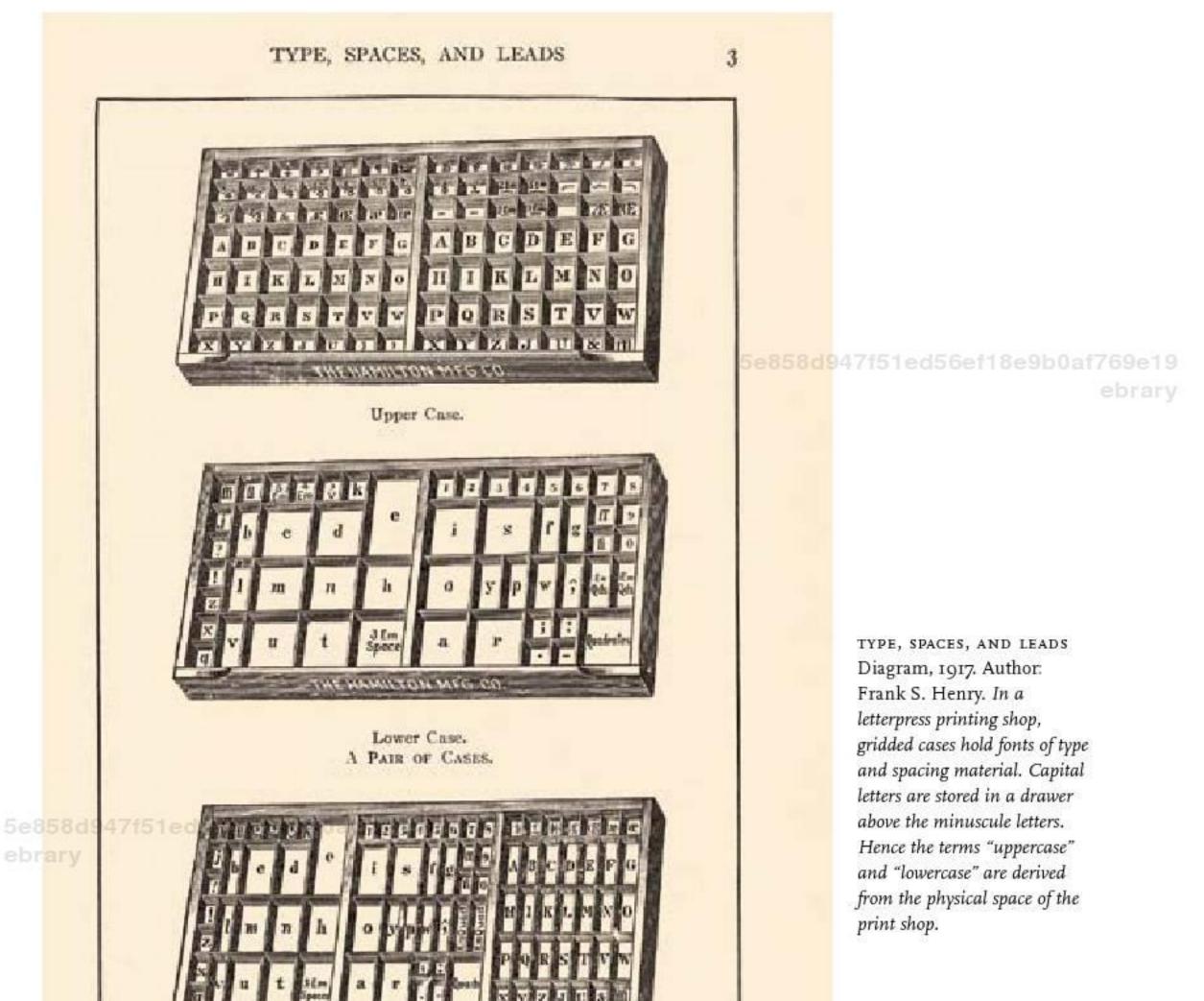
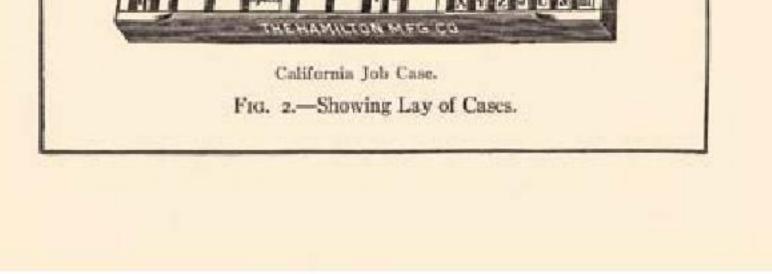
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LETTER

