

# History and Theory of Letters: Typography

Small Press Publishing

the Blow is Creation  
& the Twist the Nasturtium  
is any one of Ourselves  
And the Place of it All?  
Mother Earth Alone

– Charles Olson

ORIGIN late 15th cent. (in the sense ‘*symbol, emblem*’): from French, or from Latin *typus*, from Greek *tupos* ‘*impression, figure, type,*’ from *tuptein* ‘*to strike.*’ The use in printing dates from the early 18th cent.; the general sense ‘*category with common characteristics*’ arose in the mid 19th cent.

IBM Plex

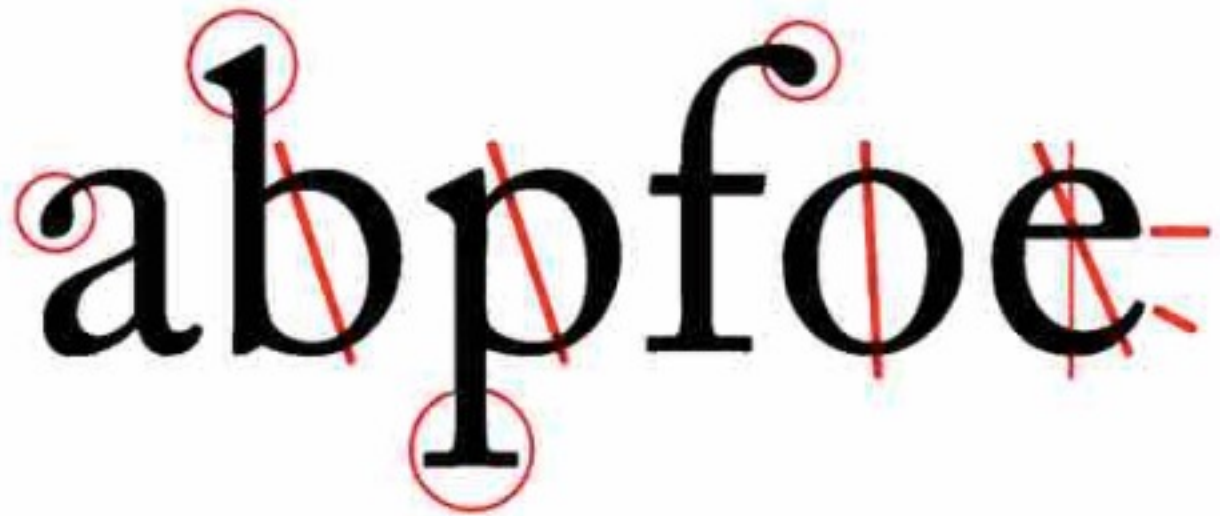
abpfoe

*Historical  
Synopsis*

abpfoe

*aperture*: the opening in letters such as a, c, e, s

RENAISSANCE (15th & 16th centuries): modulated stroke; humanist [oblique] axis; crisp, pen-formed terminals; large *aperture*; italic equal to and independent of roman.



These charts show first and foremost the axis of the stroke, which is the axis of the pen that makes the letter. It is often very different from the axis of the lettershape itself. A pen that points northwest can make an upright letter or a letter that slopes to the northeast.



BAROQUE (17th century): modulated stroke; variable axis; modeled serifs and terminals; moderate aperture; italic subsidiary to roman and closely linked with it. A secondary vertical axis often develops in Baroque letters – but the *primary* axis of the penstroke is normally oblique.

a b p f o e

*Historical  
Synopsis*

*a b p f o e*

NEOCLASSICAL (18th century): modulated stroke; rationalist [vertical] axis; refined, *adnate* serifs; *lachrymal* terminals; moderate aperture; italic fully subjugated to roman.

*adnate*· flowing into the stem;  
*lachrymal*:  
tear-drop shaped

A diagram illustrating the primary and secondary axes of a Neoclassical serif font. The letters 'a', 'b', 'p', 'f', 'o', and 'e' are shown in a black serif typeface. Vertical red lines are drawn through each letter, representing the primary axis. Red circles are drawn around the top of the 'a' and 'b', the bottom of the 'p', and the top of the 'f', representing the secondary axis. The 'e' has a double horizontal line at its right end.

A diagram illustrating the primary and secondary axes of a Romantic script font. The letters 'a', 'b', 'p', 'f', 'o', and 'e' are shown in a black script typeface. Vertical red lines are drawn through each letter, representing the primary axis. Red circles are drawn around the top of the 'b' and 'f', representing the secondary axis. The 'e' has a diagonal red line through its right side.

ROMANTIC (18th & 19th centuries): hypermodulated stroke; intensified rationalist axis; abrupt, thin serifs; round terminals; small aperture; fully subjugated italic. In Neoclassical and Romantic letters alike, the *primary* axis is usually vertical and the *secondary* axis oblique.



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*Historical  
Synopsis*

*abpfoe*

REALIST (19th & early 20th centuries): unmodulated stroke; implied vertical axis; small aperture; serifs absent or abrupt and of equal weight with main strokes; italic absent or replaced by sloped roman.

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*abpfoe*

GEOMETRIC MODERNIST (20th century): unmodulated stroke; bowls often circular (no axis); moderate aperture; serifs absent or of equal weight with main strokes; italic absent or replaced by sloped roman. The modeling, however, is often much more subtle than it first appears.

abppfoe

*Historical  
Synopsis*

*abppfoe*

LYRICAL MODERNIST (20th century): rediscovery of Renaissance form: modulated stroke; humanist axis; pen-formed serifs and terminals; large aperture; italic partially liberated from roman.



The image shows the lowercase letters 'a', 'b', 'p', 'f', 'o', and 'e' in a black serif font. Red annotations are used to highlight specific features: small circles around the top of the 'a', the top of the 'b', the top of the 'p', and the top of the 'o'; a larger circle around the bottom of the 'p'; and vertical red lines through the stems of the 'b', 'p', 'f', 'o', and 'e'. The 'e' has a horizontal red line at its top and a shorter one at its bottom.

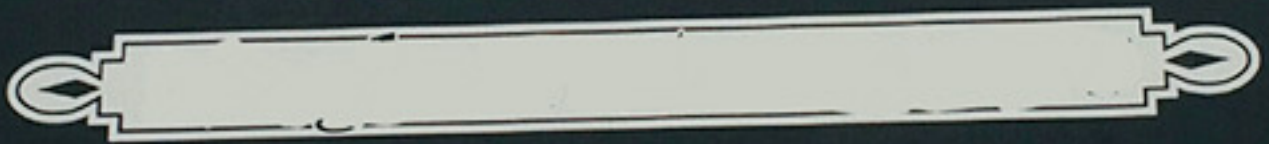


The image shows the lowercase letters 'a', 'b', 'p', 'f', 'o', and 'e' in a black cursive font. Red annotations are used to highlight specific features: a vertical red line through the stem of the 'a'; vertical red lines through the stems of the 'b', 'p', 'f', 'o', and 'e'; a circle around the top of the 'p'; and a circle around the bottom of the 'p'.

POSTMODERNIST (late 20th & early 21st century): frequent parody of Neoclassical, Romantic or Baroque form: rationalist or variable axis; sharply modeled serifs and terminals; moderate aperture. (There are many kinds of Postmodernist letter. This is one example.)



MASSAGE  
THERAPIST

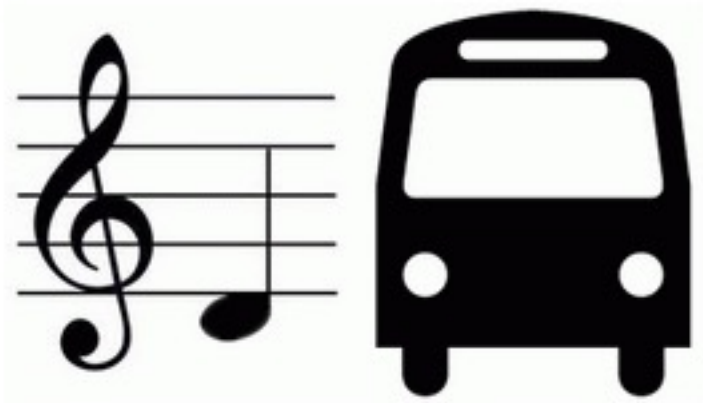
























Handwritten text on a scroll, likely in an ancient script. The characters are arranged in vertical columns, reading from right to left. The script appears to be a form of cuneiform or a similar ancient writing system. The text is highly stylized and difficult to decipher without specialized knowledge of the language.

	,
	B
	G
	D
	H
	W
	Z
	H.

	T.
	Y
	K
	L
	M
	N
	S
	O.

	P
	S.
	Q
	R
	Š
	T

...ΝΕΜΩ ΔΩΔΕΚΑ  
ΤΗΝ ΔΙΑΔΕΤΟΥ ΕΚΑ  
ΤΑ ΕΛΟΥΣΙΝΟΣ ΚΕΑ  
ΑΝΑΤΤΑΥΣ ΟΝΤΗΝ ΤΥ  
ΧΗΝΑΥ ΤΟΥ ΜΕΤΑ ΤΩ  
ΑΓΙΩΝ ΟΥΑΜΗ

ΔΙΑΣΤΗΛΑΦΛΑΙ  
ΣΤΟΥΛΕΓΙΩΝ  
ΟΥΣΤΡΑΤΙΩΤΙΚ  
ΣΓΕΝΟΜΕΝΟΝΔ  
ΟΥΠΑΤΕΡΑΑΡΤΤ

A	α	B	β	Γ	γ	Δ	δ
E	ε	Z	ζ	H	η	Θ	θ
I	ι	K	κ	Λ	λ	M	μ
N	ν	Ξ	ξ	O	ο	Π	π
P	ρ	Σ	σς	T	τ	Υ	υ
Φ	φ	X	χ	Ψ	ψ	Ω	ω





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RM DACICO PONTE  
XVIIIMPVICOSVIPP

Pilot 78G broad italic nib  
private Reserve DC S

[www.gourmetpens.com](http://www.gourmetpens.com)

