses for its significance. The pen sketch not only conveys an impression of the form of the natural objects, but it also suggests depth. A photograph of the natural objects, reproduced by a printing plate, would be still more realistic.

The preceding points have been given emphasis as a warning against a tendency to use pictures, however pleasing, as decorative material; or to allow design in printing to be concerned with a representation of depth. The same masses of shadow and light which

express roundness or depth in a picture may be formed into decorative flat masses and thus embodied in the design of the page. In Fig. 2, A is a picture which might be used as an illustration or for its own interest. B is a flat rendering whose arrangement of masses suggests the pictorial interest of A without denying the flat surface upon which it is printed.





'The Matter is in Off Design'

Since design is a matter of arrangement, its materials are the masses, lines, and dots which make up the whole form.

A dot theoretically has no dimensions. And a line (being the path of a dot in motion) theoretically has length but no width. While if a line be moved sideways it produces a mass which has area and shape.

Practically, a dot may be larger than a pin point and may have definite shape a square dot or a round dot. Also in the common terms of design a line may have width

(often called weight). Thus we speak of a narrow or light line as contrasted with a wide or heavy line.

A mass will have shape, which is the impression conveyed to the eye by its general contour. It will have size or measure, which will be its actual or



Fig. 2, A. Halftone engraving from a photograph, retaining full pictorial effect of depth, expressed in various gray tones and soft edges. This is an illustration.

Fig. 2, B. Decorative pen drawing from the same subject, telling the story of the photograph in flat surfaces of black and white. Suitable to decorate a type page.

relative area. It will further have tone or color,

its general relation in appearance to black and white or to the colors of the spectrum. Embodying these terms in an example: We may specify a mass square in shape, having an area of four square inches, and being gray in tone. These three characteristics, then, will identify and describe any mass.

In printing, the successive lines of type which form a paragraph, block, or connected series of paragraphs or blocks, are considered as a mass. An initial letter may be another mass; a head-band still another; and ornaments or illustrations may form other masses. All must be considered as mass elements in the design of the page, with rule borders as surrounding lines, or heavier designed borders as surrounding masses.

Thus all the component

parts of the printed page are reduced to elements or materials of design, and with these materials an arrangement is to be made, for the sake of beauty, which will have the qualities of harmony, balance, proportion, and rhythm.





The Qualities of Design

The dictionary defines harmony, in art, as a normal state of completeness in the relation of things to each other. This state of completeness in a harmonious scheme is such that we have no desire to change or modify any detail or characteristic.

Balance is defined as the state of being in equilibrium. In design this refers to the equilibrium or balance of attraction to the eye between the various

masses.

Proportion is the comparative relation of one thing to another with respect to size.

Rhythm, in design, is a movement characterized by regular recurrence of accent.

Let us discover the embodiment of these qualities of design with a simple experiment. Cut from black, dark gray, and light gray cover paper a miscellaneous assortment of small pieces as shown in Fig. 3. This group of squares, oblongs, triangles, diamonds, circles, and whatnot has none of the qualities of design as it appears in Fig. 3.

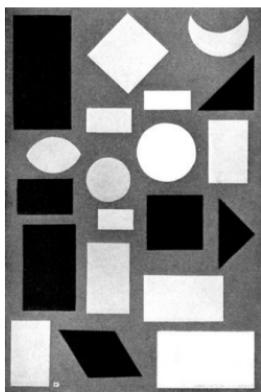


Fig. 3. A group of miscellaneous masses having various measures, shapes, and tones. Arranged without thought of design.

Choose from Fig. 3 certain pieces which seem to have a definite similarity of shape. Combine them with another rectangle, as in Fig. 4, and the result is certainly more orderly and pleasing than the unrelated tangle in Fig. 3. In Fig. 4 we have developed the quality of shape harmony. But we note that in spite of the harmony of shapes in Fig. 4 some of the pieces of paper seem unduly prominent because of their blackness. They do not seem harmonious with the gray tone of the others. If

we replace them with other pieces gray in color, as in Fig. 5, the result will be a more pleasing relationship of tone throughout the design. Thus we have made a simple demonstration of tone harmony.

If our pieces of paper were of various colors we could make another arrangement to express a color harmony. The problem of color, however, has so many phases that it is considered separately in this series.

If rhythm is to give us a regular recurrence of various features of a design, it will be possible to choose a combination of pieces of paper which will show a rhythmic arrangement, Fig. 6. It will be noticeable here that the shapes occur in successive groups which repeat an idea.

We may also arrange a series of pieces in which the tones are rhythmic,

progressing from light to dark in repeated groups. This will be a simple example of tone rhythm, Fig. 7.

Summing up the experiment thus far the following definitions may be noted:

Shape harmony will exist when masses similar in contour or shape are used to form a design.

Tone harmony results from the use of tones in a design which carry a feeling of relationship.

Shape rhythm is the regular recurrence of similar shapes in a design or a rhythmic increase or decrease in the size of shapes.

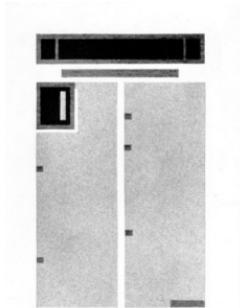


Fig. 4. Units selected from Fig. 3, having a common similarity of shape, but they are

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not harmoniously related in tone.

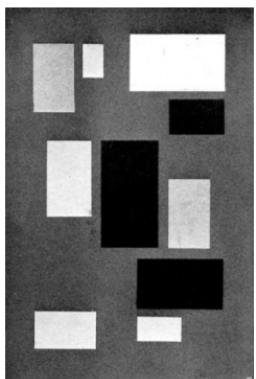
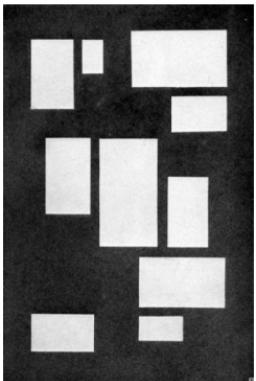


Fig. 8. The same shapes used in Fig. 6, constituting a tonal field giving no more than the primary harmony throughout.

Fig. 9. Simple development of shape and



measures rhythm such as might occur on a printed page. Measures should be related in measure as well as in shape.

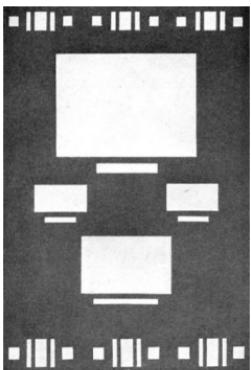


Fig. 7. Simple illustration of tone rhythm as it may occur on a type page. The tones progress from the white of the margins through the light gray masses of type, to the darker gray of decorations.

Tone rhythm is a recurrence of similar tones or a regular progression of related tones from light to dark or the reverse through a design.

The four qualities above are so closely related that there is often no definite dividing line between them; indeed, a successful design will embody them all.



THE PROPORTION

Our definition of proportion is based on the mathematical relationship of equality. It is based on the fact that equality is the quality of proportion. The quality of proportion is always associated to the relationship of equality. It is the same relationship that we are trying to determine what relationship of equality will fit best.

The use of equal relation in our definition is non-monotonic. This means finds variety of situations interesting. But the question is what form of variety is most interesting? We must find, if proportion is the usual name relationship

the two nations in a division. This problem has often been solved by the division of all nations into 11 periods, and it is interesting to note that the result has everywhere been practically the same.

Let us arrive at the proportionality of the simplest means of dividing a rectangle into two parts which will have the most interesting relationship. The rectangle is shown in Fig. 8, a shows a division into equal parts, the result being uninteresting and monotonous. In C the division gives a feeling that the lower part is too large; it is crowding the upper and the result is not pleasing. The relationship in D is so nearly equal that the division seems to have been an inaccurate effort to locate the center, somewhere between the division point in

and that in D will probably be the next point. Repeating trials will locate the point found to lie about two-fifths of the distance down from the top. This will give the upper name in both cases of 2 and the lower one of 3. Then the relationship or proportion in question 2 is to 3, or the same proportion, or nearly the same proportion, i.e. speaking of the ratio this ratio of 2 to 3 is correct.

It is interesting to note that here again the ratio is divided into the ratio of 2 to 3, the relationship of the smaller to the larger is practically the same as the relationship of the larger to the original whole. Or, mathematically, if the

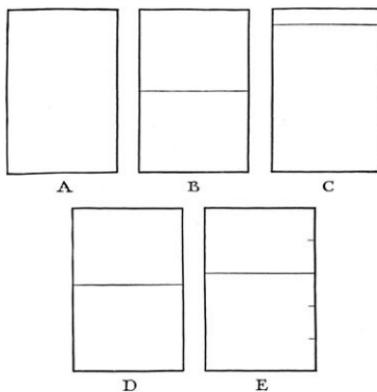


Fig. 8. The division of a rectangle, B, to secure spaces of interesting relationship. Equal division in B. Overbalance effect in C. Too nearly equal in D. More interesting in E, where the relationship of spaces is as 2 is to 3.

originally, having an area of 9, is divided into parts of 2 and 7, then 2 is to 7 as 2 is to 5, a ratio which is approximately true.