THIS IS NOT A BOOK ABOUT FONTS. It is a book about how to use them. Typefaces are an essential resource employed by graphic designers, just as glass, stone, steel, and other materials are employed by architects. Graphic designers sometimes create their own typefaces and custom lettering. More commonly, however, they tap the vast library of existing typefaces, choosing and combining them in response to a particular audience or situation. To do this with wit and wisdom requires knowledge of how-and whyletterforms have evolved.

Words originated as gestures of the body. The first typefaces were directly modeled on the forms of calligraphy. Typefaces, however, are not bodily gestures-they are manufactured images designed for infinite repetition. The history of typography reflects a continual tension between the hand and the machine, the organic and the geometric, the human body and the abstract system. These tensions, which marked the birth of printed letters over five hundred year ago, continue to energize typography today.

Movable type, invented by Johannes Gutenberg in Germany in the early fifteenth century, revolutionized writing in the West. Whereas scribes had previously manufactured books and documents by hand, printing with type allowed for mass production: large quantities of letters could be cast from a mold and assembled into "forms." After the pages were proofed, corrected, and printed, the letters were put away in gridded cases for reuse.

Movable type had been employed earlier in China but had proven less Allenligiti maribs.fr useful there. Whereas the Chinese writing system contains tens of mus pulne thousands of distinct characters, the Latin alphabet translates the sounds of filip iamb-li speech into a small set of marks, making it well-suited to mechanization. Gutenberg's famous Bible took the handmade manuscript as its model. Emulating the dense, dark handwriting known as "blackletter," he reproduced its erratic texture by creating variations of each letter as well as numerous ligatures (characters that combine two or more letters into a single form).

JOHANNES GUTENBERG Printed text, 1456.

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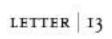
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This chapter extends and revises "Laws of the Letter," Ellen Lupton and J. Abbott Miller, Design Writing Research: Writing on Graphic Design (New York: Kiosk, 1996; London: Phaidon, 1999), 53-61. 5e858d947f51ed56ef18e9b0af769e19



NICOLAS JENSON learned to print in Mainz, the German birthplace of typography, before establishing his own printing press in Venice around 1465. His letters have strong vertical stems, and the transition from thick to thin emulates the path of a broad-nibbed pen.

CENTAUR, designed from 1912 to 1914 by Bruce Rogers, is a revival of Jenson's type that emphasizes its ribbonlike stroke.

RUIT was designed in the 1990s by the Dutch typographer, teacher, and theorist Gerrit Noordzij. This digitally constructed los appellatur mariti euir dicitur frater mar ratriæ appellantur qu: atrueles matrum fratt olobrini ex duabus ed

the iiii wekis, and how 1 lord, yet the chirche mal that is to wete, of that he and of that he cometh to mitini fratrum & mai in thoffyce of the chircl tynges that ben in this one partie, & that othe cause of the comynge of ta sunt in antiquis au ben of joye and gladne

GOLDEN TYPE was created by the English design reformer William Morris in 1890. He sought to recapture the dark and solemn density of Jenson's pages.

ADOBE JENSON was designed in 1995 by Robert Slimbach, who reconceives historical typefaces for digital use. Adobe Jenson is less mannered and decorative than Centaur.