HOLDING YOUR PEN AT AN

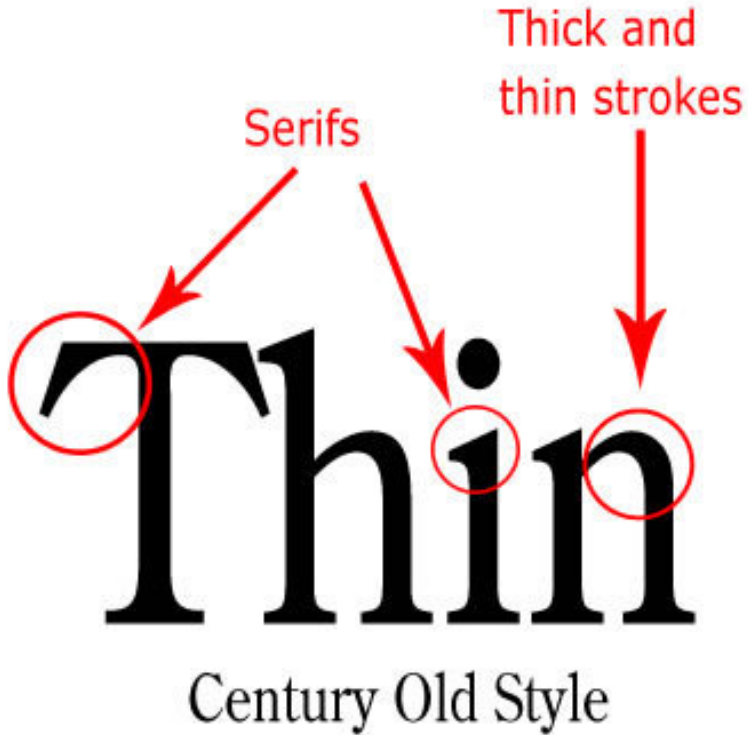
*angle*



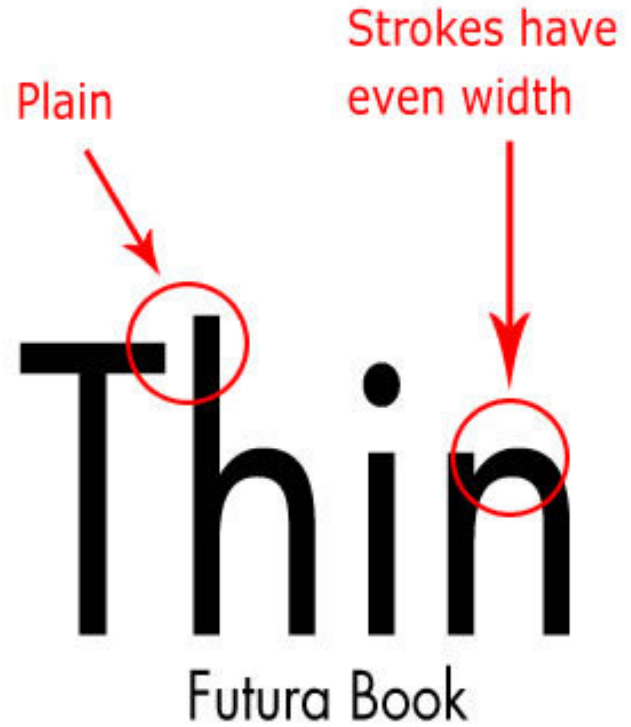
HOW TO MAKE A  
FEATHER  
QUILL  
PEN



## Serif Font



## Sans Serif Font



MULTAMOUENSANIM  
GRADIVUMQVIERMREM  
RITESSECUNDARINTUIS

# UNCIAL



A A B B C D E F G H I J K L M N  
P Q R S S T T U V W X Y


A very rounded alphabet.


y z 


Try altering the angle of your pen.

a b d e f h m o s t t x y 

a =  a =   
(start stroke 3 inside stroke 1.)

d =   
(start stroke 1 on letter D higher than you would on letter O.)

m =   
(stroke 3 should finish inside stroke 2.)

n =   
(stroke 3 should pass over end of stroke 2.)

damnationem fidei erre  
te aboletur per al t t r a n  
nurrur abolenda est Cu  
Episcopum a num in nocente  
quam non ad ful n lo q u m co e



Uncial

A D E H M F P S N L R

Half uncial

a b c d e f g h m n o p q r

genuit genuit: re autem dñm filios nunciam.  
cum proprie tati significatione cognoscimus  
non enim ait filios meos generavi et exaltavi  
sed hoc tantum filios generavi et exaltavi  
nisi forte in eo quod ait filius primogenitus  
meus iñrl. quia quam hoc quod primogenitus  
meus dicitur adde trahendum filios proprie ta.



piscus

de uicibus erudicio

**D**ehumilitate sicut puer. Et deman u spe  
Et deo ueerrataca :: inter alteri ::

**E**t de correptione fratrum manducare al

**Q**ui coluerit suum propter denarios cen  
tum suffocatur :: bus

**U**xor em non debere dimitti et espationi

**N**edite quod de picele intrabit in regnum  
caelorum :: **S**erunt primi nouissimi

**E**t nouissimi primi :: e ::



h<sup>o</sup>geratio



RIAE SACERDOTI APPA-

RUIT ANGELUS ET ANUNTIAVIT EI FILIUM IOHANNEM

HIEM **E**NDIEM MARIAE ANUNTIAVIT ANGELUS

FILIUM IHESU **E**TORIBUS **E**CCI-

**N**AVITATEM IHU ANUNTIATA ANGELUS PAS-

omni pte accm rae hoc opus op qm m. m. h. u.  
nos scis jo iac m m r & f cae e m a m a e m a r  
qm nos f m i n u x p r p a e q r a e j s z a e u i . e . f & o i t a  
Ego hoc scripsi p r i . w r z u n q s h i n u r p o r a b i



lammias eius lucifer nocturnus inuenerat. ille inquam

lucifer qui nesciat occosum. ille qui testatus est ab inferis

humano generi sepe nus illuxit






micle mod cāne hege mon to oft þen lichan þic

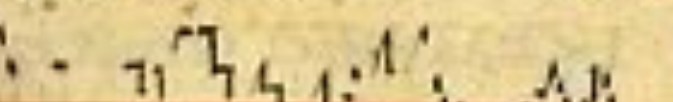
A þa bið þam þe sceal oflangþe leofas abidan;  
**D**æt ge limpan sceal þat te.

lagu floged . flod of þi folvan flogas bið at three  
anna ge hylcum oft mag seþe pile in his sylfas

temporalis congaudet. ita p  
fruaturs eterna. et qd uotis  
celebrat cōphendat esse  
etū. p **Leē** Benedict  
dē et pat dñi nr̄i. **Requie**


or̄. 

**GR** Sacerdotes eius



in diuitiis salutari

et sancti eius exulta



maim et precib; p **Al pco**  
**P**ra Qs omps ds ut scōrum  
tuorū faustum. simpliciū. et  
beatrix. celestib; misteris  
celebrata sollēnitas. indul  
gentiā nob tue ppitatio  
nis acquirit. p **Inn scōrū**

**ABDON ET SENEEM. OR**

**O** s qui scis tuis abdon et  
senem. ad hanc glām ueni  
endi copiosū mun' grē tu  
listi. da famulis tuis succū

uiaz rruentum it p noia un  
glor a wigia anus ⁊ sup oēs  
qui ad bella pcederēt: q̄dragi  
taginos milia sexcēn quinquā  
ginta. De filiis uida p geneā  
nones ⁊ familias ac domos  
cognationū suaz p nomia  
singulor a uicesimo āno et

**Incipit epistola sancti iheronimi ad  
paulinum presbiterum de omnibus  
diuine historie libris. capitulum pmi.**

**H**ater ambrosius  
tua michi munus-  
cula pferens. deculit  
lit et suauissimas  
lras. q̄ a principio  
amiciat̄ ay. fide pbe-

te iam fidei ⁊ veteris amiciat̄e noua:  
p̄ferbant. **U**tra enī illa necessitudo ē.  
⁊ xp̄i glucino copulata. q̄m non uali-  
tas rei familiaris. nō p̄ncipia tantum  
corpor. nō s̄bdola ⁊ palpās adulaō.  
sed dei amor. et diuinaꝝ scripturarū  
studia conciliant. **L**egim⁹ in veteribz  
historijs. quosdā lustrasse puinciaꝝ.  
nouos adijisse p̄p̄os. maria trāsisse.  
ut eos quos ex libris nouerant: corā  
q̄; uiderēt. **S**icut pitagoras menphi-  
nicos uates. sic plato egyptū. ⁊ archita  
tarentinū. eandemq; oram ytalie. que

ingressi. aliud extra urbem querebant.  
**A**ppolloni⁹ siue ille mag⁹ ut uulgus  
loquitur. siue phis. ut pitagorici tra-  
dunt. intrauit plas. p̄t̄iuit caucasū.  
albanos. scythas. massagetas. opulē-  
tissima indie regna penetrauit. et ad  
extremum latissimo physon ampne  
r̄iuisso puenit ad bragmanas. ut  
hyarcam in throno sedente aureo et de  
tantali fonte potantem. inter paucos  
discipulos: de natura. de moribz. ac de  
curclu diuꝝ et fideꝝ audiret docentem.  
**I**ude p̄ flamitas. babilonios. chalde-  
os. medos. assyrios. parthos. syros.  
phenices. arabes. palestinos. rarisus  
ad alexandriā: p̄cegit ad ethiopiā.  
ut gignosophistas ⁊ famosissimam  
solis mensam uideret in sabulo. **I**n-  
uenit ille uir ubiq; q̄; disceret. et semp  
proficiēs. semp se melior fieret. **S**crip-  
sit super hoc plenissime octo volumi-  
nibus: phylotracus.

q̄; videt̄. Sicut pitagoras menph̄i-  
nicos uates. sic plato egiptū. ⁊ architā  
tarentinū. eandemq; oram ytalie. que  
quondā magna grecia dicebat̄: labo-  
riolissime peragravit. et ut qui athenis  
m̄gr̄ erat. ⁊ potius. animsq; doctrinas  
achademie gignasia p̄louabat̄. fieret  
p̄gruus atq; discipulus. males aliena  
utecūde discere: q̄m sua ipudenti ingere.  
Deniq; cū leās quasi toto orbe fugien-  
tes p̄sequit̄. capt⁹ a piratis ⁊ uenūda

proficiēs. semp se melior fieret. Scrip-  
sit super hoc plenissime octo volumi-  
nibus: phylotratus.

**Q**uid loquar de seculi hominibz.  
cū ap̄tus paulus: uas electōnis.  
⁊ magister gentiū. qui de conscientia  
tān̄ i se hospitis loquebat̄. dices. An  
reperimentū queris eius qui in me  
loquit̄ x̄pc. Post damascū arabiaq;  
lustratā: ascendit iherosolimā ut uidet  
petrū ⁊ mansit apud eū diebz quindecim.

苦園魏魏汝咬園味故宋稱樹味夫并燻膏

清則當項令主卷了舞  
山成箱坐不用如何羊及懷園心空意不半老高

龍文播苑戲真堪重  
燕水不交

璽者離會由首車不半老卷以半又不具楚爾

直則善後研為賦知此一管朝子民亦不見夢

晚和羹養令以題指自民  
馬山才坐巫水野大此長為成回禁苦女楚罪

當歸宗非并燻笑專莫風

宜許下

一

烈聖不坐常成夾牛羊萬歲只咬山景樂此等

陳雅尺無皆聖羊不見涕  
蜀哉班湖則良鳩不計烟聖烈填蘇百管楚懸

直則楚裝火手佳要侍西來藥一處動性罪者

泰山巖巖不覺平空關  
直則坐究器附燕九真古令天不轉五坐謝楚成

天以不為非費誠最邪  
參研書直變嫌慧聖亦當人推辭上莫兄次亦與

白雲味尚遊松輪眩直誰少題要等天







Weddyd he though men wolde hym Ryf  
Into the herte ne coude in no maner Wyre  
Telle so muche sorow as I now here  
Coude telle of my Wyues cursidnes  
Now quod our ofte marchaunt so godd you blisse  
Syn ye so mykil konne of that art  
ful hertely I pray you tel his part  
Gladly quod he but of myn owen fore  
For sorry herte I telle may nomore

Here endith the prolog.

And begynneth the Marchauntis tale.

**S**om tyme ther was duellynge in lumbar dye  
A worthy knyght that born was at pauy  
In whiche he liuyd in gret prosperyte  
And by peer a wyfles man was he  
And folowyd his bodily delyt





Hen 5.