The student of architecture finds the most careful consideration of proportion and the relationship of parts throughout all the architectural orders. In printing, the designer must be guided by the same traditions.

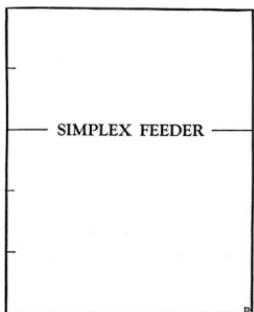


Fig. 9. Spotting a single line on a page so that it makes an interesting division of space. There are 2 parts of white space above and 3 parts below.

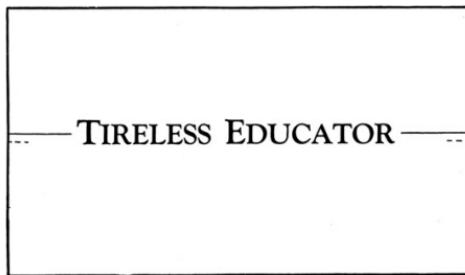


Fig. 10. Placing a single line so that it will appear to be centered. The dotted lines show the mathematical center of the vertical side. The straight lines show the center of the type line.

The most simple application of proportion to the division of a printed page occurs when a single type line or compact group of lines is to be placed on the page (Fig. 9). It is unfortunate that it

to go on to divide
mechanically in a tree
using identical sizes
of furniture or else
not below. Then, in addition
to instances (as in a situation
indicated), transition
from a line item mentioned
conventionally, it will be found
that the exact continuation of
the line will make it appear
a bit low. In optical
illusion it is known that certain
lines appear slightly if it
is taken up from the vertical
position. (Fig. 10.) This
movement position is called
the optical center. The
conclusion is that if it is
remembered that the width of the
line is the same in both parts
of the line, it will appear
higher. (Fig. 11.)

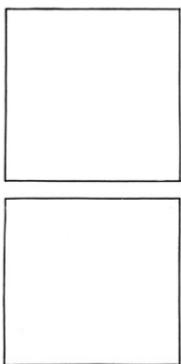


Fig. 11. A true square above and an optically corrected square below. Psychologists explain that the eyes find it more difficult to judge the length of vertical lines, hence are inclined to exaggerate them.



THE EQUILIBRIUM

The mechanical equilibrium which exists in the balance of our child between the optical balance which is the result of the proper adjustment of space within the confining edges of a design are similar, in that each is an equalizing of forces of attraction. In the former the force is gravity; in the latter, the attraction to the eye, which varies with the size and tone of the mass. While the force of gravity is always bringing back and returning man to horizontal alignment, optical balance may bring him

masses in a design into equilibrium on any desired line, horizontal, vertical, or diagonal.

The attraction which a mass possesses varies directly with its size and tone. Thus a mass of four square inches, solid black, will be twice as strong in attraction value as a mass of two square inches, solid black. It will also be twice as strong in attraction value as a mass of four square inches, neutral gray (the gray being half the value of black). The attraction value of gray tones particularly affects the consideration of blocks of type which vary in depth of tone according to the blackness of the type face, closeness of spacing, etc.

Since the seesaw must have its sawhorse and the weighing scale its point of support, it follows that any condition of equilibrium, physical or optical, demands

a point of balance. In design, this point will determine the location of the related masses. It will be apparent upon further thought that the point of balance should have some relationship to the edge or confines of the design.

The confining edge of the design is usually a rectangle, on the printed page. The location of a point of balance within this rectangle tends to divide it. How shall it be divided in the most interesting way? By applying the ratio of good proportion. So the point of balance may be located usually on a line which divides the page into parts of 2 and 3.

When equal masses are to be balanced it is obvious that they will be equidistant from the point of balance. (Fig. 12.)

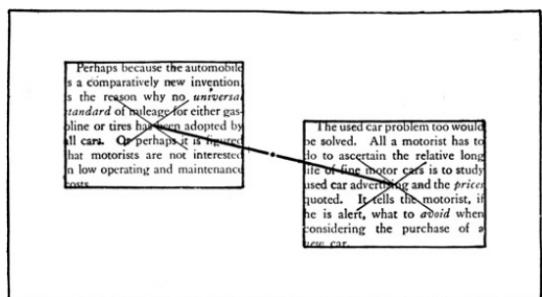


Fig. 12. Equal masses balanced at equal distance from the center point.

When the masses are unequal the point is at unequal distances from the centers of the masses. These unequal distances have the same ratio as the masses themselves, but the larger mass is always the shorter distance from the point. If 1 pound is to balance 4 pounds it is obvious that the 1-pound mass must be 4 times as far from the point of balance as the 4-pound mass.

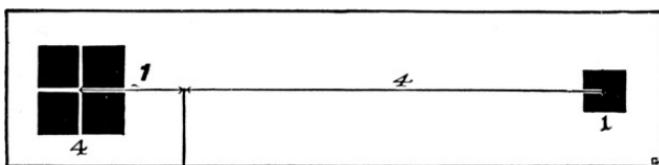


Fig. 13. Mass of 4 units balanced by 1 unit.

Hence, to balance two masses in a rectangle, the point of balance will be found by proportion, placing it on a line which divides the rectangle into parts of 2 to 3. The balancing of the masses across this point will then be a matter of determining their relative distances from it. It is apparent that the larger of two masses may be far enough from the point of balance so that it will force the smaller entirely out of the rectangle. It is of course easy to move the larger closer to the point which automatically brings in the smaller. What constitutes a proper distance from the edge of the rectangle will be discussed under Margins, in the book on Typographical Design.

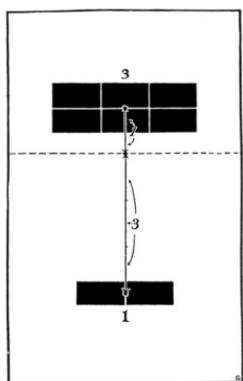


Fig. 14. Masses of 3 units balanced by mass of 1 unit, taking the point of balance upon the line which divides the space in good proportion.

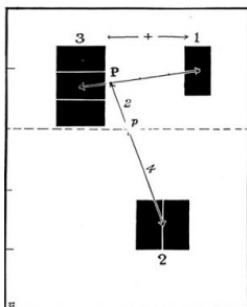


Fig. 15. Measures of 3 and 1 balanced by a measure of 2, the point of balance dividing the space in good proportion.

The balance of three or more masses within a rectangle involves the consideration of two at a time, balancing the pair or pairs with the remaining mass or masses. In Fig. 15, masses 1, 2 and 3 are to be balanced within the

