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The National College of Art and Design

The Apple Macintosh:

Its effect on Graphic Design and the Graphic Designer (Illustrations)

A thesis submitted to:

The faculty of History of Art and Design and Complementary Studies

and

In Candicacy for the Degree

Faculty of Design
Department of VisualCommunication

by Colin Campbell March 1990

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Fig.1 Advertisement for the Apple Macintosh

This advertisement occupied two pages of an English Sunday paper supplement. This signifies the 'universality' of the attitude towards selling at Apple Computer Inc. Stylishly photographed, it has a late 1980s 'yuppie' look; it does not show the product it is selling, preferring instead to show us the reason for its already worldwide success - the hand and the mouse.



Fig. 2 The Mouse. The mouse is an ergonomically designed unit, which when moved on a flat surface moves the cursor on screen. The button can be used to select menus, files tools, etc.

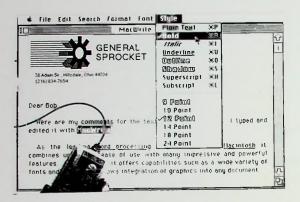


Fig.3(a) Macintosh screen showing 'Style Menu.'

The 'Style' menu offers such options as 'plain', 'bold', 'italic', etc. In this instance, the operator has selected the word 'MacWrite' (reversed white out of black on screen), and has chosen 'bold' from the 'style' menu. The tick beside '12 point' denotes the size of the word 'MacWrite'.

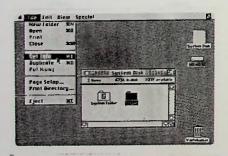


Fig.3(b) Macintosh screen showing 'File' menu. 'Folder' has been selected, and from the 'File' menu, 'get info...' has been selected, meaning that the operator simply wants to find out information about the system folder.

[6	File Edit Form	ula Forma	at Data O
	New 36N		
1988	Open %0	Enter	UK Trial Ba
	Links	8	c 1
1 6	Close All	54545.23	54604.23
1 2 3 4 5 6	Save %S	2123355.00	2123414.00 2
3	Save As	5589663 00	5589722 00 :
4 m		565.20	624 20
5	Delete	332136.66	332195.66
6		295601 63	295654.14
7	Page Setup	263085.45	263132.18
7 8	Print NSP	234146 05	234187 64
2		208389 98	208427.00
10	Printer Setup	185467 09	185500.03
12		165065.71	165095.03
12	Quit %Q	146908.48	146934.57
13		130748.55	130771.77

Fig.3(c) Macintosh screen showing how 'shortcuts' can be achieved. By selecting 'Print...', the screen will show the user a chart of print options such as size, page nos., no. of copies etc. The control symbol followed by a letter (P) means that 'Print...' can be selected on the keyboard.



Fig.3(d) Icons (Wastebasket and Clock).

These symbols (known as 'icons') are instrumental in the 'user-friendliness' of the Macintosh. The bulging waste-paper basket means you've successfully discarded something, e.g. an unwanted document, and the animated wristwatch means that you have to wait a little while.

4 Time chronology (should be already typed in) This is the chronology to use as reference material in thesis - to provide reader with a quick overview -

B.C.	
8	Aboriginal petoglyphs in Australia
3,100	Earliest known Egyptian
	hieroglyphics combining pictures and symbols
2,500	Egyptians invent papyrus (from reeds) and hieratic (cursive
	script) to write on it
450	Carrier pigeons used for fast communications between city-
	states.
256	Chinese invent paintbrushes made of hair
100	Rome has flourishing book industry, libraries, e.t.c.
A.D.	
150	Books of folded parchment begin replacing scrolls
600	Paper making spreads from China to Korea, Japan and Per
1004	sia
1034	Pi Shang invents movable type made of baked clay
1221	Chinese develop movable type made up of wood blocks
1390	Printing type made of bronze ordered by Korean emperor
1.410	Tsai-Tsung.
1418	First European example of xylograrphy (block printing
1445	from wood engraving)
1445	Chinese develop copper type
1455	Gutenburg's 42 line Bible is first book printed from mova ble type
1470	Nicolas Jenson produces "Jenson", the first Roman type
	face, in Venice
1540	Claude Garamond, French printer and punch cutter intro
	duces "Garamond" typeface
1710	Jacob Christoph Le Blon, German engraver, invents three-
	colour engraving
1791	First amendment to U.S. constitution guarantees freedom
	of press
1822	William Clarke makes first type composing machine
1849	Telegraph message "Eureka" from Sutter's mill in Califor
	nia sets off gold rush
1876	Alexander Graham Bell invents the telephone, transmitting
	t he words; 'Mr. Watson, come here, I want you!'
1886	Pica measuring system adopted in English speaking coun-