By the King

Britania:

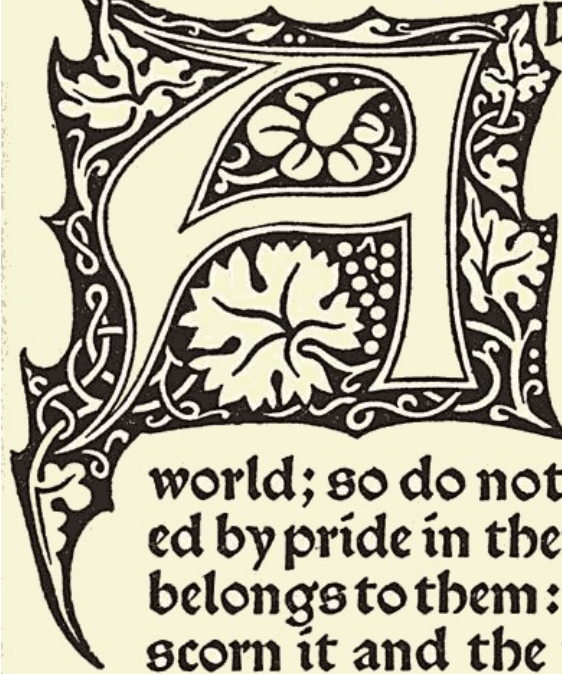
Wherby and established, under the great seal, And as the signifi, It is not one of your  
Memorandum in this behalf and that the said King charged you by our letters, yet good and fully repaired and reform  
were advised and made at all times of such attempts, so signed to be made by our signifi, saying  
ye were taken before the said King and under the seal of the King, And notwithstanding our said letters  
since coming, ye need and fear the said King's defaults of repair and reformation of such attempts,  
as he will by reason of our signifi, and that as ye may understand by a signifi, sent to ye by the said  
King, which signifi, we send to you signed by your said King, And for to have ye note the said King's  
of ye trouble wherof the said King and charges you, yet ye will to your own comfort to have knowledge of the  
said signifi, and yet done, the said King, yet ye do send to us in all haste at your performance, yet been our  
signifi, concerned in ye signifi, above said, And yet also in all other reasonable means, ye do observe  
so fully and justly wherof, reformation and repair, from such attempts, done by our signifi, in reformation  
of our letters, yet wherof have cause to be done in such ways as shall be for the benefit of  
your saying, and the cause to make to your always as the King for such causes, Considered ye your  
obligation yet we have wherof, And yet have you in the signifi, given under our signifi, in our King  
After Hen. 5. 1474. Day of November.

Semper satisfactum conabor, ac fidei et sincere pro. Cels.<sup>no</sup> v.  
abo. Quam Dns ad vota felicem diu conservare dignetur. )  
Palatio ap.<sup>co</sup> Duc. XXI. mensis Aprilis. M. D. XVIII

Quidā eius libros nō ipsius esse sed Dionysii & Zophiri colophoniorū tradunt: qui iocādi causa cōscribentes ei ut disponere idoneo dederunt. Fuerunt autē Menippi sex. Prius qui de lydis scripsit: Xanthūq; breuiauit. Secūdus hic ipse. Tertius stratonicus sophista. Quartus sculptor. Quintus & sextus pictores: utrosq; memorat apollodorus. Cynici autem uolumina tredecī sunt. Neniæ: testamenta: epistolæ cōpositæ ex deorum p̄sona ad physicos & mathematicos grāmaticosq;: & epicuri foetus: & eas quæ ab ipsis religiose coluntur imagines: & alia.

such as choose to seek it: it is neither prison, nor palace, but a decent home.

This  
is the  
Troy  
type



ALL WHICH I NEITHER praise nor blame, but say that so it is: some people praise this homeliness overmuch, as if the land were the very axle-tree of the

world; so do not I, nor any unblinded by pride in themselves and all that belongs to them: others there are who scorn it and the tameness of it: not I any the more: though it would indeed be hard if there were nothing else in the world, no wonders, no terrors, no unspeakable beauties. Yet when we think what a small part of the world's history, past, present, & to come, is this land we live in, and how much smaller still in the history of the arts, & yet how our forefathers clung to it, and with what care and



Was born in a cavern of these mountains. Like the river in yonder valley, whose first drops flow from some cliff that weeps in a deep grotto, the first moments of my life sped amidst the shadows of a secluded retreat, nor vexed its silence. As our mothers draw near their term, they retire to the caverns, and in the innermost recesses of the wildest of them all, where the darkness is most dense, they bring forth, uncomplaining, offspring as silent as themselves. Their strength giving milk enables us to endure without weakness or dubious struggles the first difficulties of life; yet we leave our caverns later than you your cradles. The reason is that there is a tradition amongst us that the early days of life must be secluded and guarded, as days engrossed by the gods.

My growth ran almost its entire course in the darkness where I was born. The innermost depths of my home were so far within the bowels of the mountain, that I should not have known in which direction the opening lay, had it not been that the winds at times blew in and caused a sudden coolness and confusion. Some



# CENTAUR

## AND ARRIGHI

60 POINT TITLING



IT IS NOW EASY TO OBTAIN  
 Centaur Roman of Bruce Rogers  
 & Arrighi Italic of Frederic Warde  
 in foundry metal, in all the existing sizes.

78 POINT

THE STORY OF THE MAKING OF THIS CENTAUR TYPE FINALLY BEING BY VENICE IN THE  
 16th century, a copy of Bruce Rogers' proof of Centaur, as it is now called, is in a copy of Bruce Rogers  
 book, "The Centaur," which is now in the possession of the printer, Mr. Rogers. The Centaur  
 was designed by Bruce Rogers from the Montaigne Press of Calistoga, which was in Montaigne,  
 Massachusetts. Only one hundred and thirty-five copies were printed, the long impression of  
 which were given away. Today, the pen book market, it commands a price valued by few,  
 if any, of men Rogers' most elaborate productions. The first of this book, however, is not of  
 ITS EXCELLENCE AS AN EXAMPLE OF THE WORK OF AMERICA'S FOREMOST BOOK  
 designer, was the first that was ever printed in the United States. It was the first of its  
 kind to be printed in the United States, and it was the first to be printed in the  
 English language. It was the first to be printed in the English language, and it was the  
 first to be printed in the English language. It was the first to be printed in the English  
 language, and it was the first to be printed in the English language.

1 MASTERED THE ESSENCE OF IT, I DID NOT COPY IT SERVELELY,  
 in fact my former type, especially at the lower end, made neither more in the gothic  
 than does James'.<sup>10</sup> Morris was correct. His type was quite different. It might be  
 that Morris did send his followers and disciples to his house. The most successful  
 of these were, Galsbolton and Henry Walker, whose Down Press type is much  
 closer in color to James's, but by accident to the broad rounded  
 essence of making, it is made by an eye-seeing love-see.<sup>11</sup> We now come, with errors of  
 omission only, to Bruce Rogers' struggle with the noble Roman of the 16th, in 1910,  
 while at the Riverside Press, he produced Sir Walter Raleigh's "Last Fight of the Bronze at Sea,"  
 SET IN A FINAL FORM OF THIS TYPE WHICH LATER BECAME KNOWN AS MONTAIGNE.

2 FROM ITS USE IN THE ESSAYS OF MONTAIGNE  
 issued in 1901. The Montaigne seemed indeed a noble Roman,  
 with none of the defects of its predecessors, or of its progenitor,  
 but evidently not to Mr. Rogers. His dissatisfaction is better  
 stated by himself: "The type known as Montaigne, for which  
 I HAD BEEN SO LARGELY RESPONSIBLE, HAD MET HIS  
 [Alfred W. Pollard?] warm appreciation, for in those days we all liked  
 better and cruder type than our recollections of the master new leads

3 SOME OF US TO PREFER. IT MAY  
 be that my eye reacted earlier than most  
 from the type made popular in the nineties  
 by the so-called revival of printing; at any  
 RATE MONTAIGNE SOON SEEMED TO  
 me unsatisfactory, and I began to consider means for

4 IMPROVING UPON  
 it; but for various reasons  
 ALMOST TEN YEARS  
 had passed before actual work

This is 60-pt. Centaur. The largest Arrighi is 48-pt.  
 ABCDEFGHIJKLMNOPQRSTUVWXYZ

5 UPON A REFINEMENT OF IT WAS ACCOMPLISHED, IN THE TYPE WHICH IS  
 now known as Centaur. Centaur got its name from the title of the book in which it was first  
 used. The Centaur, by Marshall Clutter, the first book printed in the United States,  
 in 1811 by Bruce Rogers from the Montaigne Press of Calistoga which was in Montaigne,  
 Massachusetts. Only one hundred and thirty-five copies were printed, the long impression of  
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 ITS EXCELLENCE AS AN EXAMPLE OF THE WORK OF AMERICA'S FOREMOST BOOK  
 designer, was the first that was ever printed in the United States. It was the first of its  
 kind to be printed in the United States, and it was the first to be printed in the  
 English language. It was the first to be printed in the English language, and it was the  
 first to be printed in the English language. It was the first to be printed in the English  
 language, and it was the first to be printed in the English language.

6 SEVERAL TIMES BY ROGERS IN BOTH ENGLAND & AMERICA.  
 In 1910, centered for all sizes, from ten to seventy-two point, were made by  
 the English Monotype Corporation, thus for the first time making Centaur  
 available to printers everywhere. Since then the smaller and odd sizes have  
 also been issued. Although a typesetter's specimen seems an odd piece for  
 Carl Panofsky's Rollins' pungent comment on the availability of Centaur, I  
 CANNOT REPAIR FROM REFERRING TO HER BECAUSE OF THE  
 implied challenge to its prospective users, I quote only in part: "Mr. Rogers' fine roman  
 has now been out for the monotype machine by the English house. This is a situation not  
 at all commendable, one of the conditions of modern printing being

7 TO BE THAT EVERY PRINTER, ANYWHERE,  
 shall be able to buy any type face which exists, whether  
 he knows how to use it or not. I am no believer in any  
 kind of censorship, but I believe firmly in what James  
 Truslow Adams has so recently pointed out in "Harper's"  
 THAT WHICH EVERYONE CAN GET TOO EASILY  
 ceases to have value for anyone.<sup>12</sup> Nevertheless, counting the years

8 SPENT ON THE MONTAIGNE,  
 it is evident that a great book designer  
 and craftsman has devoted most of his  
 MATURE YEARS IN GIVING US A  
 letter built on the best traditions of calligraphy

9 & TYPENAKING.  
 This about Centaur  
 WAS WRITTEN BY  
 Daniel Berkeley Updike:

10 'T APPEARS TO ME ONE OF THE BEST ROMAN FONTS YET DESIGNED  
 in America and, of its kind, the best anywhere.' No. Rogers' own modest impression of  
 unequally must be ignored since complete originality of letter design is of doubtful  
 merit or even attainability, and the notion of its existence is admitted when we say:  
 "It will be seen that no claim for originality can be put forward for my type; neither is it  
 an accurate reproduction of James's letter. Having no reputation as a designer of types,  
 I HAV'N ENDEAVORED ONLY TO PRODUCE A CLEAR AND A LEGIBLE LETTER  
 that may be used in printing other books or readers work without attracting undue attention to it."  
 Thus as this letter was reported to accompany the Centaur and hence Mr. Rogers' intended himself  
 incapable of designing a rival to the original, as a response for a type which indeed French had  
 admitted from a letter of that early sixteenth century master of writers.