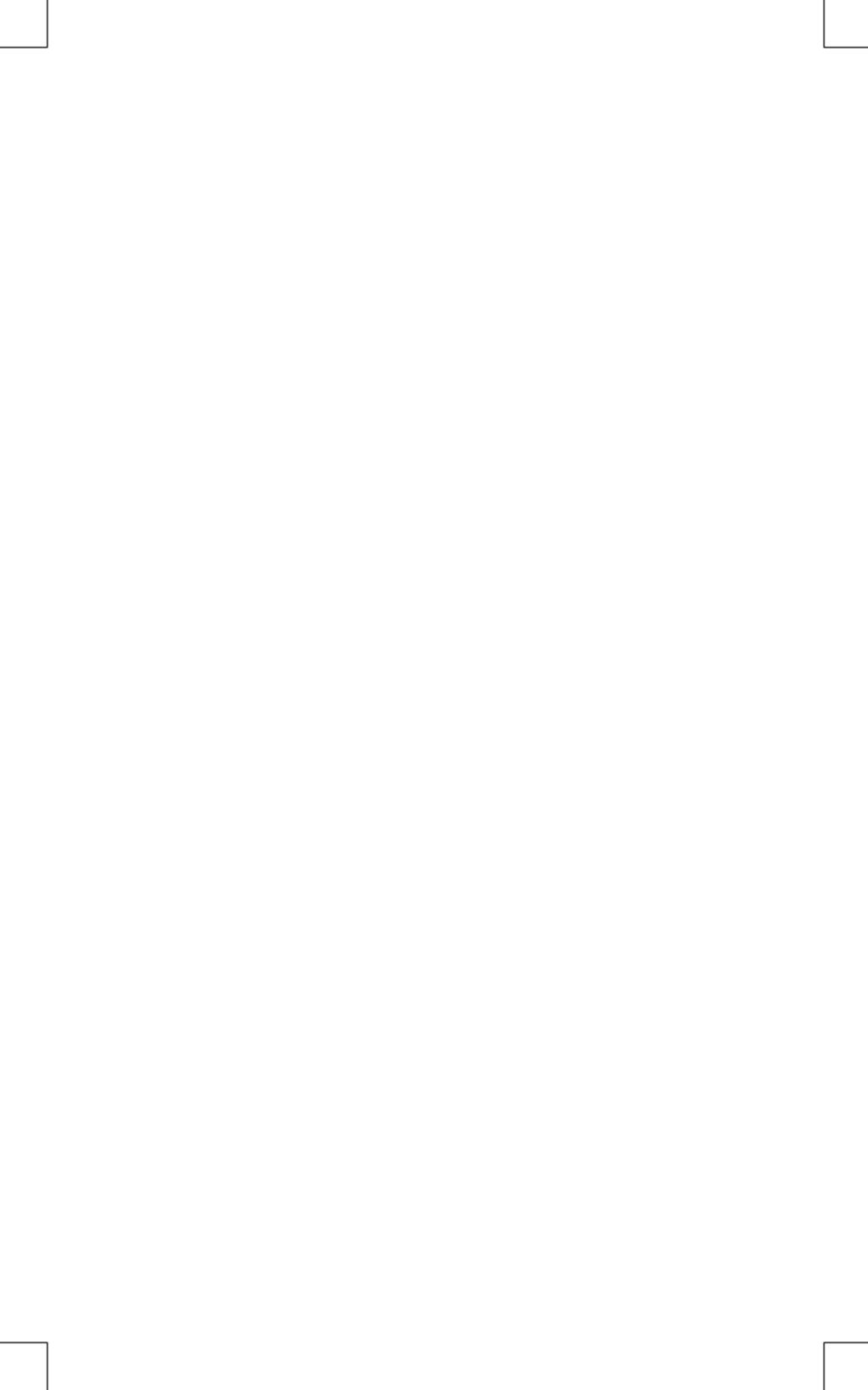
rectangle. Balancing 3 with 1 gives the balancing point P. Taking 3 plus 1 from the point P, we locate the mass 2 to balance them across the line PR which divides the rectangle in good proportion. The point p then becomes the balancing point for the entire group. Mathematically, 3 plus 1 equal 4; 4 is twice 2; therefore the mass 2 must be twice as far from the point P as the balanced masses 3 plus 1.

Two other combinations might have been worked out with the masses in Fig. 1E: 3 plus 2, balanced by 1, the mass 1 being placed five times as far from the point p as would the point P. Or 2 plus 1 might have been balanced by 3, in which case the distances would have been equal.

The application of these principles of balance to the problems of typography is largely a matter of influence. The typographer

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should be guided by them but he need not make mathematical calculations if his eyes be trained to judge relative attraction values so that he can arrange his various masses to secure balance.





Symmetry

When two parts of a design are equal in every respect so that if the design were folded over one-half would superimpose in every detail with the other half, then a state of symmetry exists and the design is said to be symmetrical. The line upon which such a design would be folded, or, in other words, the line which bisects a symmetrical design, is called its axis.

The printed page is often symmetrical with respect to its vertical axis (Fig. 1E). In Fig. 1E the line DE is the vertical axis of the page. It is rarely possible that the printed page can be

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symmetrical with respect to its horizontal axis. Such a state would involve a division of the page below its optical center and employed to emphasize the story to be told or the character of the arrangement used by the painter.





Variety

The absence of symmetry in a design gives it the character of variety, which may be defined as a state of inequality in the arrangement of the parts of a design.

In Fig. 17, neither the horizontal axis nor the vertical axis divides the page so that its units are symmetrically arranged.



Motion

In any arrangement, pictorial or decorative, the eye of the observer is attracted to various parts in succession, depending on their character and position with respect to each other. This quality, called motion, will be more pronounced as the several units tend to lead more definitely from one to another. Fig. 18 shows the path which the eye follows as it looks at the ornament. In pictorial composition the same quality is employed to emphasize the story to be told or the character of the arrangement used by the

painter. Then it is called line. This quality of design is not to be confused with action, which is the depiction of a figure in motion, as shown in Fig. 19.



Fig. 18. The diagram shows the motion of the eye as it perceives the design above. This motion is due to line entirely, not to accents of tone.



Fig. 19. Showing action in the figure depicted, without motion in design.

On the printed page the eye may be definitely directed from one unit to another through this quality of motion, which forms a very

valuable resources for the printer. Fig. 28 is a diagram of a simple use of motion; the eye progressing as indicated by the arrows through the masses which make up the page.

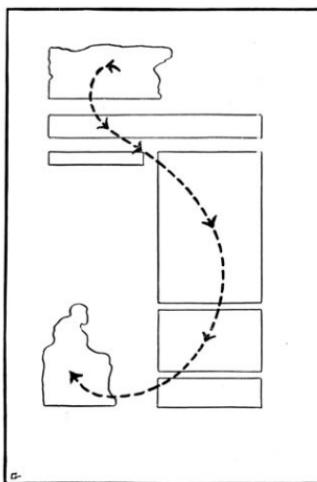


FIG. 28. Diagram of motion as employed in advertising to lead the eye progressively through a page.



Ornament

While the elements of design concern all the parts of a proposed scheme (on the printed page, its masses of type, decorative borders, head-band, initial letters, tail-piece, etc.) certain parts will be used solely to beautify the whole design. They ornament or decorate it. Ornament is a means by which Beauty or Significance is imparted to Utility.

Ornament may be either Symbolic or Esthetic.

Symbolic ornament consists of elements or forms chosen because they are significant of the purpose of

the design.

In Fig. 22, the ornament is symbolic in its close connection with the message conveyed by the type.

Esthetic ornament consists of forms chosen for their beauty alone. In Fig. 23, the head-band and initial are pleasing in design and they beautify the page without having the slightest relation to the text of the page.

Esthetic ornament characterizes the periods of design which have had the most important influence in the development of printing: the Greek, Roman, and Renaissance.

Symbolic ornament is found in Egyptian, Assyrian, Byzantine, Scandinavian, Celtic, Persian, Indian, Gothic, Chinese, and Japanese design. For intimate study of these various styles and periods the reader is referred to the various books

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listed in the bibliography.

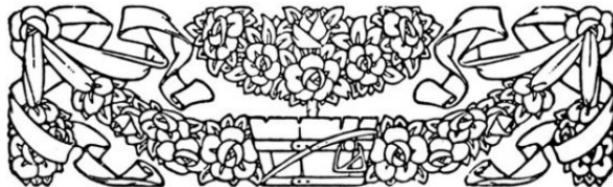


FIG. 21. Ornament designed with natural forms.

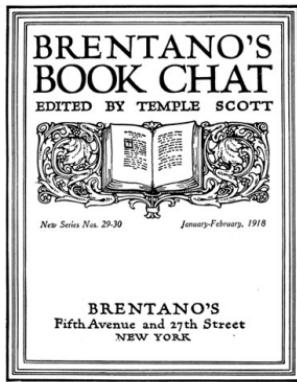


FIG. 22. House-carrier cover design by Mr. F. W. Goudy, in which the ornament is symbolic of the message of the page.

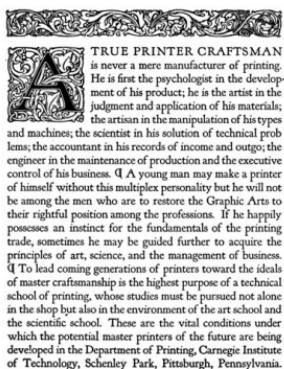


FIG. 23. Two pages decorated with aesthetic ornament. Much of the decorative material

available to printers is of this character, since the printer need not study its symbolic significance; he may choose such decoration for its qualities of tone and good drawing.

Ornament may be natural or inventive. Natural ornament consists itself to the rendition in decorative design of forms chosen from nature, either animate or inanimate. Inventive ornament consists of elements not derived from any natural source. It is usually geometric in character; that is, it is rendered in patterns and masses expressed in geometric shapes.

A SINGLE
DECORATIVE SPOT
OF GEOMETRIC
ORNAMENT



FIG. 24. TYPE BORDER USED AS GEOMETRIC ORNAMENT.



Fig. 25. Further use of type border to make a flat pattern or all-over design. Compare the offset with that shown in the facing illustration.

In the artistic development of the various races, geometric design has often been the result of religious restrictions upon the imitation of any animate forms. The Mahometans have developed it to its highest type of expression. Arabian and Moorish architecture and handicrafts are the best examples, with the crystal beauty of the Rihambra, the wonderful palace built by the Moors in Spain, as the supreme achievement of

GEOMETRIC DESIGN.