tries	
1895	William Friese-Green gained a patent for a phototypeset
	ting Light was shone on white characters on black
1904	Offset printing invented
1915	Alexander Graham Bell speaks with Thomas A. Watson by
	transcontinental telephone
1928	John Tschiehold published "Die Neue Typographie" (ad
	hered strictly to functionality)
1930	Four colour offset press invented
1933	Phototypesetter invented
1944	John Logie - Baird invented the T.V.
1949	"Rotofoto"- the first phototypeset publication to be pro
	duced in Europe an a keyboard system in the L.C.P.
1954	Monotype's monophoto typesetting equipment intro
	duced and Merganthaler - Linotype Linofilm typesetting
	machine introduced
1961	Letraset dry transfer lettering introduced
1961	Lasers invented
1961	I.B.M. golf ball typewriter introduced
1963	Early use of the term 'computer - controlled typesetting'
	occurred
1964	Word processing' coined as a new technical term in
130-1	the English language by I.B.M.
1964	First application of mouse as printing device
1968	First digital typesetting machine- Linotron 1010
1969	I.B.M. coined the description 'Media Industry' for activi
1909	ties involved with communications, whether electronic,
1070	oral, or paper based Personal computer concept and name comes into use
1972	Laser reproduction introduced
1974	ECRM inc. announce the innovative Autokon 8400
1975	Input hard copy consisted of line art and continuous tone
	photographs which were scanned and recorded on photo
	sensitive material
1077	Laser typesetting machine introduced
1977	Laser writer introduced
1980 1981	Bitstream, inc., - formed - provided fonts as bit-maps and
	coding for a variety of low and high resolution imaging devices
1982	Can LBP-CX electronic printer introduced, with a rated
1902	speed of eight pages per minute, a resolution of 360 d.p.i.,
- 1	le for imaging, a table top design and a cartridge for toner.
	Apple Macintosh introduced
1984	Apple Maciniosii indoduced

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und loquer defemil hammely ann apple lus Daulus nas cicummis er maguler gennum-que temulianna mun me hat prus logbame diens An ceperimoini querus tion of floor summer of the 10oft Dames Com Anthong luthman afancen philalans albid in duqu trainam to munt y train tu dimigram-poc erim migrio cremingie et od mana moma gomi peduam infinimbia mut Auchisca pull annos quannotirum allique o Sarnaha er Tim expiluetir ann applialis cwangelui- ne fixte muantu nutert aut mair rillit. (Baher nelno quid lot enns energie pur uous adus et maurs difamili deaudons me innifida forans lanar. I poir a Eliquies ni Robi gaileur et legeraur ille Danolaine mang quam adulus cum habumat- mulaminus ametis ang lambannin fulimans air. 42 mid fi rulam ambillens belham fua uerba monamun-

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Fig.5 handwriting at the time of Gutenberg. The similarity of the handwork (writing) and presswork (printing) is demonstrated by these two pages. On the left is a page from the 'Giant Bible of Mainz'. On the right is a page from the Gutenberg bible.



Fig. 6 illustrations showing how the language used in letterpress is derived. 6(a) Typical typecase. This typecase shows the particular place for each individual letter. The small letters (lower-case) are stored on the left, and the capitals (upper-case) are stored on the right.



Fig.6(b) A 19 em lead. 'Leads' are placed in between lines of type, to separate them and add space. They were lower in height than the letters themselves and so did not print. These leads give rise to the term leading, still used in computer and digital typesetting systems

N baegn baegn

abcdefghijklmnopqrstuvw ABCDEFGHIJKLMNOI 1234567890 ß &?!£\$(...:)

E1 a

Eal

Eal 10pt 2.3m 1L1766

abcdee_fghijk.klmm_nopqg_ers AABBCCDDEEFFGG RRSTTUVUWXYZ 1234567890 æøßasctet frgyijislh.