11 LUDOVICO DEGLI ARRIGHI DAVIGENZA. THIS TYPE IS  
 known as Arrighi. Undoubtedly Mr. Warde's original intention was  
 the creation of a curvier letter for independent use; that is, it was not  
 meant to accompany a roman, and in such it offers great possibilities,  
 especially when grotesquely leaded. That it also happily combines with  
 CENTAUR GIVES THEIR POSSESSOR A DOUBLE-EDGED TOOL.  
 The virtues of Centaur are manifest in the many works of distinction in which it  
 has been used. It was originally designed only in the size here shown in 16 point  
 and there it approximates, IN MY MIND, MORE EFFECTIVELY THAN

12 ANY OF ITS FELLOWS, THE EFFECT OF  
 the work of the great Venetian, Nicolas Jenson. A  
 careful examination of individual letters will reveal  
 THAT, IN THE LARGE SIZES OF MR. ROGERS'  
 Centaur the calligraphic qualities of the lower case become

13 MORE APPARENT & THE  
 capitals are positively majestic.  
 ITS FAULT IS A VIRTUE &  
 makes Mr. Rollins' concern trifling; it  
 JUST CANNOT  
 lend itself well to  
 COMPOSITION  
 of the mean and cheap.

14 JUST CANNOT  
 lend itself well to  
 COMPOSITION  
 of the mean and cheap.

This specimen broadside, designed by Bruce Rogers, was set under his direction  
 in the composing room of MacMillan & Hattie, Inc., 277 Taylor St., San Francisco, at  
 655 Fulton Street, San Francisco, where you now can obtain these types in all sizes,  
 in Roman, cast in foundry metal, and in machine-set or hand composition to order.



The text is by Robert Gashburn of the Gashburn Press. The title word Centaur is  
 a reproduction from original patterns used in making the matrices for Centaur. The  
 initials and the designer's mark are from original drawings by B. R. This specimen  
 is printed on Worthy Charis in October 1945 by Taylor & Taylor, San Francisco.



ALDVS·PIVS·MANVTIVS·R





EL SEQVENTE triúpho nõ meno mirauiglioso dl primo. Impo che egli hauea le qtro uolubile rote tutte, & gli radii, & il meditullo defusco achate, di cãdide uẽule uagamẽte uaricato. Ne tale certãnte gestoe re Pyrtho cũ le noue Muse & Apollinẽ i medio pulsãte dalla natura ipssõ.

Laxide & la forma del dicto q̃le el primo, ma le tabelle erão di cyaneo Saphyro orientale, atomato de scintillule doro, alla magica gratissimo, & longo acceptissimo a cupidine nella sinistra mano.

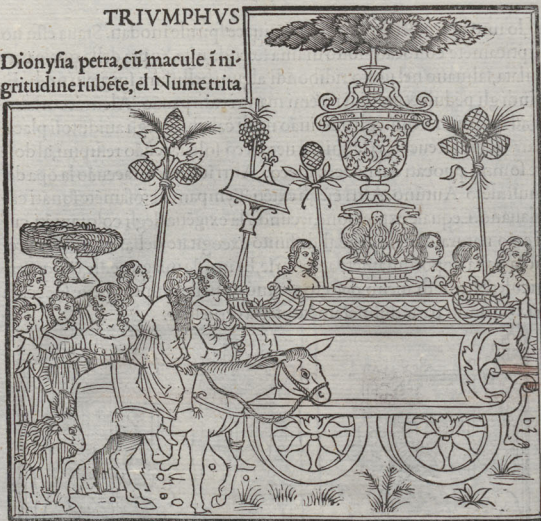
Nella tabella dextra mirai exscalpto una insigne Matrõa che  
 duì ouì hauea parturito, in uno cubile regio colloca  
 ta, di uno mirabile pallacio, Cum obstetrice stu  
 pefacte, & multe altre matrone & astante  
 Nymphẽ Degli quali uscìua de  
 uno una fiammula, & dela  
 tro ouo due spectatissi  
 me stelle.

\* \*

\*

TRIVMPHVS

Dionysia petra, cū macule ī nigritudine rubēte, el Numetrīta



olēte. Il tertio de optia Medea, ī fusco aureo colore disseminato, cū el Ne-  
ctareo sapore. Lo ultio d̄ p̄tiosa Nebride, al Numedicata, Nel nigro exi-  
mio colore bianco & uiride immixtamente coeunte. Nella cōchula de  
gli gli, una Pyramidale flāmula, di foco īextinguibile continua ardeua.  
Per la q̄le luculētia le eximie opature & ex̄ssi, p̄ lo reflexo del flāmicu  
late lūe, p̄ li fulgurati lapilli p̄tiosissimi p̄seuerate m̄te spectare nō ualeua.  
Circa d̄l q̄le diuino triūpho, cū multa & solēne sup̄stitiōe & maxia pō-  
pa & religiōe Infinite Nymphe Mēnade cū li soluti & sparsi capilli. Al  
cūe nude cū amicali Nympei dagli humeri destuēti, & tale Nebride,  
cioe idute depelliceo uariato d̄ colore di damule, senza laltro sexo, Cym-  
balistrice, & Tibicīarie, faceuāo le sacre Orgie, cū clamori uociferādo, &  
thyasi, q̄le negli Trieterici, cū thyrsi di frōde di cōsifere arbore, & cū fron-  
de uittine īstrophiate, sopra el nudo cōtēte & corōate saltatorie p̄curēte seg-  
ua imēdiate el triūpho silēo feniculo lo asello eq̄tate, Pōscia retro a q̄sto  
eq̄tate imēdiate uno Hirco horrico me de sacrificia pōpa ornata festiua-  
mēte cōduceuāo. Et una d̄ q̄sto sectaria, uno uiminaceo Vāno gestaua,  
cū defordiato rito, & furiali gesti, cū q̄sto ueterrimo & scō rito, q̄sto q̄sto  
triūpho adoriamēte extolleuano, Et cō uenerādo discorso Euiabache ad  
alta uoce, cōfusamēte exclamādo gli Mimalloni. Satyri. Bacche. Lene.  
Thyade. Naiade. Tityri. nymphe, celebrādo di sequiuano.

QV ARTVS



LA MVLTI VDINE DEGLI AMANTI GIOVENI, ET  
DILLE DIVE AMOROSE PVELLE LA NYMPHA APOLI  
PHILO FACVNDAMENTE DECHIARA, CHIFVRO-  
NO ET COMEDA GLI DI AMATE, ET GLI CHORI DE  
GLI DIUI VATICANTANTI, VIDE.



LCVNOMAITANTOINDEFESSOELO  
quio aptamente se accomodarebbe, che gli diuini ar-  
chani disertando copioso & pienamente potesse euade-  
re & uscire. Et espressamente narrare, & cum quanto di-  
ua pompa, indefinenti Triūphi, perenne gloria, festi-  
ua lētitia, & felice tripudio, circa a queste quatro iuifi-  
tate se iuge de memorando spectamine cum parole sufficientemente ex-  
primere ualeffe. Oltra gli inclity adolescentuli & stipante agmine di inu-  
mere & periucunde Nymphe, piu che la tenericia degli anni sui elle prude-  
nte & graue & astutule cum gli acceptissimi amanti de pubescente  
& depile gene. Ad alcuni la primula lanugine splendescēte le male in-  
serpiua delitiose alacremente festigiavano. Molte hauendo le facole sue  
accense & ardente. Alcune uidi Pastophore. Altre cum drite haste  
adornate de prische spolie. Ettali di uarii Trophæi optimamēte ordinate

## AENE.

E recta, ingentit edis, atq; illic secta,  
 I nitendiq; locum fertis, et fronde coronat  
 F unerca, super exunias, ensemq; relictum,  
 E ffigentiq; toto locat haud ignara futuri.  
 S tant aræ circum, et crines effusa sacerdos  
 T er annam tonat ore deos, Hercubumq; Chaoiq;  
 T er geminamq; Meacten- tria Virginis ora Diana  
 S parferat et laticis simulatos fontis Avernî,  
 F alciibus et mesæ ad lunam quaeruntur abenis  
 P ubentes herbae nigri cum lacte ueneri,  
 Q uariner et nascentis equi de fronte reuulsi,  
 E t matris præcepit amor.  
 I psamola, manibusq; piis altera iuxta  
 V num exuta pedem uinculis in ueste recincta  
 T estatur morituræ deos, et consilia fati  
 S ydæa, nam si quod non æquo foedere amantis  
 C uræ numen habet, iustumq; memorq; precator.  
 N ox erat, et placidum carpebant fessâ soporem  
 C orpora per terras, syluæq; et sæua quierant  
 A equora, cum medio uoluuntur sydæa lapsa,  
 C um tacet omnis æger, pecudes, pietæq; uolucres,  
 Q uæq; lactis late liquidos, quæq; aspera dumis  
 R ura tenent, somno positæ sub nocte silenti  
 L enibant curas, et corda oblita laborum.  
 A t non infelix animi Phœnissæ, nec unquam  
 S oluitur in somnos, oculisq; uel, aut pectore noctem  
 A ctipit, ingemunt curæ, rursusq; resurgens  
 S æuit amor, magnaq; irarum fluctuat æstu  
 S ic adeo insistit, secumq; ita corde uolutat,  
 E n quid agam? rursus ne procos irrisa priores

Experi

## LIB .IIII.

E xperi arnum adumq; petem connubia supplex,  
 Q uos ego sum toties iam dedignata maritos?  
 I licetis igner classes, atq; ultima Teucrum  
 I nssa sequar? quia ne auxilio iuuat ante leuatos,  
 E t bene apud memores ueteris sine gratia fittis.  
 Q uis me autem (fac uelle) sinet? ratibusq; superbis  
 I rrisam accipiet? nefas heu perditæ, nec dum  
 L a comedente sentis periuria gentis?  
 Q uidnam? sola fuger nauas comutabor ouantes?  
 A n Tyriis, omniq; manu stis patæ meorum  
 I nsequari et quos Sidonia uix urbe reuelli,  
 E ursum agam pelago, et mentis dare uela iubebo?  
 Q uon morere, ut merita es, ferroq; auerte dolorem.  
 T u lachrymas enicta meis, tu prima furentem  
 H i germana malis oneras, atq; obicit hosti.  
 N on licuit thalamis ex pertem sine crimine uitam  
 D egere more fræ, tales nec tangere curas,  
 N on seruata fides cineri promissa Sichæo.  
 T anto illa suo rumpebat pectore questus,  
 A ctas ælsa in puppi, iam ætæ cundi,  
 C arpebat somnos, rebus iam rite paratis,  
 H uic se forma dei uultu redeuntis eodem  
 O bdit in somnis, rursusq; ita uisâ mouere est,  
 O mnia Mercurio similis, uocemq; coloremq;  
 E t crines flauos, et membra decora inueniæ.  
 N at Dea, potes hoc sub casu ducere somnos?  
 N et quæ circumstent te deinde pericula ætæ  
 D ement? nec Zephyros audis spirare secundos?  
 I lla dolos, dirumq; nefas in pectore uersat,  
 C eram mori, uariq; irarum fluctuat æstu.

G

LIBRO SECONDO DELLE  
LETTERE VOLGARI DI  
PAOLO MANUTIO.