Geometrical design uses simple materials, being the oldest of the elements of decoration. The implements of savages and the 6 tattooing of the Indians prove this. From the first crude expressions of the original squares, circles, zigzag lines, and sundry simple

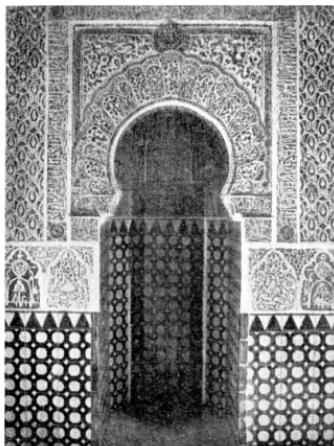


Fig. 25. A niche in the Rihetbra, at Granada, Spain. Showing characteristic Moorish ornamentation.

combinations, gradual development led finally to the delicate forms of Moorish design. The elaboration of this style involves deep

mathematical problems and careful draftsmanship.

The majority of geometrical ornaments may be divided into three groups. We find them in typographical material; these groups are bands or borders, made up visually of repeated units or spots; enclosed spaces or panels; and unlimited flat patterns or all-over designs.

In nearly every style and period of design the plant-world has been the biggest source of material for adaptation. The direct imitation of natural forms, keeping as much as possible of their shape, color, formation, etc., is called naturalistic design. A departure



Fig. 27. The development of a motif from text to a decorative spot. Diagram in the upper corner shows the geometrical arrangement of the material. The spot has been repeated to form a band.



Fig. 28. Development of the motif used in Fig. 27 into a natural ornament. The forms and growth are not distorted but the rendering is in flat surfaces to hold the decorative quality.

from the exact details of the natural forms, forming the design according to the rules

at rhythm and symmetry, with strict attention to regularity leads to a result more artificial in character. Whether the ornament you consider be naturalistic or artificial, the original source, which is the plant-form or other natural form from which the design was made, is called the motif of the design. It is interesting to survey the world about you and note how and there a recognizable motif in the designs at wallpaper, hangings, furniture, rugs, books, and especially throughout their works off mind.

The derivative is composed of the prefix *de*- and the verb *linne* 'bind'. The prefix *de*- is used here in its causative sense, meaning 'cause to bind' or 'loosen'. The verb *linne* is conjugated in the past tense, third person singular, with the suffix *-t*. The entire word is pronounced as /də̝lɪnneɪt/.

Domine quod misericordia
tribulat me: multi ini-
uetum me. **M**ulti dicunt an-
no est salus ipsi in deo eius.
dñe susceptor meus es: glorie
altas caput meu. **O** die in
minu clamaui: et exaudivit
te sancto suo. **E**go dormivi:
lumi: et resurrexi quia dñs lu-

Phenomenal
Diversity
Hawthorne
Differentiation
Prestige

T'he: sittuindienitt. orff dhaens ii gini ff ii hindis
tt'hcart. hi ii sittuoir ii choi ii sittuindiy orff hi ii sittuindiy
saulbi jievert. (chauimii ii levs) hi ii m t'hurindunglh
tt'hme renitt. ii rme hi ii sittuoiry orff ianitt.
ff ii hindis tt'hme (cavuindhe) (exp)peransis ii oihuis
orff parvehlh ii sittuoir ii c imilai (diorwih) tt'hme
II oihig ianndl whahr ii endi (chenittuun) ii levs. tt'orff
tt'hme sittuy II levs ianndl ff ianndi II levs orff
tt'hme parvesienitt. (dhaoyi .. Hie wi ii II II
ff ii hindis hi ii si tt'hme mae (c) II oihue II y
ii mttuerwhowih iwi II tt'hme sittuoiry orff
tt'hme (dherwih) II oipmienitt. orff imonelehs
tt'hme ip ii sile ianndl ff ioi II II orff
inart. ii oihuis " tt'hme wilhohi II e tt'hme II II II inog

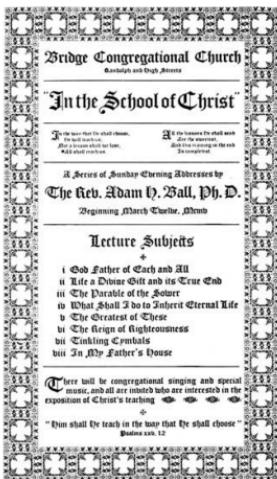
(d) *lambent* (off) *lambent* ii *lambent*. *lambent* *imondlement*
hi ii *isattoruy* ..

(P) *ir* ii *intt.* ii *ingj* .. (as) (a) *imendens* (off)
imalk ii *ingj* *imendens* (as) *lambent* (off)
imilbrendiy ii *ingj* *lambent* ii II *isatt. imort.* ii *ingj*
it. *harmonghi* .. *lambent* (g) ii *wenhi* *lambent* it. *harmonghi*
ii ii *idhe* off ii ie II id (off) II ii *temperatunne* (off)
idens ii *gini* .. *lambent* ii in it. *harmonghi* *imalk* ii *ingj* (off)
lambonlk is. *lambent* (off) *lambonlk* II ii *isatt.* ii *lambent* (off)
idens ii *gini* .. *lambent* ii in it. *harmonghi* *imalk* ii *ingj* (off)
is II II *isatt. hame* off (off) (as) (off) *par* ii *intt. end*
imort. tene .. *par* ii *intt. end* (as) ii *intt. end*
Giu *intt. bneurig* *harmonghi* *harmonghi* *lambent*
ii *inff* II *isatt. end* *lamb* *lamb* II *art*. ii *wel* II *g* off (off)
lamb it. *harmonghi* id ii *isatt.* ii *intt.* *par* II *lamb*
it. *harmonghi* *lamb* ii *lamb* *lambent*. *lambent* (c) *lambent* ..
lambent it. *lambent* off (off) *harmonghi* *lambent* II II *g*
lambent it. *harmonghi* *lambent* ii *isatt.* ii *is* off (off)
lamb ii *lamb* *par* II *lamb* *lamb* II *intt.* it. *harmonghi* *lamb*
it. *harmonghi* *lamb* II *intt. end* *lamb* it. *harmonghi* it. ii *lamb*
lamb par ii *intt. end* II ii *wend* ..

(T) *o* it. *lambent* it. *harmonghi* *lambent* II *lamb* (as) (off)
idens ii *gini* it. *harmont*. *harmonghi* *lambent* II
ii *inff* II *isatt. end* *par* ii *intt.* ii *ingj* II is it. *lamb*
II II ii in *lambent*. it. *harmonghi* hi ii *isatt. bneurig* (off)
it. *harmonghi* *lamb* off (off) .. (S) *lambent* it. *harmont*,
isatt. bneurig .. II is (d) *lambent* II *lamb* (as)
ie II *she* *lambent* .. II in it. *harmont* is *she* II (as),
isatt. bneurig .. it. *lamb* it. *lamb* off II II *lamb* II *lamb* II *g*
it. *harmonghi* *lamb* *lamb* it. *harmonghi* *lamb* ii *lamb* it. *harmonghi*
lamb ii *ingj* (off) *lambonlk* is. *lambent* *lamb* (as) *lamb* ..

Si ii inhere	it.hue	ii inwherart. ii (ori)	orff
imorwaiib	ii (e)	it.giphers	(chamme)
oipipioritiumne	ii (y)	it.o	inherart.
dheis ii rne	ffour	ieni II ii gihitt.ehimmehart.	Ibyg
inheromis	orff	Ibromalk isi ..	ii tt. whors
inart.uimai	II	it.huart.	pir II inrt.endl
silhouou	II (d) Ible	ji	Ibromalk isi
ii mi ii tt.art.e	it.hue	Ibromid-iwar	ii tt.tenni
II eart.tiemend		Ibromalk isi ..	Thuersie
II iart.tiem	..	Ihaw II inig	Ibrenni
ffour	ciehitt.uim	pirovoduhend	pirovoduhend
it.hue	cethuurethi	it.o	whors
gi ii whens	it.tari II in ii inig	ii in	it.hue
Ihand	Ibrenni	Ibrenni	Ih
itt.art.e	orff	piemifendt. ii (ori)	ii in
dheis ii gini ..	II tt.	Ihors	orff't.ierni
shai ii id	it.huart.	Ghurt.ienibreingj ((s))	ffourtt.yj-
it.wio	II ii inre	Idi ii ibi II (e) ..	oriine
ff ii rwest.	Ibromalk isi	pir II inrt.endl	ffirnomi
it.yppre ..	Ihors	inewher	Ibrenni
siuirphonskend	ii in	piuure	Ibrennurty
dheis ii gini	ianid	ii in	it.hue
qjuna II ii t.yj	orff	ii tt.s	it.yppre
Ghurt.	it.hue	ff ii rwest.	Ibromalk isi
ffirnomi	it.yppre	wher	ia II
rene II ii gii oruis	iehauorett.eim ..	ianid	it.hue
it.yppre	ii tt.s	ff	whors
ii mi ii tt.art.e	it.hue	IbI	anid
((theaxt.((II eart.tiem	ffirnomi	whi II ieht
Ihand	Ibrenni	diehwe	orffend