EI

60pt 13 4mm

A 50pt 13 4m

 E_{I}

.Fig.7(a) A comparison between old and new versions of Garamond

ABCDEFGHIJ KLMNOPQRSTUV WXYZ abcdefghijklmnopqr

Stuvwxyz

William Caslon
ABCDEFGHIJ
KLMNOPQRSTU
VWXYZ
ABCDEGJKM
NP2RTY
abcdefghijklmnopqrstu

UWXYZ

abcdefghijklmnopqrstuv ABCDEFGHIJKLMN 1234567890 &?!..;;

E1

48pt 13m

Ea 36pt 9.5mm

Eal E

abcdefghijklmnopgrstuvwx ABCDEFGHIJKLMN(1234567890 B & ?!£\$(.,;:)

F1 19.4mm

72pl 19.4mm

Ea

Fig.7(b) A comparison between old and new versions of Caslon

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyzææfffiflffiffl &ÆŒ£1234567890.;;:-!!'()
ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyzææfffiflffiffl &ÆŒ£1234567890.;;:-!!'()

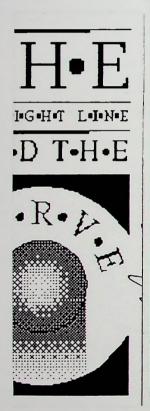
Fig. 7(c) A comparison between old and new versions of Bembo
The differences between the oldest and the newest versions of some of the
standard typefaces is often very noticeable as can be seen here. The process of adapting a typeface to each new technology as it appears can make
a typeface almost completely unrecognizable.



Fig.7(d)(i) Enlargement of Garamond (1450s) from 30pt.

RQEN baegn baegn

Fig.7(d) (ii) Enlargement of Garamond (1984) from 30pt. Fig.7(d) (ii) was output at 30pt from a 300 dpi laser printer and then enlarged photographically. Apart from the difference in the quality of the outlines (which illustrate the different techniques used to produce the letterforms), the actual shapes of the letters have changed dramatically during the centuries which separate them.



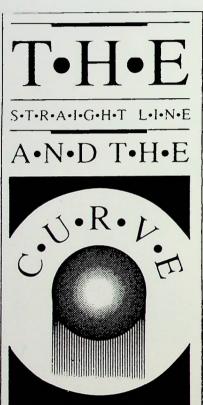


Fig.8(a) Photograph showing on-screen resolution Fig.8(b) Actual printout of same copy

Despite Apple's insistent claims to the contrary, there is a considerable difference in the appearance of type on a monitor and the same type printed on a laserprinter, as can be seen here. Adobe have recently introduced a product called 'Type Manager' which considerably 'smoothens' the type minimizing the difference between the two.

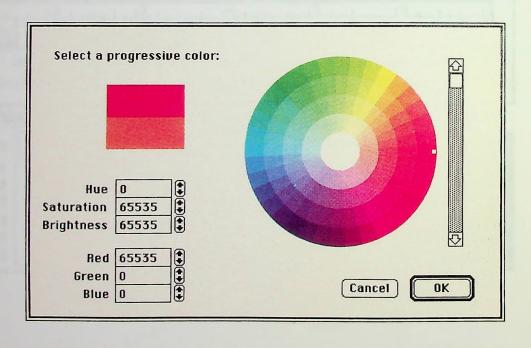


Fig. 9 Monitor showing how colour can be specified and controlled. Colour can be specified in a number of different ways, including Pantone colour, process colour, spot, tint, edit colour, hue, saturation & brightness (HSB), and red, green, and blue (RGB). Combinations of these different ways of producing colour on screen can be used, and when separations are required, they can all be converted to combinations of the four process colours (cyan, yellow, magenta, and black)

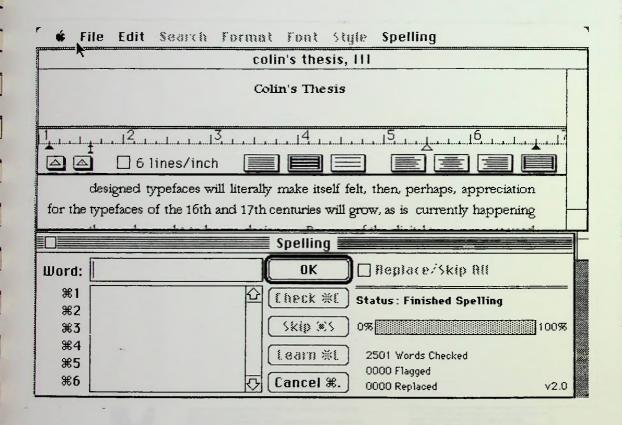


Fig.10 Monitor showing how spellchecker works. By selecting 'Check Document...', the entire contents of the MacWrite document will be checked for spelling mistakes. 'Questionable' words are 'flagged' and suggestions are made for the correct word. Words can be replaced or ignored or the Mac can be instructed to 'learn' specific unusual words.