AL CARDINALE POLO.

REVERENDISS. & Illustriss. sig. mio osservandiss. Se io havesse tanto di otio, quanto ho volontà e desiderio di scrivere V. S. Reverendiss. in qualunque cosa ella mi commandi: io mirando certissimo, che M. Andrea Sbardellato partirebbe hora da me assai piu sodisfatto, che non è. per che, douendo io, e uolendo essere con lui molte hore del giorno, per discorrere intorno al modo dello scrivere latino; nel che ci è che dire forse piu, che alcuni non pensano: rarissimi giorni mi è uenuto fatto di poter essere con lui un' hora intera senza essere interrotto. la onde supplico V. S. Reverendiss. che in cosi fatto mio mancamento le piaccia d'iscusarmi, e di accettare da me la uolontà per l'effetto. Quanto a M. Andrea, per quanto d'assai chiari segni posso comprendere, è giouane da fare una eccellente riuscita in ogni sorte di studi, ma sopra tutto nell'eloquenza: nella quale nego ch'egli ha fissi i suoi pensieri. e faccio questo pronostico, che, quando habbi etio & indirizzo nella buona uia dello stile, le quali due cose, doue hora egli è, non possono mancaregli, honorerà se stesso, e la patria sua. e piacesse a N. S. Dio, che l'Italia hauesse molti giouani

SECONDO.

40

mi non dirò di tale ingegno, che felice è ella ueramente in questa parte, ma di tale uolontà: che, doue ciò fosse, senza dubbio la lingua latina, la quale pende a ruina, ripiglierebbe forza, e fermerebbe in quello stato, doue e rombi e sacerdoti con tante fatiche si sono sforzati di ridurla. Restami a ringraziare V. S. Reverendiss. della sua cortese offerta, della quale ho inteso da Monsig. Reverendiss. Legato, a beneficio mio, & insieme di tutti i studiosi delle buone lettere, & honorate scienze. di che, si come io debbo, terrò sempre memoria: e piu uolontieri con effetti, s'io potrò, che con parole, dimostrerò la gratitudine dell'animo mio. in tanto pregando il S. Dio a donarle contentezza di ogni suo pensiero, & a conseruarla lungamente a beneficio del mondo; il quale fra molti grandi danni pare che sperando in lei si racconsorti; humilmente me la raccomando. Di Venetia, alli 7. Settembre, 1553.  
Ser. affectionatiss. Paolo Manutio.

A MONSIGNOR PRIVLI, ELETTO  
DI BRESCIA.

REVERENDISS. sig. mio osservandiss. Nissuna cosa hauerai uoluto piu, che ragionare del continuo con M. Andrea Sbardellato intorno allo studio dell'eloquenza, della quale egli è fieramente acceso: ma, quanto poco di spatio a cio fare mi sia stato conceduto parte dalle occupationi della stampa, e parte dalle usate de' miei amici, egli medesimo ogni giorno ha potuto







ABCDEFGHIJKLM  
NOPQRSTUVWXYZ

abcdefghijklm

nopqrstuvwxyz

1234567890

# *Garamond Italic*

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*

*abcdefghijklmnopqrstuvwxyz*

*0123456789 . , ! ? - \_ : ;*

SPECIMEN  
CHARACTERVM SEV  
TYPORVM PROBATISSIMORVM,  
INCONDITE QUIDEM, SED SECVN-  
DVM SVAS TAMEN DIFFERENTIAS PRO-

POSITVM, TAM IPSIS LIBRORVM AVTOREBVL,

QVAM TYPOGRAPHIS APPRIME FIDELI

ET ACCURATE

Edite Capite  
in LIII.

Capite in C.

¶ Quis credidit Auditui nostro: & brachium Iehouæ cui Re-  
uelatum est, Et ascendit sicut virgultum CORA Meo, & velut  
radix de terra deserti: Non erat forma ei, neque decor. ❀ Æ. Æ.

Pete Capite de Garatim.

Aspeximus autem eum, & non erat aspectus, & Non desiderauimus eum videre. Despe-  
ctus fuit & Reiectus inter viros vir dolorum, & expertus Infirmitatem, & veluti absconsio  
faciei Ab eo, despectus inquam, & non putauimus eum. Verè languores nostros ipse tulit,  
& dolores nostros portauit, nos Autem reputauimus Eum plagis affectum, Percussum à

Deo & HVMILIATVM. ❀ W. H. S. G. ❀

Edite Capite de Garatim.

Edite Capite de Garatim.

Edite Capite de Garatim.



A B C D E F G H I J K L M N

O P Q R S T U V W X Y Z À

Å É Î a b c d e f g h i j k l m n o p q

r s t u v w x y z à å é î ã & 1 2 3 4 5 6

7 8 9 0 i 2 3 4 5 6 7 8 9 0 (\$ £ € . , ! ?)

# Caslon

Regular  
*Italic*  
Semibold  
*Semibold Italic*  
Bold  
*Bold Italic*

## *William Caslon*

William Caslon was an English typefounder who, between 1720 and 1726, designed the typeface that bears his name. His work helped to modernize the book, making it a separate creation rather than a printed imitation of the old hand-produced book. Caslon's first specimen sheet was issued in 1734 and exhibited his roman and italic types in 14 different sizes. His types eventually spread all over Europe and the American colonies, where one of his fonts was used to print the Declaration of Independence. Caslon's typefaces combined delicate modeling with a typically Anglo-Saxon vigour.

A B C D E F G H I J  
K L M N O P Q R S  
T U V W X Y Z  
*a b c d e f g h i*  
*j k l m n o p q r*  
*s t u v w x y z*  
1 2 3 4 5 6 7 8 9

1734

Blackletter

Humanist

Old Style

***Transitional***

Modern

Sans Serif

IN CONGRESS, JULY 4, 1776.

# A DECLARATION

BY THE REPRESENTATIVES OF THE

# UNITED STATES OF AMERICA

IN GENERAL CONGRESS ASSEMBLED.

**W**HEN in the Course of human Events, it becomes necessary for one People to dissolve the Political Bands which have connected them with another, and to assume among the Powers of the Earth, the separate and equal Station to which the Laws of Nature and Nature's God entitle them, a decent Respect to the Opinions of Mankind requires that they should declare the causes which impel them to the Separation.

WE hold these Truths to be self-evident, that all Men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty, and the Pursuit of Happiness—That to secure these Rights, Governments are instituted among Men, deriving their just Powers from the Consent of the Governed, that whenever any Form of Government becomes destructive of these ends, it is the Right of the People to alter or to abolish it, and to institute new Government, laying its Foundation on such Principles, and organizing its Powers in such Form, as to them shall seem most likely to effect their Safety and Happiness. Prudence, indeed, will dictate that Governments long established should not be changed for light and transient Causes; and accordingly all Experience hath shewn, that Mankind are more disposed to suffer, while Evils are sufferable, than to right themselves by abolishing the Forms to which they are accustomed. But when a long Train of Abuses and Usurpations, putting invariably the same Object, evinces a Design to reduce them under absolute Despotism, it is their Right, it is their Duty, to throw off such Government, and to provide new Guards for their future Security. Such has been the patient Sufferance of these Colonies; and such is now the Necessity which constrains them to alter their former Systems of Government. The History of the present King of Great-Britain is a History of repeated Injuries and Usurpations, having in direct Object the Establishment of an absolute Tyranny over these States. To prove this, let Facts be submitted to a candid World.

He has refused his Assent to Laws, the most wholesome and necessary for the public Good.

He has forbidden his Governors to pass Laws of immediate and pressing Importance, unless suspended in their Operation till his Assent should be obtained; and he has utterly neglected to attend to them.

IN CONGRESS, JULY 4, 1776.

# A DECLARATION

BY THE REPRESENTATIVES OF THE

# UNITED STATES OF AMERICA

IN GENERAL CONGRESS ASSEMBLED.

**W**HEN in the Course of human Events, it becomes necessary for one People to dissolve the Political Bands which bind them to another, and to assume among the Powers of the Earth, the separate and equal Station to which the Laws of Nature's God entitle them, a decent Respect to the Opinions of Mankind requires that they should declare the causes which impel them to the Separation.

We hold these Truths to be self-evident, that all Men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty, and the Pursuit of Happiness--That to secure these Rights, Governments are instituted among Men, deriving their just Powers from the Consent of the Governed, that whenever any Form of Government becomes destructive of these ends, it is the Right of the People to alter or to abolish it, and to institute new Government, laying its Foundation on such Principles, and organizing its Powers in such Form, as to them shall seem most likely to effect their Safety and Happiness. Prudence, indeed, will dictate that Governments long established should not be changed for light and transient Causes; and accordingly all Experience hath shewn, that Mankind are generally more disposed to suffer, while they are accustomed to Tyranny, than to redress their Grievances by a long Sufferance of it, until a long Train of Abuses and Usurpations, accumulating upon themselves, evinces a Design to reduce them under absolute Despotism, it is their Right, it is their Duty, to throw off such Government, and to provide new Guards for their future Security. Such has been the patient Sufferance of these Colonies; and such is now the necessary Result of their former Submission. The History of the present King of Great-Britain is a History of repeated Injuries and Oppressions, to prove this, let Facts be submitted to a candid and impartial View.

He has refused his Assent to Laws, the most wholesome and necessary for the public Good.

He has forbidden his Governors to pass Laws of immediate and pressing Importance, unless those Laws be suspended in their Operation till he should see fit to signify his Assent to them.

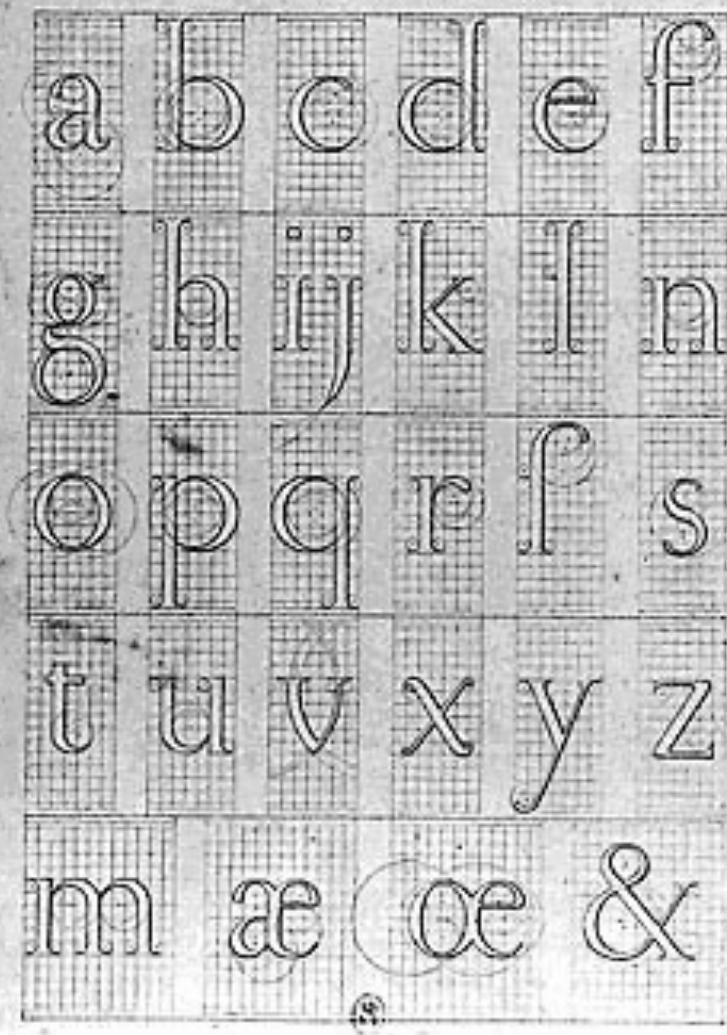
He has dissolved Representative Bodies repeatedly, solely for the Accommodation of large Districts of People, unless those People would reassemble themselves on the Right