SUPERVISOR: The supervisor is responsible for



If I sing... Sing... Ah! plongier fermoir dans le tableau intérieur
If I am in the monologue it will off there in addition to 1 fifth
Dictionnaire... silhouettes singing characters their situation the importance
off all visitors off the point point dictionnaire off the... This is point



If I (g) ... 312... The type off the Mariana Islands is described as follows:

ii in ii tt. ii in II I eartt.terris. with ii ethi iniorik end
tt.hue isauhndirg id ii w ii si ii oinns. orff
tt.huewighitt. wherle inepheort.end iby tt.hue
reionr II yl pur ii inrt.terris. skomment. ii iners. tt.hue
Ibe ii II I uini ii inend iby ihorind onind
II iort.terris. iots reingjiraw ii higis. iotni iniorind
iour iment.ii .. T huerie whors. inor
id ii sitt. ii inent. idherphairt.urne iff.riodri tt.hue
reind II levi ii consit. ii choi II sitt.yl II le orff
imorink si isauhndirg iots
inendressi ii t.ort.terdi iby
imencihaini ii choi II II im ii t.ort. ii oinns. orff
tt.hue inewi pimocidressi orff pur ii inrt. ii hig
Hienhie idarne id sitt.yl II le wilhi ii ethi
imorink end tt.hue iff ii rnsitt. yleorins orff
pur ii inrt. ii hig wilii t.hue ii orff II inerhie
orff tt.hue ethiunethi .. Alind tt.hueart.
sitt.yl II le tt.ordhany choini Ibe remibond ii end

THE GLORY OF
THE ROMAN ALPHABET LIES IN
ITS CAPITALS WHILE THAT OF THE
GOTHIC TEXT-LETTER LIES IN ITS
LOWER CASE. THIS IS BUT NATU-
RAL AS THE ROMAN ALPHABET
ORIGINALY WAS AN ALPHABET
OF CAPITALS ONLY

If i g... 313... Rheinpiriondioridit. i iron i off. i or i phangia. i firmati
Ghentienhilsbergi (is. 412-). i iron i off.
Ironi i bneien i sion i off. i off. i iron. i iron. i iron. i iron. i iron. i iron.
Ironi i iron.
Ironi i iron.
Ironi i iron.
Ironi i iron. i iron.

concur. concur. concur. concur. concur. concur. concur. concur.

leinhardt. Winters (girtoni) II in (g) .. Fünfz. wi II t.hi
 t.hine (supernatural) orff (par II in t. II in g) II in t. o
 II t.o II (g) .. Wilh. (par II in t. e) (s) (shouting) h.t.
 (firemen) ff II e II (d)s .. t.hine (e)
 (sitting) II (g) h.t. (whom) (c) (dome) (o) (mains) (end)
 (ethanol) (g) II in II t.s (unseen) T.hine (ff II in s) t.
 (Rhenan) (t.y) (p) (Winters) (court) (around) t.hine
 (par II in t. e) (girtoni) (un)dienst t.hine
 II inff II (un)dienst (orff) t.hine (mains) t.
 (s) (p) II (around) II (d) (p) (e) (d) II in t.hine
 h.t. II (sitting) (orff) (around) .. t.hine II t.o II (around)
 (Rhenan) II (un)dienst .. t.hine (new) II (what) (around)
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 (p) (e) (d) II (s) (h) (e) (d) t.hine (ou) (g) h.i
 (c) (e) (d) (un) II (e) (s) .. T.hine (p) (un) II (t.y) (orff)
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 (p) (e) (d) II (ff) (e) (d) (p) (un) (around) (with) II (c) (h) (h) (around)
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 (when) (new) II (what) (around) II (in t. e) (p) (un) (around)
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 t.hine II t.o II (around) (orff) t.hine
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Winters II (s) (Girton) (mains) (g) .. Fünfz.
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 (in II (t.h) II (t.h) II (ff) II (in) II (ff) (ff) (around) (s) .. (s) (o)
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Hi si iff i iresit. Romanum t.yppie
 iersit. id i silhend. id ipmendendemnt.
 with i celi hours id i wend. it.o it.hie
 pmendemnt. idony.

Densi i gneis. orff it.ordony iff i mid
 i hispi i ract. i oin i in it.hie i oin i c.
 lexpi i versi i oin orff it.hie. Gneek i ior
 pur i mthend. whorik with i celi i si it.o ibe
 si i mi i i am i y iersit. i mid i mid
 id i gni i f i end. T yppie i f i chens. knowle
 brenni i dierwe i oipend. with i celi i our
 id i srt. i mid. i y i oin i c. i in
 effe i i nq. i eath i inq. it.hie i ent. i er
 efformis. orff it.hie i mscir i ptt. i oin i
 with i celi i wher i court. i in i srt. i onne i by
 Greek and Roman artisans.
 (Figs. 35-6.)

The design of the Renaissance has been embodied in the books of many nations. Indeed, it may be said that modern book design dates from the start of printing in Italy. But, just as the fine arts have never since flourished as they did in that resplendent period, so has the progress of design in printing been a matter of the work of individuals or

limited groups rather than the character of a period or a national expression.

The voluptuous vagaries of the successive French periods of design gave little lasting distinction to contemporary printing. Type faces were cut at various times and by men of different nationalities which

EXCELSIOR
A
Midsommer nights
dreame.

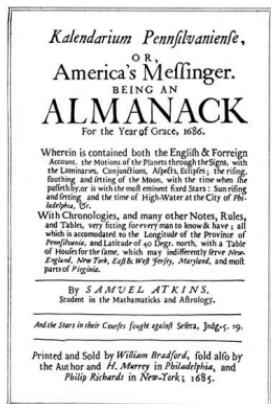
As it hath beene fundry times pub-
licly acted, by the Right honoura-
ble, the Lord Chamberlaine his
servants.

Written by William Shakespeare.



*Imprinted at London, for Thomas Pavier, and are to
be sold at his shoppe, at the Signe of the White Hart,
in Fleetstreet. 1600.

FIG. 34. Ecclesiastical style in modern typography.



have marked characteristics, but they are not to be noted as establishing periods or styles in printing.

Fig. 35. An inscription in Classic Roman.
Study opposite illustration.

In the seventeenth and eighteenth centuries printing in England grew into forms of expression which have been recognized under the term of Georgian or colonial. The first editions of Shakespeare typify the earlier development of this style, which was marked by poor typographical materials that were nevertheless arranged in a direct and interesting manner. (Fig. 37.)

A few years later the growth of printing in the American colonies brought this form of typographic Pg 510 expression into most of the printed matter which has been preserved. The museums of printing and the literature dealing with the times are rich with examples. See Figs. 39 to 41.

Through the ensuing decades printing developed mechanically, but it lapsed into styles which had little or no relationship to design. It is interesting historically to follow the efforts of the printers who rode on the first steamboats and railroad trains; who recorded the rise and fall of slavery and secession; who bent their rules and jumbled their type faces during the early Pullman days that marked the start of many modern successful printers. The history of the craft through all these times has

been picturesque and closely identified with the growth of the country. But it has little or no significance for the designer.

Design in printing has suffered through the marvelous mechanical development of machines and devices whose sole purpose has been to multiply gross output. Necessary as sheer volume of

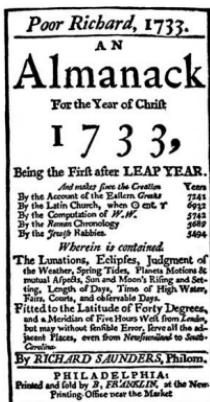


Fig. 36. Forum, a classic Roman type, designed by Mr. F. W. Goudy.

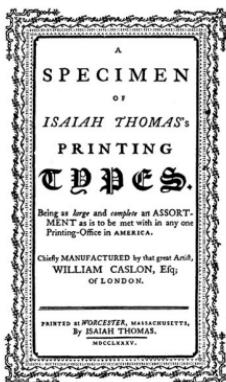


Fig. 37. Title page, much reduced, of a Shakespeare first folio, showing the Georgian style of typography. The types were poorly fitted and of uncertain alignment. The stock ornaments, cut on wood, were often bruised and worn. Yet there is undeniable charm in the result.

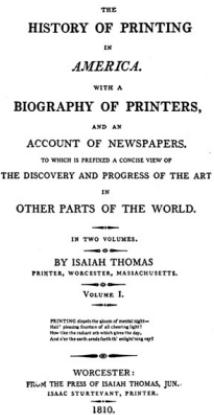


Fig. 38. An early American page, dated 1685, showing the influence of the Georgian style upon the Colonial printers. An improvement in mechanical quality may be noted. Large capitals, a profusion of italics, and frequent use of cross rules mark this period of printing.

production has been, it has remained for very recent years to witness a renewal of interest in the beauty of printing, as determined by the principles of design.