FEONTLINE

I have been HIV positive for many years and I have never left to be in better health. I am also a spiritual healer and teacher, and my serual nature is an integral part of the work. It do and the lessons I continue to learn. Without my sexual expression, there is no way that I could be an effective healer or teacher, as no-one can bring the spiritual energy on to this physical plane without truly exploring the spiritual energy on to this physical plane without truly exploring the spiritual energy on to this physical plane without truly exploring the spiritual energy on to this physical plane without truly exploring the spiritual energy on to this physical plane without truly exploring the spiritual energy on the spiritual energy on the spiritual energy on the spiritual energy of the spiritual energy to the spiritual energy to be spiritual energy to be spiritual energy to be spiritual energy to be spiritual energy that are spiritually in a spiritual energy that are spiritually say and the spiritual energy that are spiritually say and the spiritual energy that are spiritual energy that are spiritually energy that energy th

AUTHOR OF THE HEALER WITHIN (AM

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these seemingly distinct aspects of ourselves. I do not need to fell you of the incomparable feeling that overwhelms your whole being during those moments when all comes logether with the right person. The exchange of such energies penetrates the heart centre, which, in the physical sense, is the location of the thymus gland. This gland still barely understood by more myester scheece, is believed by many to be the local point of the immune system. On the other hand we have all, all some point, had set which has left and we have all, all some point, and set which has left and understand is that set is not just a physical exchange it is the exchange of energies which go far deeper than mere physical acon and which have an even greater bearing on the health and balance within our bodies. What we put into a serial encourier is a reflection of our needs and our emotional state. Often we attack as our panners, someone who is giving off a smillar energy, which will then led that energy within ourselves. your sexual impulses will help you get closer to the true core of your being

Just far a morent, think about the motivations and real emotions will lie behind sea for you. Be portectly honest with youseld and mark below those which apply to you. You may add others if you wish). Sea is an expression of love for one particular person, a way of overcoming formliess of inling a void, a need within yourself, an adventure, the thrill of a new encounter a way of releasing pentil up energy and tenson, a means of except from the day to day reality of like, a means of exerting power or control over someone or of to Ising control to someor control over someone or of losing control to some-one, a way of proving your own self worth, your own at

Iracivenes III and III seems of what sex has meant to you in the past, what it means now and what you waith it ones. Such awareness can lead you towair a greater understanding of your emotional needs. Throughout all the inner urmoit you have gone through security, you cannot have a laided to continut a low emotional needs emotional reaching you cannot be spaged which you cannot adout of emotional reaching you cannot be spaged when you cannot adout of emotional reaching the spaged which you cannot adout of the spaged which you cannot adout of the spaged which you cannot should be spaged when you cannot should be spaged when you cannot spaged when you cannot should be spaged when you cannot should be spaged when you cannot spage when you ca

Fig.11 Condensed and stretched type

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This headline contains many examples of type which have been stretched or condensed. Such a distortion of type can often yield unaesthetic results. The word 'SPIRITUALITY' has been extended vertically and thus the delicate balance between the thick and thin strokes of the letters has been destroyed. For example, the crossbars on the 'T's are now much thicker than the down strokes, resulting in a top-heavy feel to the letters.



Fig.12 A Macintosh scanner with an item being scanned. The object is placed face-down on the glass and the lid is closed. The scanning mechanism moves the object and immediately shows the scanned object on the monitor.

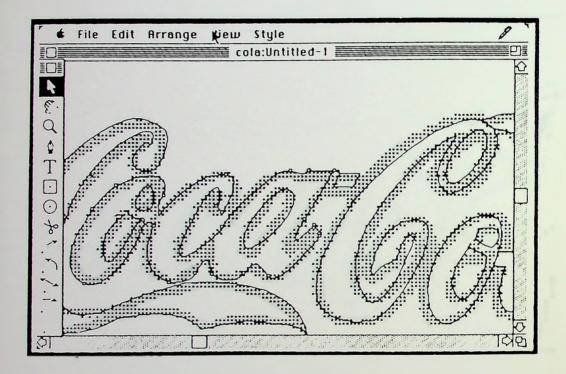


Fig.13 Tracing a scanned image

The grey pixels denote the scanned image and the black lines denote the traced image. The scanned image can be treated as a template and separated from the traced image. The subtle curves of an image such as this can be extremely finely controlled and continuously adjusted until the desirable result is achieved.

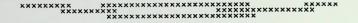




Fig.14 Bezier curves (examples).

When a curve is drawn it is automatically equipped with straight lines tangential to one of its points. The amount of curvature is controlled by 'dragging' the ends of these straight lines. The more complex the curve, the more controllable points it will have, and the more flexible it will be.