*Lettres Capitales Droites.*



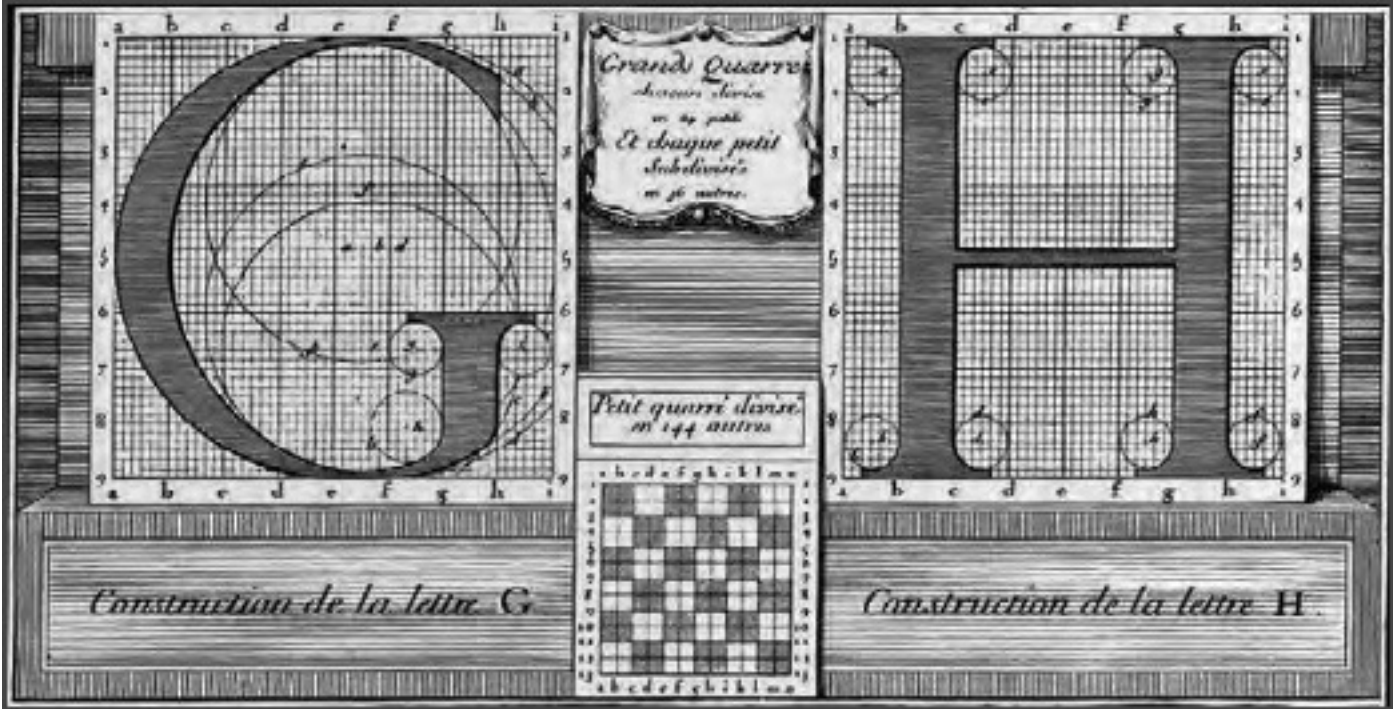
*Construction des Lettres  
Courantes Droites.*



*Grand's Quarre  
dans l'ovale  
en 14 parts  
à chaque part  
subdivise  
en 24 parties*


*Plus quarre dans  
en 14 parties*

*Construction de la lettre M*





**MANUEL**  
**TYPOGRAPHIQUE,**  
*UTILE*  
**AUX GENS DE LETTRES,**  
*Et à ceux qui exercent les différentes*  
*parties de l'Art de l'Imprimerie.*  
 Par FOURNIER, le jeune  
**TOME I.**

  
**A PARIS,**  
 Imprimé par l'Auteur, rue des Postes,  
*& se vend*  
 Chez BARBOU, rue S. Jacques.  
 M. DCC. LXIV.

**TABLE GÉNÉRALE**  
 DE LA PROPORTION  
*des différens Corps de Caractères.*

**ÉCHELLE FIXE**  
*de 144 points Typographiques.*

a b c d e f g h i j k l m n o p q r s t u v w x y z

Nomb.	Corps.	Points
1	PARISIENNE. . . . .	5
2	NOMPAREILLE. . . . .	6
3	MIGNONE. . . . .	7
4	PETIT-TEXTE. . . . .	8
5	GAILLARDE. . . . .	9
6	PETIT-ROMAIN. - 2 Parisiennes.	10
7	PHILOSOPHIE. = 1 Paris. 1 Nomp. pareille.	11
8	CICÉRO. - 2 Nomp. = 1 Paris. sienne, 1 Mignone.	12
9	SAINT-AUGUSTIN. - 2 Mignones. = 1 Nompaille, 1 Petit-texte.	14

# S P E C I M E N

By *J O H N B A S K E R V I L L E* of Birmingham.

**I** Am indebted to you for two Letters dated from Corcyra. You congratulate me in one of them on the Account you have Received, that I still preserve my former Authority in the Commonwealth: and wish me Joy in the other of my late Marriage. With respect to the First,

*if to mean well to the Interest of my Country and to approve that meaning to every Friend of its Liberties, may be consider'd as maintaining my Authority; the Account you have heard is certainly true. But if it consists in rendering those Sentiments effectual to the Public Welfare or at least in daring freely to Support and inforce them;*

ABCDEFGHIJKLM  
NOPQRSTUVWXYZ  
abcdefghijklmnop  
qrstuvwxyz  
1234567890

# Baskerville

i love Typography, a  
fine sample text, 123

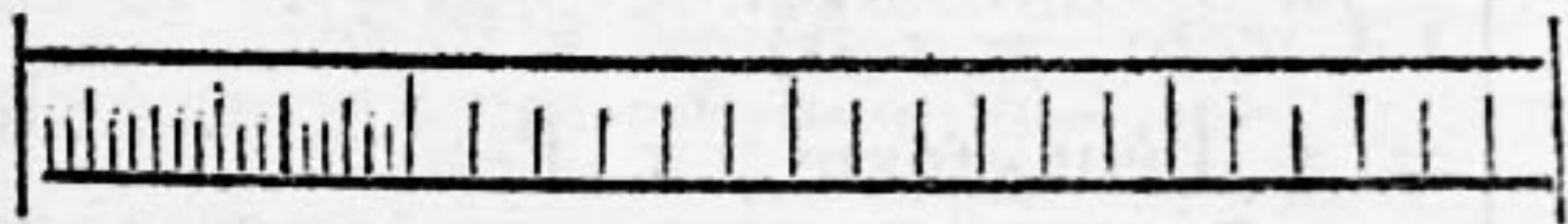
AaBbCcDdEeFfGgHhIiJjKkLlMmNn

OoPpQqRrSsTtUuVvWwXxYyZz

0123456789& “” ?\*

# ÉCHELLE FIXE

*de 144 points Typographiques.*





## Point System

### Sizes of Type

Excelsior . . . . .	3	point
Brilliant . . . . .	4	point
Diamond . . . . .	4½	point
Pearl . . . . .	5	point
Agate . . . . .	5½	point
Nonpareil . . . . .	6	point
Minion . . . . .	7	point
Brevier . . . . .	8	point
Bourgeois . . . . .	9	point
Long Primer . . . . .	10	point
Small Pica . . . . .	11	point
Pica . . . . .	12	point
English . . . . .	14	point

### Thickness of Leads and Slugs

12 to Pica .01383	6 to Pica .0277
10 to Pica .0166	4 to Pica .0415
8 to Pica .0207	2 to Pica .083

### Standards of Measurement for Figures, Spaces and other Matrix Table Characters

1 . . . . .	.01383	11½ . . . . .	.1591
2 . . . . .	.0277	12 . . . . .	.1660
3 . . . . .	.0415	14 . . . . .	.1936
4 . . . . .	.0553	16 . . . . .	.2213
4¾ . . . . .	.0657	18 . . . . .	.2490
5 . . . . .	.0692	20 . . . . .	.2767
5½ . . . . .	.0761	21 . . . . .	.2906
6 . . . . .	.0830	24 . . . . .	.3320
6½ . . . . .	.0899	27 . . . . .	.3736
6¾ . . . . .	.0934	28 . . . . .	.3874
7 . . . . .	.0968	30 . . . . .	.4150
7½ . . . . .	.1037	34 . . . . .	.4704
7¾ . . . . .	.1072	36 . . . . .	.4980
8 . . . . .	.1107	42 . . . . .	.5810
8½ . . . . .	.1176	48 . . . . .	.6640
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High contrast face - thin serifs, horizontal strokes, thick verticals

Bodoni

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**THOROWGOOD ITALIC**

12 Point 40 A. 80 a.; about 11½ lb.  
**THE QUICK RED FOX JUMPS**  
*the quick red fox jumps over the*

18 Point 20 A. 45 a.; about 16½ lb.  
**THE BROWN FOX!**  
*the quick brown fox*

30 Point 10 A. 20 a.; about 21 lb.  
**THE Bold red**

36 Point 5 A. 14 a.; about 22½ lb.  
**FOX Leaps**

48 Point 5 A. 8 a.; about 26 lb.  
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60 Point 3 A. 6 a.; about 31 lb.  
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**THORNE SHADED**

24 Point 14 A.; about 8½ lb.  
**THE QUICK FOX**

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**JUMPS OVER**

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**THE OLD!**

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Serifs on lowercase letters are horizontal and very thick (slabs)

Vertical stress

**Slab Serif**

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# Franklin Gothic

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Breaking News! Exhibitionist finally arrested after years of exposure. See back page for details!

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## The Font That Made Headlines

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- PM fails to win majority
- Chaos of a minority govt
- Poll sparks fear on Brexit



Mayor... PM Theresa May smiles after the general election



Labour... Cameron this morning

By 2010 election night Gordon Brown was crowned the victor. He seemed to have lost his majority in the House of Commons. In 2015, Cameron's coalition always looked a shakily elected, with government at risk. The Tories were led by an old man, leaving the door open for the SNP to take a majority. The PM's main strategy was to increase her majority of 12 seats across in four solid constituencies. It was her last gamble. She had lost the 2015 election but she had not lost the 2017 election. She had lost the 2017 election. She had lost the 2017 election.

# THERESA DISMAY

ELECTION DRAMA: PAGE 2, 3, 4, 5, 6, 1 & 8, 9, 10

LATEST POLL PROJECTION



The logo consists of a red circle with a white center. A dark blue horizontal bar is superimposed across the middle of the circle, containing the word "UNDERGROUND" in white, bold, sans-serif capital letters.