William Morris, in England, devoted a very few years, toward the end of his life, to a protest against the commonplace and mechanical qualities which had dominated printing previously. He revived many of the old traditions and marked his books with his strong personality. We owe much of our present widespread reverence for good design in printing to his influence, even as we are similarly indebted to him for the well-designed and useful appurtenances of our daily life which have supplanted twisted and distorted furniture, stuffed birds under glass jars, and all the atrocities of a generation or two ago. See Figs.

Among the present-day designers of printing whose work shows an intimate study of the principles and the traditions of the craft are such men as Rogers, Updike, Soudy, Cleland, and Currier. The product of their work may frequently be seen in reproductions in the trade publications. It should be studied by younger designers, for it shows the results of earnest and understanding effort to make modern printing reach and even pass the artistic standards which were established nearly five hundred years ago.



Fig. 39. Page from Poor Richard's Almanack, one of the best known of the



Colonial publications. Its style is typical of that period.

THE DOOR
IN THE WALL
And Other Stories

BY
H·G·WELLS

ILLUSTRATED
WITH PHOTOGRAVURES FROM
PHOTOGRAPHS BY
ALVIN LANGDON COBURN



NEW YORK & LONDON
MITCHELL KENNERLEY
MCMXI

Fig. 40. Illustrating the period of transition from the true Colonial style. Type and material are obviously improved in mechanical qualities, but the compositor must have been seeking for something new in typography.



FIG. 41. SHOWING A TYPICAL TITLE PAGE composed at the beginning of the decline of typography in America. During almost the entire 19th Century there was neither reason nor design in most of the printing produced.

MEMORIAL EXHIBITION
OF THE WORKS
OF
AUGUSTUS SAINT-GAUDENS

2

BERNARD P. E. SAINT-GAUDENS
Bronze bust, signed and dated 1867. H. 15 in.
Three-quarters size, directed and looking left.

Inscription
BERNARD P. E. SAINT-GAUDENS.

Signature
A. ST. G. FECIT. 1867.
Lent by Mrs. Augustus Saint-Gaudens.

Note. Father of the sculptor.

3

SILENCE
Marble statue, signed and dated 1874. Elfinic
size. Female figure standing, dressed in long chiton,
directed and looking to front; over the head a cloak
which partially covers the face; the right hand
raised, forefinger on lips; the left fore-arm raised
and extended.

Signature (in script)
AUG. ST. GAUDENS FECIT. ROMA 1874.
*Lent by the President and Trustees of the Grand
Lodge of Free and Accepted Masons of the State of
New York.*

FIGS. 42 and 43. Frontispieces from *The Tale of Beowulf*, as designed and printed by William Morris. The small reproductions give but a suggestion of the Morris conception of book-making.

After a century or more of the most haphazard printing,

Morris revived the traditions
of the first book-makers,
thereby stimulating a world-
wide renewal of interest in
typography and design.





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- A Manual of Historic Ornament, By Richard Giazier, B. T. Batsford, 94 High Holburn, London.
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Sons, London.

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By Lewis F. Day, Scribner's,
New York.

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F. Day, D. T. Datsford, 94
High Holburn, London.





REVIEW QUESTIONS SUGGESTIONS TO STUDENTS AND INSTRUCTORS

The following questions, based on the contents of this pamphlet, are intended to serve (1) as a guide to the study of the text, (2) as an aid to the student in putting the information contained into definite statements without actually memorizing the text, (3) as a means of securing from the student a reproduction of the information in his own words.

A careful following of the questions by the reader will insure full acquaintance

with every part of the text, avoiding the accidental omission of what might be of value. These primers are so condensed that nothing should be omitted.

In teaching from these books it is very important that these questions and such others as may occur to the teacher should be made the basis of frequent written work, and of final examinations.

The importance of written work cannot be overstated. It not only assures knowledge of material but the power to express that knowledge correctly and in good form.

QUESTIONS

1. What purpose in the works of mankind is served by design?
2. In what manner does design influence man's handiwork?
3. What is design?
4. What is a design?
5. What is the difference

- between beauty and fitness to purpose?
6. What are the elements of design?
7. What relationship has a printer to a sculptor, an architect, a painter, a decorative designer?
8. How does the printed page limit its design?
9. What is the difference between a printed picture and a printed design based upon that picture?
10. Why are pictures unsuitable to decorate a printed page?
11. What are the materials of design?
12. Analyze a well-designed typographical ornament into the materials which compose it. When the materials of design are put to use, what conditions must be satisfied in their arrangement?
13. What is harmony?
14. What is balance?
15. What is proportion?
16. What is rhythm?
17. How may the foregoing qualities be demonstrated?
18. What shapes should be

used in combination?

20. What further relationship should they have?

21. On a type page 20 picas wide by 30 picas deep would a panel 10 picas wide by 6 picas deep be proper? What, if anything, would be preferable?

22. Would a rule line 6 points wide be suitable to surround a mass of 10 point Caslon old style caps? Why?

23. If the printed page is to be other than black and white, what further consideration of harmony is involved?

24. What must we consider in related areas with respect to their size or measure?

25. What relationship of sizes is often most interesting?

26. Place a single line on a cover page in a desirable position.

27. Is the eye always to be trusted in the judgment of space relationships?

28. Should mathematical measurements or the effect upon the eye be the guiding

- factor in arrangement? Why?
30. What is the effect of the surrounding edge or border upon the masses of a design?
31. How should the masses in a design be arranged with respect to the surrounding edge? What mathematical principles influence this arrangement?
32. How is equality in the halves of a printed page sometimes desirable and sometimes not?
33. When there is no equality in the halves of a design, what condition exists and what principles must guide such an arrangement?
34. What is ornament?
35. What qualities may ornament possess? Define them.
36. In what periods of design does each quality appear most pronouncedly?
37. How is ornament related to nature? To inventiveness or ingenuity?
38. How is ornament related to mathematics?
39. What are the important divisions of mathematical

ornament?

Q9. What happens when an ornament is developed from a natural source?

Q11. What is the source called? Q12. What periods of design have most affected printing? Why?

Q13. Explain how each of the above periods influences modern typography.

Q14. What should be the typographer's attitude toward the activities of designers of every age and period?

Q15. What has been the effect of mechanical development in printing upon typographic design?

Q16. Name some of the modern men whose work is of interest to the typographer.





GLOSSARY TERMS OF DESIGN AS APPLIED TO PRINTING

Assurian (Art)

The Assurian Empire lay in Southwestern Asia between the Tigris and the Euphrates, now part of Turkey in Asia. Its art was largely expressed in the treatment of flat surfaces, using enameled bricks, painted stuccoes, floured bronzes, etc. Bricks were the only building material. The period dates from 4000-3000 B.C. to about 500 B.C.

Attraction

The force exercised upon the eye by a mass through its

Vendredi.ttf

tone, color, size, or shape;

Axie

A line dividing a surface for purpose of comparison or construction;

Balance

An apparent state of rest between the various attractions in a design. To balance the elements of a design is to arrange them so that they are set at rest with one another;

Byzantine (Art)

The art of Eastern Christendom, from the time when Byzantium (now Constantinople) became the capital in 330 A.D. until the taking of the city by the Turks in 1453 and even later. Byzantine art embodied Asiatic luxury in splendor and in profusion of color and gold. Its forms of design were purely geometrical and conventional, with no use of the human figure;

Celtic (Art)

Particularly active in the fourth century among the people of what are now the British Isles. It was influenced by Central Asia and Persia, and is thus somewhat oriental.

Chinese (Art)

Characterized by the use of fantastic forms and brilliant color. Best exemplified in porcelains, lacquers, and carvings in wood and semi-precious stones. The source of inspiration of the Japanese who have commercialized and cheapened it in everything from household articles to prints.

Classical

The period of antiquity of Greece and Rome.

Commercial Art

Found in the printing and allied applied arts, and in the advertising business, and in book and

that they have. This will give them a better chance to write a good composition. Their journal entries will help them to understand their writing better.

Journal

The children will begin a journal entry every day. This will help them to learn how to write better.

Composition

The children will write a composition every day. This will help them to learn how to write better.

Handwriting

They will copy out a sample of handwriting that is good handwriting.

Reading

The children will read a book that is good for them to read. They will read it over and over again until they know it well. They will also read a book that is good for them to read. They will read it over and over again until they know it well. They will also read a book that is good for them to read. They will read it over and over again until they know it well.

The children will read a book that is good for them to read. They will read it over and over again until they know it well. They will also read a book that is good for them to read. They will read it over and over again until they know it well.

They will read a book that is good for them to read.

and to make it easier for the law enforcement机关
and the public to understand your message. Because
I am not going to do that.