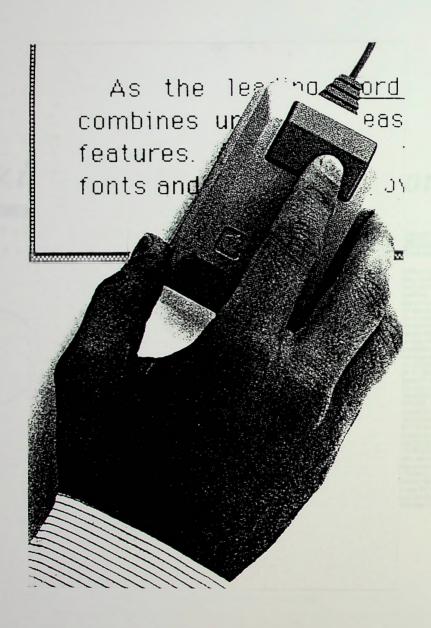
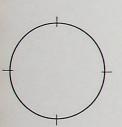


Fig.15 A hand on a mouse.

MAKiNG your

IT IS COMMON SENSE THAT YOU PLAY A PART IN KEEPING YOURSELF HEALTHY WE HAY BELOW ARE SOME POINTS TO CONSIDER



CATCHING INFECTIONS EARLY If your immune system is damaged, it is important to report any illness to your doctor as soon as possible. This is because infections can be treated much more effectively if they are caught early. Note that a person with AIDS is not at risk of dying from the common cold or other minor infections, but even so

the common coil of other minor intections, but even so let your doctor know when you are feeling unwell so that he can make sure it is nothing serious. REST Faligue is a very common symptom experienced by people with AIDS. The tiredness may come and go, and you may feel quite well for varying periods of time. Loss of common common surface and often common surface. of energy and ambition, as well as drowsiness, are often quite difficult to recognize as tiredness caused by the virus or depression. In any event, if you are feeling tired, pay attention to what your body is telling you as much as

pay attention to what your cooly is returnly you as mour as possible. If you are accustomed to going out at weekends, staying up late, or dancing till the early hours, too may wish to cut down so that you can get more rest. When you decide how much rest, you require, make your friends aware that your health comes first and you need to stick to your schedule of sleep.

EXERCISE Exercise is a good way of reducing anxiety, tension and depression. Regular exercise, from a physical point of view, is necessary for maintaining a good level of fitness. If you have not been in the habit of exercising, begin slowly, perhaps with regular walking or

WEIGHT LOSS Weight loss may be a direct result of the virus for people with HIV or AIDS, or of particular infec-tions which inhibit the proper absorption of food in the

HEALTH your AIM

DR. LUC MONTAGNIER, THE MAN WHO DISCOVERED HIV, INSISTENTLY STATES THAT "AIDS DOES NO TABLY LEAD TO DEATH, ESPECIALLY IF YOU SUPPRESS THE COFACTORS THAT SUPPORT THE DISE/SIMPLY ISN'T TRUE THAT THE VIRUS IS ONE HUNDRED PERCENT FATAL, IF YOU SLEEP REGULARLY ALCOHOL, COFFEE & TOBACCO, YOUR IMMUNE SYSTEM COULD RESIST THE DISEASE

stomach. Weight loss can also be a result of anxiety, perraps brought on by a loss of appetite. Because of these aroblems, give special attention to your diet, so that you can counter weight loss.

DIET Eating well balanced meals is important for peoole whose immune system is under threat. If you have seen hospitalised try to eat well when you go home so you can get your strength back and gain weight. If you find your appetite is poor and large meals are difficult. eat small nourishing snacks with a high calone content every two or three hours through out the day. This will selp you to regain any weight loss and keep it. Eat a va-nety of foods every day from these groups; BREADS AND CEREALS Eat plenty of these! Choose high

fibre varieties such as whol emeal bread, biscuits and trackers, include cereals like porridge, Weetabix, Shredied Wheat, as well as wholemeal pasta and brown rice.
FRUTT AND VEGETABLES Eat at least two or three piec-

of fruit and at least one salad daily

as of fruit and at least one salad daily.

FATS Butter or margerine can be added to vegetables or aread to increase calories.

PROTEINS Try to eat more chicken and fish than red neat. Take every precaution when preparing chicken- it may contain salmonella, which can spread to other foods hrough knives or work surfaces. Ensure that it is thoroughly cooked. Eggs are handy for a quick, light snack

bugus cooked. Eggs are handy in a quick. High shade hey can be easily added to drinks, like eggnog or to soups, sauces or mashed potatoes.