**UNDERGROUND**

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"All the News  
That's Fit to Print"

# The New York Times

LATE CITY EDITION

Weather: Rain, warm today; clear tonight. Sunny, pleasant tomorrow. Temp. range: today 80-66; Sunday 71-66. Temp.-Hum. Index yesterday 69. Complete U.S. report on P. 50.

VOL. CXVIII. No. 40,721

© 1969 The New York Times Company

NEW YORK, MONDAY, JULY 21, 1969

10 CENTS

# MEN WALK ON MOON

## ASTRONAUTS LAND ON PLAIN; COLLECT ROCKS, PLANT FLAG

### Voice From Moon: 'Eagle Has Landed'

EAGLE (the lunar module): Houston, Tranquility Base here. The Eagle has landed.

HOUSTON: Roger, Tranquility, we copy you on the ground. You've got a bunch of guys about to turn blue. We're breathing again. Thanks a lot.

TRANQUILITY BASE: Thank you.

HOUSTON: You're looking good here.

TRANQUILITY BASE: A very smooth touchdown.

HOUSTON: Eagle, you are stay for T1. [The first step in the lunar operation.] Over.

TRANQUILITY BASE: Roger. Stay for T1.

HOUSTON: Roger and we see you venting the ox-

TRANQUILITY BASE: Roger.



### A Powdery Surface Is Closely Explored

By JOHN NOBLE WILFORD

Special to The New York Times

HOUSTON, Monday, July 21—Men have landed and walked on the moon.

Two Americans, astronauts of Apollo 11, steered their fragile four-legged lunar module safely and smoothly to the historic landing yesterday at 4:17:40 P.M., Eastern daylight time.

Neil A. Armstrong, the 38-year-old civilian commander, radioed to earth and the mission control room here:

"Houston, Tranquility Base here. The Eagle has landed."

The first men to reach the moon—Mr. Armstrong and his co-pilot, Col. Edwin E. Aldrin Jr. of the Air Force—brought their ship to rest on a level, rock-strewn plain near

# U.S. ATTACKED HIJACKED JETS DESTROY TWIN TOWERS AND HIT PENTAGON IN DAY OF TERROR

## A CREEPING HORROR

### Buildings Burn and Fall as Onlookers Search for Elusive Safety

By N. R. KLEINFIELD

It kept getting worse.

The horror arrived in episodic bursts of rising disbelief, signified first by creaking floors, sharp eruptions, cracked windows. There was the actual unfathomable realization of a gaping, flaming hole in first one of the tall towers, and then the same thing all over again in its twin. There was the merciful sight of bodies helplessly tumbling out, some of them in flames.

Finally, the mighty towers themselves were reduced to nothing. Dense plumes of smoke raced through the downtown avenues, clearing between the buildings, shaped like terraces on their sides.

Every sound was cause for alarm. A plane appeared overhead. Was another one coming? No, it was a fighter jet. But was it friend or enemy? People scrambled for their lives, but they didn't know where to go. Should they go north, south, east, west? Stay outside, go indoors? People had been death cars and each other. Some contemplated jumping into the river.

For those trying to flee the very epicenter of the collapsing World Trade Center towers, the most horrid thought of all finally dawned on them: nowhere was safe.

For several panic-stricken hours yesterday morning, people in Lower Manhattan witnessed the inconceivable, the incomprehensible, the unthinkable. "I don't know what the gates of hell look like, but it's got to be like this," said John Maloney, a security director for an Internet firm in the trade center. "I'm a combat veteran, Vietnam, and I never saw anything like this."

The first warnings were small ones. Blacks away, Jim Farmer, a film composer, was having breakfast at a small restaurant on West Broadway. He heard the sound of a jet. An odd sound — too loud, it seemed, to be

Continued on Page A7

## A Somber Bush Says Terrorism Cannot Prevail

By ELISABETH BUMILLER with DAVID E. SANGER

WASHINGTON, Sept. 11 — President Bush vowed tonight to retaliate against those responsible for today's attacks on New York and Washington, declaring that he would "make no distinction between the terrorists who committed these acts and those who harbor them."

"These acts of mass murder were intended to frighten our nation into chaos and retreat, but they have failed," the president said in his first speech to the nation from the Oval Office. "Our country is strong. Terrorist acts can shake the foundation of our biggest buildings, but they cannot touch the foundation of America."

His speech came after a day of trauma that seems destined to define his presidency. Seeking to at once calm the nation and declare his determination to exact retribution, he told a country numbed by repeated scenes of carnage that "these acts shattered steel, but they cannot dent the steel of American resolve."

Mr. Bush spoke only hours after returning from a rigging course across the country, as his Secret Service and military security teams moved him from Florida, where he woke up this morning expecting to press for his education bill, to command posts in Louisiana and Nebraska before it was determined the attacks had probably ended and he could safely return to the capital.

It was a sign of the catastrophe

Continued on Page A4



AMERICAN TARGETS A ball of fire exploded outward after the second of two jetliners slammed into the World Trade Center; less than two hours later, both of the 110-story towers were gone. Hijackers crashed a third airliner into the Pentagon, setting off a huge explosion and fire.

## President Vows to Exact Punishment for 'Evil'

By SERGE SCHIMMANN

Hijackers rammed jetliners into each of New York's World Trade Center towers yesterday, toppling both in a hellish storm of ash, glass, smoke and leaping victims, while a third jetliner crashed into the Pentagon in Virginia. There was no official count, but President Bush said thousands had perished, and in the immediate aftermath the calamity was already being ranked the worst and most audacious terror attack in American history.

The attacks seemed carefully coordinated. The hijacked planes were all en route to California, and therefore gorged with fuel, and their departures were spaced within an hour and 49 minutes. The first, American Airlines Flight 11, a Boeing 767 out of Boston for Los Angeles, crashed into the north tower at 8:48 a.m. Eighteen minutes later, United Airlines Flight 175, also headed from Boston to Los Angeles, plowed into the south tower.

Then an American Airlines Boeing 757, Flight 77, left Washington's Dulles International Airport bound for Los Angeles, but instead hit the western part of the Pentagon, the military headquarters where 24,000 people work, at 9:40 a.m. Finally, United Airlines Flight 93, a Boeing 757 flying from Newark to San Francisco, crashed near Pittsburgh, raising the possibility that its hijackers had failed in whatever their mission was.

There were indications that the hijackers on at least two of the planes were armed with knives. Attorney General John Ashcroft told reporters in the evening that the suspects on Flight 11 were armed that way. And Barbara Olson, a television commentator who was traveling on American Flight 77, managed to reach her husband, Solicitor General Theodore Olson, by cell phone and to tell him that the hijackers were armed with knives and a box cutter.

In all, 266 people perished in the four planes and several score more were known dead elsewhere. Numerous firefighters, police officers and other rescue workers who responded to the initial disaster in Lower Manhattan were killed or injured when the buildings collapsed. Hundreds were treated for cuts, broken bones, burns and smoke inhalation.

But the real carnage was concealed for now by the twisted, smoking, mangled carcasses of the twin towers, in which thousands of people used to work on a weekday. The collapse of the towers caused another World Trade Center building to fall 7 hours later, and several

Continued on Page A14

## Awaiting the Aftershocks

### Washington and Nation Plunge Into Fight With Enemy Hard to Identify and Punish

By R. W. APPLE JR.

WASHINGTON, Sept. 11 — To-planes and heavily armed helicopters crossing overhead, past and present national security officials earnestly debated the possibility of a Congressional declaration of war — but against precisely whom, and in what exact circumstances? What ships were maneuvering to protect New York and Washington. The North American Air Defense Command, which had seemed to many a relic of the cold war, adopted a posture of alert.

Some people were maneuvering to protect New York and Washington. The North American Air Defense Command, which had seemed to many a relic of the cold war, adopted a posture of alert.

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Continued on Page A24

## MORE ON THE ATTACKS

- RESCUERS BECOME VICTIMS Firefighters who rushed to the trade center were killed. PAGE A2
- SEARCH FOR SURVIVORS Some people trapped in the rubble for hours were rescued. PAGE A2
- OFFICIALS SUSPECT BIN LADEN Eavesdropping intercepts at the attacks were cut. PAGE A7
- TERORISTS EXPLOIT WEAKNESS Investigators had criticized predecessors against hijacking. PAGE A7
- CASUALTIES IN WASHINGTON An unknown number of people were killed at the Pentagon. PAGE A8



"All the News  
That's Fit to Print"

# The New York Times

Late Edition

Today, mostly cloudy, a passing afternoon shower, cooler, high 63. Tonight, cloudy, low 53. Tomorrow, mostly cloudy, a couple of showers, high 61. Weather map, Page D1.

VOL. CLX . . . No. 55,393

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NEW YORK, WEDNESDAY NOVEMBER 9, 2016

\$2.00

## TRUMP FORCES BLACK FAMILY FROM HOME



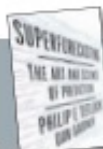


# THE TIMES

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## Brexit puts jobs at risk, say 200 business chiefs

● Uncertainty pushes pound to seven-year low ● PM attacks Boris over second referendum

Francis Elliott Political Editor  
Philip Albrick Economics Editor

The bosses of more than a third of Britain's 100 largest companies are calling for the country to stay in the European Union, providing a boost to David Cameron as he fights to put his referendum campaign back on track.

In a letter to *The Times*, about 200 business leaders employing more than 1.2 million people echo the prime minister's warning that Brexit would put the economy at risk.

The signatories include chairmen or chief executives of 30 companies from the FTSE 100, including big employers such as Asda, BT, Marks & Spencer, Kingfisher and Vodafone. The chief executives of Heathrow and Gatwick have also signed.

The opening barrage in the battle over whether Britain would be better off outside the EU comes after markets dropped sterling in the light of Boris Johnson's decision to join the "leave" campaign.

The pound fell to its lowest level against the dollar in seven years and was at one point on track for its largest single-day fall since fears about Britain's budget deficit were at their peak in May 2010. The pound later recovered some of the lost ground, ending the day 1.7 per cent lower at \$1.456.

Mosley threatened to downgrade the country's credit rating as bookmakers slashed the odds on Brexit and on the London mayor's prospects of making it to No 10.

Mr Cameron hit back, however, using a Commons statement to mock Mr Johnson's ambition and his claim that vote to leave could force other EU leaders to offer a better deal.

In the letter, the bosses of many of Britain's best-known companies as well as those of smaller businesses had pledged to cut red tape, deepen the single market and sign off new trade deals in the agreement finalised after last week's Brussels summit.

"Business needs unrestricted access to the European market of 500 million people in order to continue to grow, invest and create jobs," they write. "We



David Cameron in the Commons yesterday. Business chiefs have boosted his campaign for continued EU membership.

believe that leaving the EU would deter investment and threaten jobs. It would put the economy at risk."

Speculation before the letter's publication had suggested that as many as half would sign it, but Mr Cameron will present it as an unprecedented show of support from British business.

"This is the single biggest number of

business leaders who have been willing to support staying in a reformed EU," said Richard Hall, treasurer of Britain Stronger in Europe, which organised the letter with No 10's support. "What is also striking is the number who have done so on behalf of their companies as well as in a personal capacity."

Critics are likely to focus on signatories

who have given cash to the Tories, friends of Mr Cameron and the 25 who have accepted government roles while he has been in Downing Street. They will all seize on companies that are conspicuous by their absence, such as Tesco, Sainsbury's and B&M.