Example 1: Article 1

This is another article you could write if you
are trying to encourage the Egyptian authorities to make
a decision. It is 4000 words long. The message
is to let the Egyptian authorities know that 500,000
Egyptians are supporting the proposed
constitutional amendment. This article
should be used as a model for writing other articles
that you can use to help you get your
message across. This article is just one example
of the many ways you can use this article. The
article is written in English, so it is easier to
translate it into Arabic or any other language
than English.

Article 2

This is another article you could write if you
are trying to encourage the Egyptian authorities to make
a decision. This article is 3000 words long. The
message is to let the Egyptian authorities know
that 500,000 Egyptians are supporting the proposed
constitutional amendment. This article is just one example
of the many ways you can use this article. The
article is written in English, so it is easier to
translate it into Arabic or any other language.

Article 3: Article 1 (5400 words)

This is another article you could write if you
are trying to encourage the Egyptian authorities to make

Ward 1: 1990-1991
Ward 2: 1991-1992
Ward 3: 1992-1993
Ward 4: 1993-1994
Ward 5: 1994-1995
Ward 6: 1995-1996
Ward 7: 1996-1997
Ward 8: 1997-1998
Ward 9: 1998-1999
Ward 10: 1999-2000

Figure 1. A schematic diagram of the experimental setup used to measure the effect of the magnetic field on the thermal conductivity of the nanocomposites.

[View Details](#)

Two hundred and five English and
Canadian firms have during the last
two years and a half undertaken
work for Canada.

Final Summary

Winnipeg	100	100
Calgary	100	100
Vancouver	100	100
Toronto	100	100
B.C.	100	100
Alberta	100	100
Manitoba	100	100
Saskatchewan	100	100
Newfoundland	100	100
Quebec	100	100

— 1 —

The following table gives the results of the experiments.

Virus

370 B.C., the world would never be the same again. The Persian Empire had been overthrown by the Greeks, and Alexander the Great had taken the lead in leading the world into a new era of history. This was the start of the Hellenistic period, which lasted until the fall of the Roman Empire in 476 A.D.

For more information about the U.S. Department of Energy's Office of Fossil Energy, visit fossil.energy.gov.

1 Pw 70 jH u u u u u

The four-jointed stalks of the *Urtica* and the *Urticaria* are covered with small, sharp, pointed, hooked, and serrated hairs.

The last of the early traditions on
Tradition, which have been mentioned
so far, are the following:—
1. The legend of the origin of
the name of the town. This legend
is as follows:—
The town was founded by a
man named Tradition, who
was a native of the town.
He was a very good man,
and he lived a long time.
He died at last, and his
name was given to the town.
This is the legend of the origin
of the name of the town.

Individual Duties

For every individual, there is one main role or duty which they must play during ground control. You never know what type of emergency or situation you will face, so it is important that everyone in the flight deck can be called upon to perform their specific roles in order to maintain safety in flight.

Flight Deck Duties

The flight deck crew consists of the captain and first officer, who are in charge of the aircraft's flight plan and navigation, and the flight engineer, who is responsible for the aircraft's systems and maintenance. The flight deck also includes the flight attendant, who is responsible for passenger safety and comfort.

Flight Attendant Duties

The flight attendant's main duty is to ensure the safety and comfort of passengers. They are responsible for providing food and drink, as well as assisting passengers with any medical emergencies.

Other

There are other people involved in flight operations, such as air traffic controllers, who manage the flow of aircraft in the sky, and maintenance crews, who keep the aircraft in good condition. These individuals all work together to ensure that flights are safe and efficient.

Winglet ULR

Winglet ULR

Winglet ULR w/o F-Delaying

Winglet ULR w/o F-Delaying: When the first flight is delayed, the second flight is delayed by the same amount of time as the first flight.

Winglet ULR w/o F-Delaying: When the first flight is delayed, the second flight is delayed by the same amount of time as the first flight.

Winglet ULR w/o F-Delaying

Winglet ULR w/o F-Delaying: When the first flight is delayed, the second flight is delayed by the same amount of time as the first flight.

Winglet ULR w/o F-Delaying

Winglet ULR w/o F-Delaying: When the first flight is delayed, the second flight is delayed by the same amount of time as the first flight.

Optimal ULR w/o F-Delaying

Optimal ULR w/o F-Delaying: When the first flight is delayed, the second flight is delayed by the same amount of time as the first flight.

Optimal ULR

5. Winglet For the winglet of the aircraft.

Precise definition:

The part of the wing which is positioned at the end of the main wing, which is used to increase the lift of the aircraft. It is also used to reduce the drag of the aircraft by increasing the lift-to-drag ratio.

Precise definition:

The part of the aircraft which is located at the end of the main wing, which is used to increase the lift of the aircraft. It is also used to reduce the drag of the aircraft by increasing the lift-to-drag ratio.

Precise definition:

The part of the aircraft which is located at the end of the main wing, which is used to increase the lift of the aircraft. It is also used to reduce the drag of the aircraft by increasing the lift-to-drag ratio.

Precise definition:

The part of the aircraft which is located at the end of the main wing, which is used to increase the lift of the aircraft. It is also used to reduce the drag of the aircraft by increasing the lift-to-drag ratio.

Precise definition:

The main problem is that the two types of leg bones are very similar in shape and cannot be distinguished by morphological characters.

■ Posterior Dorsal spine

The posterior dorsal spine is a small, elongated, slightly curved spine, situated dorsally on the second abdominal segment. It has a rounded tip and a slightly flattened base. There is a small longitudinal depression along the midline of the spine. The spine is located ventrally to the first abdominal tergite and posterior to the first abdominal sternite.

■ Spine

The spine is located ventrally on the second abdominal segment, just anterior to the posterior dorsal spine.

■ Posterior Dorsal spine & Dorsal spine

The two spines of the second abdominal segment have a similar shape and cannot be distinguished by morphological characters. They are both elongated, slightly curved spines, situated dorsally on the second abdominal segment. The posterior dorsal spine is located dorsally to the first abdominal tergite and the spine is located ventrally to the first abdominal tergite.

■ Abdominal spine

The abdominal spine is a small, elongated, slightly curved spine, situated ventrally on the second abdominal segment. It has a rounded tip and a slightly flattened base. There is a small longitudinal depression along the midline of the spine. The spine is located ventrally to the first abdominal tergite and posterior to the first abdominal sternite.

■ Abdominal spine

The abdominal spine is a small, elongated, slightly curved spine, situated ventrally on the second abdominal segment.

Weight Loss

When the body is deprived of glucose, it begins to break down fat reserves. For example, 100g of fat will yield 90g of glucose when broken down.

Tumors

The cancerous tumor cells need a lot of energy to maintain their growth and spread. Tumor cells will hijack normal cells to supply them with glucose.

Vaccines

The immune system has a built-in mechanism to identify foreign cells and eliminate them. Tumors are usually detected early because they are surrounded by a layer of immune cells.



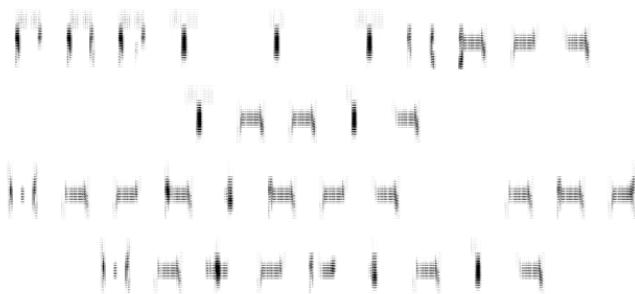


The following table gives the
percentage of illiteracy in each State.
The figures are taken from the latest
Census Report. The figures for
each State and the total number
of illiterates are given. The
percentage of illiteracy in the United
States is 12.5 per cent. The
percentage of illiteracy in
the United States is 12.5 per cent.

which have been written by Mr. T. and Mr. H. are
now being published. These
will provide the
public with the
best information.

The probability of success of the
first attempt at a new technique is about 50%
in a given situation. This is generally a
probabilistic process. The probability of being
successful will increase as more information
is gathered, and this will be reflected in the
length of time necessary for the improvement. If
the first attempt is successful, the probability of
success of the second attempt is about 70%, and
so on. This is a general rule, but it must be
modified by the individual's experience and
ability to learn. The probability of success
will also depend on the quality of the
information available.

For more information about the study, contact the National Institute of Child Health and Human Development at 301-435-0911 or visit their website at www.nichd.nih.gov.