DAIRY FOODS Eat plenty of milk, cheese and yogurt. Fry to drink a pint of milk a day. Use milk in drinks, pudlings, soups and sauces. Add cheese to soups, sauces and

potatoes. Cheese and biscuits make a high calori energy snack. Yogurts are useful either as a des snack, and plain yogun can be added to soups or st Sometimes, you may be unable to eat certain foo have special nuritional needs, particularly if yo lost your appetite, weight loss or diarrhoea. Discu diet with your doctor and dietician and let them k you have lost weight. If you are suffering from loss then it is possible to obtain food supplements are easily absorbed into the body. These are avail prescription from the dietician. You can up milky with these supplements (for example Compilar, mel, or Build Up) Drinks made with fruit in a lic can be quite a tasty refreshment.

Prevention of thrush is important with regard to loss, even a small patch can cause difficulty in ea compromise food absorption.

VITAMINS Vitamin supplements are no substitute

adequate diet. It has not yet been proven whether vitamins actually help you fight the virus. Do ren however that excessive doses of some vitamins. A and D, can be dangerous.

RECREATIONAL DRUGS It is important to remen gith all recreational drugs, such as alcohol and ettes, can compromise the immune system. Alth may be hard to give up, the less you take, the le will damage your immune system. If you inject d member that a dirty needle can lead to septicemia cesses. Try to cut down on recreational drugs, an sure you eat well and get exercise regularily. Mox is the key word- try not to overdo things.

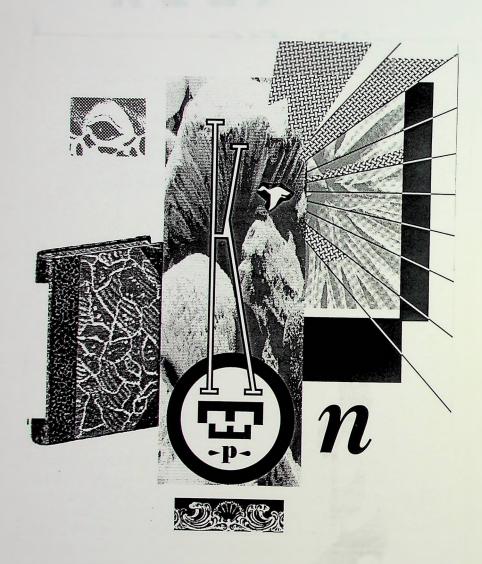
Fig.16 (a) Example of the subordination of function to form in desk-toppublishing.



Fig.17(a) Neville Brody experimenting with LetraStudio. This piece was produced by London designer, Neville Brody, in order to illustrate the capabilities of a Macintosh type-distortion program, LetraStudio. It is a typographic illustration, obviously produced without very much thought, but as a way of coming to grips with the program, and it does not pretend to be anything more. However, its use of colour is quite unusual, and it works well in the context for which it was intended.



Fig.17(b) Neville Brody's ad for Letrastudio In this, a similar example, Brody has used the tools of Letrastudio to didtort the photographic image in an unexpected way. It is obvious that both 17(a) and 17 (b) were produced by the same programme.



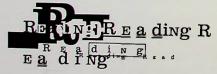


Fig.18(a) Apage for Emigré magazine produced by John Weber

KEEP*



* see also celebrate.

Fig.18(b) A page for Emigré magazine produced by Glenn Suokko The theme and title of these two is 'Keep on Reading'. These two images were produced by designers for Emigré magazine, and inserted at regular intervals as full page illustrations. The use of type and image in both is playful, 18(b) appearing to be the both more preconceived and restrained, they both us scanned images which have been subsequently bitmapped. Weber has overlayed pattern and type an images, stretching the words to the limits of their legibility, while Suokko has used a dictionary idea and has introduced a sense of mystery through the use of white type continuing on to the white background in the lower half of the illustration. 18(a) could be said to have some stylistic similarities. The typographic approach (especially in the case of the word 'reading' in fig.18(a) appears to be similar. The aesthetic value or appeal of either fig.16 or fig. 18(a) may be regarded as a mater of taste but the different contexts of these two examples should be considered; only then can the appropriateness of each be judged.



Fig.19 Curved and slanted type.



This is an example of geneva set in twelve point with automatic leading or line spacing. this is an example of geneva set in twelve point with automatic leading or line spacingthis is an example of geneva set in twelve point with automatic leading or line this is an example of geneva set in twelve point with automatic leading or line spacing this is an example of geneva set in twelve point with automatic leading or line spacing this is an example of geneva set in twelve point with automatic leading or line spacing.

ABCDEFGH KLMNOPQR TUVWXYZ

Fig.21 Geneva set 12/12 and alphabet (72point)
Fig.21(a)Here a bit-map version had to be created fore the printer since
Geneva is not usually printed out on RSG.