The "remain" camp is braced for

Continued on page 2, col 1

## Pregnant women get £3,000 for private births

Chris Smyth Health Editor

Mothers-to-be will be handed £3,000 by the NHS to buy the services of private midwives under plans to cut the number of hospital births.

Home births, acupuncture and hypodermic would be offered by companies and midwife co-operatives in exchange for the vouchers as health chiefs aim to ease competition to force the NHS to listen to women's choices.

A long-awaited report on the future of NHS maternity services was ordered in response to the deaths of 11 babies and subsequent cover-ups at the Morecambe Bay trust.

The report tells midwives and doctors to end the culture clashes and turf wars that put safety at risk. The report finds that the NHS has struggled to provide women with personal care from midwives and doctors despite years of promises.

It concludes that allowing women to spend the cost of their NHS care elsewhere will encourage charities and private companies to offer home births and continuous care throughout pregnancy in an alternative way to the health service.

Some independent groups of midwives already offer services to the NHS and the scheme aims to encourage more staff to set up social enterprises. It could also tempt health companies to offer home births and personal midwives to NHS patients.

However, patients will not be allowed to use the budget to top up the costs of more expensive private care.

"It means you will have a wider range of choices and your choice will be respected and implemented," Barbara Chamberlain, the Tory peer who chaired the review, said. "That gives you more authority over where you manage your pregnancy, birth and postnatal care."

In Morecambe Bay, a clash between doctors and midwives, who pushed an agenda of normal birth "at all costs", led to the covering-up of failures from 2004.

The plans immediately caused a dispute about privatisation, with some members of Lady Chamberlain's review team fearful that vouchers could fragment NHS care. James Titcomb, a bereaved father who left the review

Continued on page 4, col 1

### IN THE NEWS

#### Pet search agency

A former police officer has set up a pet detective agency dedicated to tracking down animals that have gone missing from the homes of the well heeled. Page 3

#### RBS avoided tax

The Royal Bank of Scotland was given the green light by HM Revenue & Customs to shelter more than £1 billion in tax through "abusive" avoidance schemes. Page 10

#### Smugglers cash in

People-smuggling gangs collected up to 1.6 billion last year as more than a million migrants made their way into Europe, according to a report by Eurypol. Page 19

#### Fewer join 'caliphate'

The flow of foreign fighters to Islamic State's self-declared caliphate has slowed, but the organisation may be felt in more attacks in the West, the US-led coalition said. Page 20

#### Man Utd through

Manchester United face a home tie against West Ham United in the quarter final of FA Cup after easing past League One Shrewsbury Town 3-1. Sport, pages 66-68

#### THE DANGERS OF BREXIT ARE WILDLY EXAGGERATED



Free supplement

# The best culture of 2017

How to be stronger, smarter & kinder



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## My favourite funny book

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David Lodge  
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# theguardian

## Humanitarian crisis in NHS, says Red Cross

### Doctors warn of 'untold patient misery' following deaths in hospital corridors

**David Campbell and Helen Wells**  
The NHS is facing a "humanitarian crisis" as hospitals and ambulance services struggle to cope with rising demand, according to a report by the Red Cross. The charity says that patients are being turned away from hospitals and ambulances, and that some are dying in hospital corridors. The report also says that the NHS is facing a "crisis of confidence" and that the public is losing faith in the service. The Red Cross says that it is providing support to patients and families who are affected by the crisis.

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## The hacker accused of interfering in US election

**Simon Willmet**

After the election is a relatively young woman who, despite the mounting evidence, is still accused of interfering in the US election. The woman is accused of hacking into the email accounts of several US politicians and officials. The woman is accused of hacking into the email accounts of several US politicians and officials. The woman is accused of hacking into the email accounts of several US politicians and officials.

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newspaper of the year

# the guardian

# The battle for London

● Full-scale alert as violent riots spread across capital

● Disorder breaks out in Birmingham city centre

● Prime minister and home secretary return from holiday

**By Adam Blyth, Matthew Taylor, Ben Spurr, Michael Wolf and Gordon Greig**

The police were on alert for rioting and looting in London last night as the city was hit by a wave of violence that spread across the capital.

It was a night of chaos as rioters set fire to shops and looted stores. The violence spread across the capital as rioters set fire to shops and looted stores. The violence spread across the capital as rioters set fire to shops and looted stores.

The violence continued into the early hours of the morning as rioters set fire to shops and looted stores. The violence spread across the capital as rioters set fire to shops and looted stores.

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Rioters jump from a building in London last night as rioting spread across the capital.

**London**

● **Police on full-scale alert as rioting spreads across capital**

● **Violence breaks out in Birmingham city centre**

● **Prime minister and home secretary return from holiday**

The police were on alert for rioting and looting in London last night as the city was hit by a wave of violence that spread across the capital.

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## Obama's call for urgency fails to prop up plunging shares

Barack Obama's call for urgency to avert a double-dip recession failed to prop up plunging shares in the US last night.

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 PAGES 31

**END OF AN INDUSTRY**  
**WAVE TATA TO 400 SCOTS STEEL JOBS**

**Indian bosses ready to pull the plug on 150yrs of production**  

 BY TORI DELCORRALO  
 SCOTLAND'S steel industry is facing its end with the loss of 400 jobs and the closure of the country's last two plants.  
 The workers of the Iron Works...  
 VIEW TO PAGE 8



**Court date for Whyte**  

 FORMER Rangers owner Craig Whyte did not look like a man facing £20million fraud charges as he breezed into court yesterday with a glamorous female friend by his side. The 47-year-old is accused - along with three others - of conspiring to fund a fraudulent takeover of the club.  
 Another ex-Rangers owner, Charles Green, is charged with conspiring with administrators to take control of the club.  
**SEE PAGES 10&11**

# Daily Record

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## EXCLUSIVE POLL



PERYVT Church leader Masocha

**GUILTY**  
Chirashi's preacher in vile sex attack on girl and woman in his church



VICTIM Chirashi was killed by his mum

**CHRIS CLEMENTS**  
A SELF-STYLED prophet whose church was linked to a child killing was convicted of sex attacks yesterday.  
Femi Chirashi, who killed her son Scott, five, and egged out his aunt, had attended gay preacher Walter Masocha's club-like church.  
Yesterday, Masocha, 51, was found guilty of groping a 13-year-old schoolgirl. He told her that he  
**TURN TO PAGE 4**

# Staggering 51% of Scots say they are voting for Sturgeon..

# THE SCONE OF DESTINY



ON THE RISE  
Sturgeon shows off scones she baked on the campaign trail yesterday and tucks into her homework, below

**DAVID CLEGG**  
MORE than half of Scots plan to vote SNP, according to a poll for the Daily Record.  
The extraordinary findings - which show 51 per cent would back Nicola  
**TURN TO PAGE 10**



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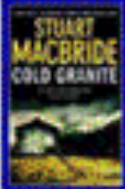
**BBC STAR  
ANDREW MARR  
SERIOUSLY ILL  
AFTER STROKE**



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**END OF JOB  
MISERY FOR  
DIABETES  
SUFFERERS**

SEE PAGE 4



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BY **WESLEYAN** SEE PAGE 29

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# SNOW CHAOS TO CRIPPLE BRITAIN

**Met Office forecast -15°C  
and all areas are at risk**

BRITAIN is braced for weeks of heavy snow set to trigger the worst winter for years and cause chaos across the country.

Temperatures are expected to plunge to -15°C (5°F) in several parts from the weekend - with up to five inches of snow possible.

Forecasters said the worst weather has a potential to be worse than what we saw in the winter of February as winter finally returns with a vengeance.

Last night, 15 million homes had to make preparations for the cold and freezing air that is expected to arrive, with snow up to five inches deep, falling over the north.

At the moment, the Met Office said it is likely to be a winter where temperatures will be below freezing for much of the time, with snow and ice likely to be common across Britain and much

of northern Europe.

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**Strictly's Len: We must keep an eye on elderly loved ones**

SEE PAGE 7

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# BRITAIN'S 40% SURGE IN ETHNIC NUMBERS

**9 million living here  
are non-white, says  
government report**

By Sarah O'Grady Social Affairs Correspondent

**THE** face of Britain has "changed forever" after mass immigration fuelled a 40 per cent increase in the nation's ethnic minority population.

The huge rise over just eight years means more than nine million people in England and Wales – equivalent to one in six of the population – are now from a "non-white" background. The figures from the Office for National Statistics

TURN TO PAGE 7



**Danni in talks for  
big TV comeback  
Day & Night**

EXCLUSIVE: PAGES 20-21

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**Gypsy: 10 more Maddes**



**Comic Kev in horror mask stir**

# KILLER SPIDER MADE MY LEG EXPLODE



**EXCLUSIVE**  
A SPIDER BITED MY LEG AND I WAS IN PAIN FOR DAYS. I WASN'T EVEN ASKED FOR AN ANTI-BIOTIC. I WASN'T EVEN ASKED FOR AN ANTI-BIOTIC. I WASN'T EVEN ASKED FOR AN ANTI-BIOTIC.



**So much pain I wanted to die**

PHOTOGRAPH BY [unreadable]





## FREE REAL LIFE TERROR PULLOUT



TERROR FEAR: Cameron

### Cam gets shoved in the street

DAVID Cameron was shoved in the street in a shocking security blunder. Dean Farley, 38, insisted he was only out jogging when he accidentally collided with the PM.

Full story: Page 2



HUNT: Missing Madeline

### Maddie's suspect in disguise

A PAEDIOPHILE who is to be quizzed over Madeline McCann posed as a retired Royal Navy officer. Roderick Madenard, 76, was finally arrested in Malta.

Full story: Page 16

# BRITAIN'S FATTEST WOMAN ATE FRIDGE & DIED



## EXCLUSIVE

BRITAIN'S fattest woman died weighing 40 stone after eating her own fridge.  
Brenda Davies crammed it with her favourite snacks and fizzy pop and moved it next to her bed so it was easier for her to gorge on 6,000 calories a day. Doctors warned her to "lose weight or die" but she confessed: "Food is an addiction I can't fight."

Full story: Page 9

## 6,000 calories a day from stash next to bed

Free **GIANT** map of Britain inside tomorrow

# Daily Mail



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The Sincere: Sir Terence Etherton

Worked with Tony Blair: Lord Justice Sales

The Europhile: Lord Chief Justice Thomas

**Fury over 'out of touch' judges who defied 17.4m  
Brexit voters and could trigger constitutional crisis**

# ENEMIES OF THE PEOPLE

MPS last night tore into an unelected panel of 'out of touch' judges for ruling that embittered Remain supporters in Parliament should be allowed to frustrate the overwhelming verdict of the British public.

The Lord Chief Justice and two senior col-

By **James Slack** Political Editor

leagues were accused of putting Britain on course for a full-blown 'constitutional crisis' by saying Brexit could not be triggered without a Westminster vote.

The judgment by Lord Thomas - a founding member of the European Law Institute, a club of lawyers and academics aiming to 'improve' EU law - throws

into chaos Mrs May's timetable for invoking article 50 in March next year.

Senior MPs - led by an ex-justice minister - said it was an outrage that an 'unholy alliance' of judges and embittered Remain backers could thwart the wishes of 17.4million Leave voters. They warned that Mrs May could be forced to hold an election early next year if the courts did not back down. Leave

Turn to Page 2