（三）用重音和轻音的对比，以示“虚”与“实”。如重音用以强调事
件，而轻音用以强调时间、地点、人物等。如“他今天中午在公园里打
太极拳”，重音在“打太极拳”，轻音在“他”、“今天”、“中午”、“公园里”；
又如“他今天中午在公园里打太极拳”，重音在“打太极拳”，轻音在“他”、“今
天”、“中午”、“公园里”。

二〇一九年二月二十一日

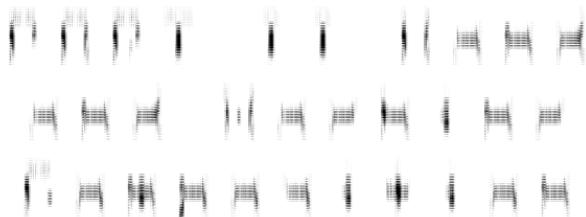
卷之三

二十一
二十二
二十三
二十四
二十五
二十六
二十七
二十八
二十九
三十
三十一
三十二
三十三
三十四
三十五
三十六
三十七
三十八
三十九
四十
四十一
四十二
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四十四
四十五
四十六
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九十七
九十八
九十九
一百

因此，本章将通过一个具体的案例来说明如何利用

三、同上。中同上。中同上。中同上。中同上。中同上。
中同上。中同上。中同上。中同上。中同上。中同上。
中同上。中同上。中同上。中同上。中同上。中同上。
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（三） 丹凤县河东乡河东 一村二村 二村
二村二村 二村二村



第二回 蘭言巧舌報冤仇
第三回 素心急智解危難
第四回 深情厚意暖人心

丁巳行同同中同同中 重同同集 丁同同丁同同
同同同同同同 丁同同中同同同中 丙中 丁同同丁
同同同同同同中同同中 丁同同中同同同中 同同同
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同同中同同中 丙中同 丙中同 丙中同同中同同中 丙中

卷之三

三三三

— 1 —

— 1 —

ЛЮДИ И ЖИВОТНЫЕ
ХОДЯЩИЕ
ЧИСЛА

Он — **БАШКАРДА** — **БАШКАРДА** — **Он**
БАШКАРДА — **БАШКАРДА**
БАШКАРДА — **БАШКАРДА** — **БАШКАРДА**

БАШКАРДА — **БАШКАРДА**
БАШКАРДА — **БАШКАРДА** — **БАШКАРДА**

KOMOEDIE

REINHOLD VON KLEIST

DR. JULIUS VON KLEIST

MARIA VON KLEIST

Die Maria von Kleist ist eine sehr interessante

Personlichkeit und ein sehr interessanter

Geist. Sie ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist. Sie ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist.

Die Maria von Kleist ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist.

Die Maria von Kleist ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist. Sie ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist. Sie ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist.

Die Maria von Kleist ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist.

Die Maria von Kleist ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist. Sie ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist.

Die Maria von Kleist ist eine sehr interessante Personlichkeit und ein sehr interessanter Geist.

— 1 —

16. *Leucosia* *leucostoma* *leucostoma*
17. *Leucosia* *leucostoma* *leucostoma*
18. *Leucosia* *leucostoma* *leucostoma*
19. *Leucosia* *leucostoma* *leucostoma*
20. *Leucosia* *leucostoma* *leucostoma*

Example 1: Suppose the probability of a randomly selected individual having a certain disease is 0.05. If we select a random sample of size 100 from the population, what is the probability that at least one person in the sample has the disease?

— 1 —

W. H. D. B. C. G. H. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

A horizontal ruler scale from 0 to 10 cm. The scale has major tick marks at every centimeter and minor tick marks at every millimeter. The numbers are in black on a white background.

■ The point of view presented here
represents the personal view of the author.
It is not necessarily the view of the
University of California.

The proportion between the two
homologous groups may be compared
with that of the corresponding
groups in the primary homologous
series, which is the proportion of
the number of the first to the
number of the second.

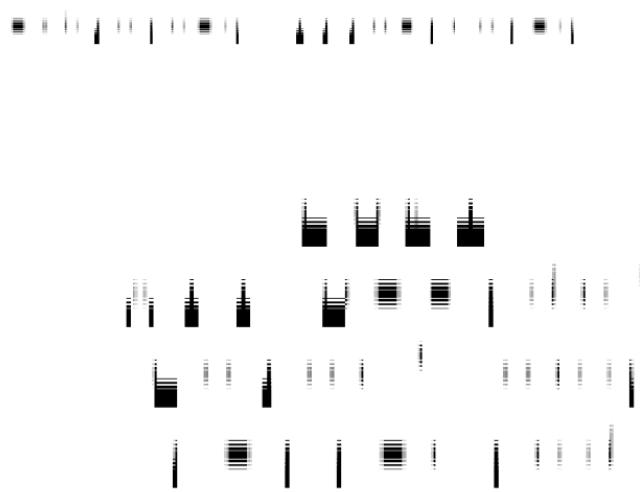
The proportion of the first to the
second will be the same
as that of the corresponding
groups in the primary homologous
series, provided that the
proportion of the first to the
second is the same in both
the primary and secondary

homologous series. If the
proportion of the first to the
second is different in the primary
and secondary homologous series,
then the proportion of the first to the
second will be different in the
primary and secondary homologous

series, provided that the
proportion of the first to the
second is the same in both

the primary and secondary
homologous series.

The proportion of the first to the
second will be the same in the
primary and secondary homologous
series, provided that the
proportion of the first to the
second is the same in both



the same sample was analyzed by gel electrophoresis. The results are shown in Figure 1. Lanes A, B, and C show a prominent band at approximately 1.5 kb, whereas lane D shows a very faint band at the same position. This indicates that the sample in lane D contains a low level of the target DNA sequence. The presence of a band at approximately 1.5 kb in lanes A, B, and C suggests that the target DNA sequence is present in these samples at a level sufficient for detection by the method.

to provide a more appropriate
explanation. In addition, we present our
findings in light of the literature on
parenting and parenting among
adolescents. We also discuss the implications
of our findings for interventions to
improve parenting among adolescent
mothers. Finally, we conclude by discussing
the strengths and limitations of our study.

We begin by describing the sample and
procedures used to recruit participants.
We then describe the characteristics of the
participants and their families. Next, we
present findings on parenting among
adolescent mothers. Finally, we conclude by
discussing the strengths and limitations of
the study and its implications for interventions
to improve parenting among adolescent
mothers. This article is the second in a series
of three articles that report findings from
a study of parenting among adolescent
mothers. The first article reported on
adolescent mothers' attitudes toward
parenting and family life (Wilson,
1998). The third article will report on
adolescent mothers' social support and
their social networks.

— 1 —

the first three points of agreement
and disagreement
are agreed upon without any
preceding debate.
The fourth point of agreement
implies that the two parties
will not proceed to
any further negotiations
until the third point has been
fully implemented.
The fifth point of agreement
implies that the two parties
will not proceed to
any further negotiations
until the fourth point has been
fully implemented.
The sixth point of agreement
implies that the two parties
will not proceed to
any further negotiations
until the fifth point has been
fully implemented.

— 1 —

10 **11** **12** **13** **14** **15** **16** **17** **18** **19** **20**

and the people of the world have been compelled to submit to the will of the United States.

100 **200** **300** **400** **500** **600** **700** **800** **900** **1000**

— 1 —

• the power of the people to open
the pedagogical way to the past
the genealogies of the past
the genealogies of the present
and the future of the people
the dream becomes a truth

• Specified period of time period
• End point known known to be
the same time as the last
specification

W 00000000

• **PERIODICITY** - periodicity is the ability to repeat a process over and over again.

19. *Leucosia* *leucostoma* *leucostoma*
20. *Leucosia* *leucostoma* *leucostoma*
21. *Leucosia* *leucostoma* *leucostoma*
22. *Leucosia* *leucostoma* *leucostoma*
23. *Leucosia* *leucostoma* *leucostoma*
24. *Leucosia* *leucostoma* *leucostoma*

the first time in history that the people of the United States have been compelled to pay for their freedom.

— 1 —

the upper portion of the upper
cervical spine and the upper
portion of the middle cervical spine
and the upper portion of the lower
cervical spine. The upper portion
of the upper cervical spine is
approximately 10 degrees.
The upper portion of the middle
cervical spine is approximately
15 degrees.
The upper portion of the lower
cervical spine is approximately
20 degrees.
The middle portion of the upper
cervical spine is approximately
15 degrees.
The middle portion of the middle
cervical spine is approximately
15 degrees.
The middle portion of the lower
cervical spine is approximately
20 degrees.
The lower portion of the upper
cervical spine is approximately
10 degrees.
The lower portion of the middle
cervical spine is approximately
15 degrees.
The lower portion of the lower
cervical spine is approximately
20 degrees.



Colophon

Ce livre est un spécimen des fontes générées avec l'outil NikLaPolice (PureData + Php), toutes basées sur la Terminus.

Le projet est disponible sur GitHub (<https://github.com/EtienneOz/NikeLaPolice>) et les spécimens sont téléchargeables à l'adresse <http://etienneozeray.fr/SVGtoTTF/specimens>.

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Mai 2014