This an example of Geneva twelve point as output from MacWrite. The resolution from a LaserWriter printer is smoother than when output from RSG. This an example of Geneva twelve point as output from MacWrite. The resolution from a LaserWriter printer is smoother than when output from RSG. This an example of Geneva twelve point as output from MacWrite. The resolution from a LaserWriter printer is smoother than when output from RSG. This an example of Geneva twelve point as output from MacWrite. The resolution from a LaserWriter printer is smoother than when output from RSG.

Geneva 18 point in MacWrite Geneva 24 point

Garamond Italic and Geneva combination

some type scrolled and some not scrolled

Adobex

A le obline ecerx

A d le obline ecerx

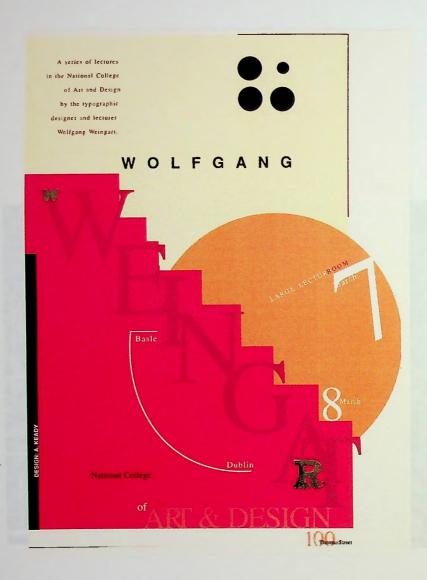


Fig.24(b) Wolfgang Weingart poster.

The word 'WEINGART' was originally set in helvetica black condensed on one machine. It was transferred to another machine in order to get a colour printiout. The second computer did not have the typeface Helvetica Black in its system and so the word 'WEINGART' was automatically changed to Times Roman, thereby changing the size of the individual letters. The 'R'was added by letterpress, inspiring the designer to develop the combination of Mac and letterpress technologies in the future.

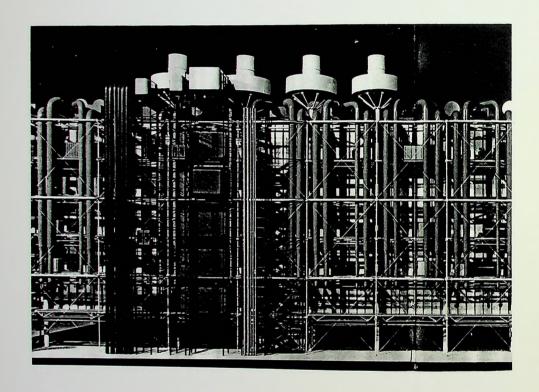


Fig. 25 Georges Pompidou Centre

By placing the pipes and stairways on the exterior of the building the architect is publicly acknowledgeing the process of the construction of the building. This is further emphasised by the bright colour scheme.

this is Chicago ABCDEFGHIJK QRSTUVWXYZabcdef

Fig. 26 Low-resolution typefaces (chicago)

This is the typeface used by Apple for themenu/file listings on the Macintosh screen. Its structure is very simple in terms of computer memory and digital generation, thereby saving most of the computer's memory for more useful employment.

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890 æøßÆØ &?!£\$%(.,;;)

Fig. 27(a) Bembo

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890 ß &?!£\$(.,;:)

Fig. 27(b) Garamond



Fig. 28 Helvetica (modified in MacPaint)

This example illustrates the ease with which typefaces can be changed and modified. MacPaint is essentially a drawing program and is not suitable for extensive or complex use of type. The resolution of the type generated by MacPaint is quite low in comparison to graphic programs such as RSG or QuarkXpress and makes extensive modification of type a very simple operation

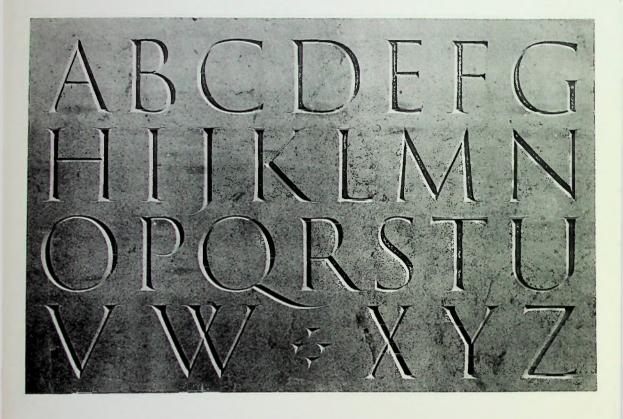


Fig. 29 Roman stone-carved type

Aspects of letterforms such as serifs have come about mainly through the process of carving letters into stone. It was first used simply as a convenient way of 'finishing off' a letter, its shape being dictated to by the shape of the chisel and the angle at which it was held.

000

This is Emperor 8 This is Emperor 10 This is Emperor 14



Fig.30(a) Emperor 8, Emperor 10, and Emperor 14

The Emperor family consists of a series of fonts that maintain the same horizontal proportions while varying the vertical height.

abcdef ghijklm nopqrst uvwxyz

Fig. 30 (b) Emigré 14
Emigré was designed as a versatile text for the coarse printing methods of the dot matrix printer, originally the only printer available for the Macintosh.

abcdef ghijklm nopqrst uvwxyz

Fig.31 Matrix

Fig. 31(a) the Matrix font is derived from Emigré 14. Matrix consumes relatively little memory space to store in the printer and generates printouts very quickly.

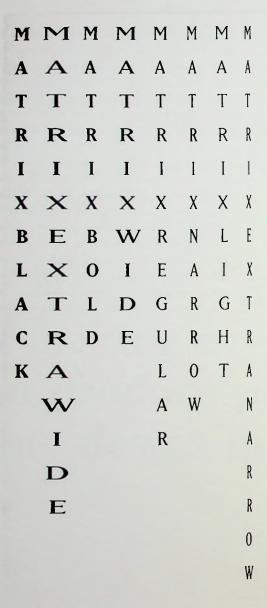


Fig. 31 (b) the Matrix family
Displayed here are the four weightsd of the Matrix family: Black, Bold,
Regular and Book. Alternately inserted are the extended and condensed
versions of the regular face.

ature of our clients keeps things lean and mean. And when they spend \$1,500, ir responsibility to give them something that is unique and of equivalent value. e We're sort of drifting away from my game plan here, but you touched upon Jeffery: The differiportant subject. During your lecture at CCAC, you talked about the subject of iality and uniqueness. I don't hear too many designers discuss this topic, and ery much intrigued by this because there's a real lack of originality in graphic n. And not just designers being original in comparison to other designers but vithin their own work

Exactly And that was the point I was trying to make during my lecture. As I , it's on two levels. First of all, the solution to the project that you are working just used whatever rould be honest to its intent; i.e., the client's message and/or objective, and d therefore be original. Unless the parameters are exactly the same, it can't look ke a Michael Vanderbyl piece. And secondly, within yourself, if you treat your activity as a designer in the same way that artists treat their work, you will disthat the design process is an art and you do find yourself working through your problems and concerns; the ones that you adopt and establish for yourself. her it is the relationship between the letterforms and the message, or whether it ir exploration of a personal vocabulary of color and form, or all of the above si-

formation is changences between writing and drawing are much smaller, and looking and reading are becoming the same thing. In the past as you sat down to write a letter, you wouldn't think about how the letter looked. You typeface was on the typewriter, and there was a certain letters in and read letters in, Now, you sit down behind a Macintosh and you have to make all these decisions: what typeface to use, what point size, what margins,

by making everybody can produce profession caphic design quickly ar

Fig. 32 Matrix (body copy) This shows the versatility of Matrix as a body copy face, in different sizes.

 $ext{The LORD is my shepherd;}$ I shall not want. He maketh me to lie down in green pastures: he leadeth me beside the still waters. He restoreth my soul: he leadeth me in the paths of righteousness for his name's sake. Yea, though I walk through the valley of the shadow of death, I will fear no evil: for thou art with me; thy rod and thy staff they comfort me. Thou preparest a table before me in the presence of mine enemies: thou anointest my head with oil, my cup runneth over. Surely goodness and mercy shall follow me all the days of my life: and I will dwell in the house of the LORD for ever.

Fig. 33Psalm 23, printed by Donald Knuth's Metafont program The Psalm here starts in an old-fashioned, highly serifed typeface and gradually modulates into a modernistic, sans-serif typeface. Each step, imperceptible on its own, is accomplished by making a tiny shift in 28 parameters governing the overall appearance of the computerised alphabet.



Fig. 34 An example of the range of 'A's available through modern phototypesetting systems.

aaaa aaaa aaaa aaaa aaaaa aaaaa abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890 ß & ?!£\$(...;)

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890 ß &?!£\$(...;) Gill Sans Monotype

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890 æøßÆØ &?!£\$%(.,;:) Frutiger 45
Stempel

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890 æøßÆØ &?!£\$(.,;:)

Franklin Gothic Bold

© 1976 Esselte Letraset Ltd

News Gothic

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890 B &?!£\$(,,;;)

Grotesque 9
Stephenson Blake

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890 ß &?!£\$(.,;;)