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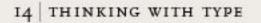
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font captures the dynamic, threedimensional quality of fifteenth-century roman

m dederit dilectis sui tincidunt faucibus. P ALMI IVXTA LXX dignissim lectus. Nun

typefaces as well as their gothic (rather than humanist) origins. As SCALA was introduced in 1991 by the Noordzij explains, Jenson "adapted the German letters to Italian fashion (somewhat rounder, somewhat lighter), and thus created roman type."

Dutch typographer Martin Majoor. Although this thoroughly contemporary typeface has geometric serifs and rational, almost modular forms, it reflects the calligraphic origins of type, as seen in letters such as a.



brary HUMANISM AND THE BODY

In fifteenth-century Italy, humanist writers and scholars rejected gothic scripts in favor of the *lettera antica*, a classical mode of handwriting with wider, more open forms. The preference for *lettera antica* was part of the Renaissance (rebirth) of classical art and literature. Nicolas Jenson, a Frenchman who had learned to print in Germany, established an influential printing firm in Venice around 1469. His typefaces merged the gothic traditions he had known in France and Germany with the Italian taste for rounder, lighter forms. They are considered among the first—and finest—roman typefaces.

Many typefaces we use today, including Garamond, Bembo, Palatino, and Jenson, are named for printers who worked in the fifteenth and sixteenth centuries. These typefaces are generally known as "humanist." Contemporary revivals of historical typefaces are designed to conform with modern technologies and current demands for sharpness and uniformity. Each revival responds to—or reacts against—the production methods, printing styles, and artistic habits of its own time. Some revivals are based on metal types, punches (steel prototypes), or drawings that still exist; most rely solely on printed specimens.

Italic letters, also introduced in fifteenth-century Italy, were modeled on a more casual style of handwriting. While the upright humanist scripts appeared in expensively produced books, the cursive form thrived in the cheaper writing shops, where it could be written more rapidly than the carefully formed *lettera antica*. Aldus Manutius, a Venetian printer, publisher, and scholar, used italic typefaces in his internationally distributed series of small, inexpensive printed books. For calligraphers, the italic form was economical because it saved time, while in printing, the cursive form saved space. Aldus Manutius often paired cursive letters with roman capitals; the two styles still were considered fundamentally distinct. In the sixteenth century, printers began integrating roman and italic

- s ed ne forte tuo area Hic timor est ipsis
- N on adeo leuiter nost Vt meus oblito pulu
- I llic phylacides iucu: Non potuit cæcis im
- s ed cupidus falsis atti The∏alis antiquam
- I llic quicquid ero fer Traicit or fati litto
- I llic formos a uenian Quas dedit argui Quarum nulla tua fi Gratior, & tellus k Quanuis te longæ rei Cara tamen lachry

5e858d947f51ed56 FRANCESCO GRIFFO designed roman and italic types for Aldus Manutius. The roman and italic were conceived as separate typefaces.

forms into type families with matching weights and x-heights (the height of the main body of the lowercase letter). Today, the italic style in most fonts is not simply a slanted version of the roman; it incorporates the curves, angles, and narrower proportions associated with cursive forms.

JEAN JANNON created roman and italic types for the Imprimerie Royale, Paris, 1642, that are coordinated into a larger type family. comme i'ay des-ia remarqué, * S. Auguftin demande aux Donatistes en vne semblable occurrence : Quoy donc ? lors que nous lisons, oublions nous comment nous auons accoustumé de parler? l'escriture du grand Dieu Aug. lib. 33. contra Faust.c. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum loquis lisons Aug. lib. 33. contra Faust.c. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum loquis lisons Aug. lib. 33. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum loquis lisons Aug. lib. 33. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum loquis lisons Aug. lib. 33. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum lo-Quis lisons Aug. lib. 33. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum lo-Quis lisons Aug. lib. 34. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum lo-Quis lisons Aug. lib. 35. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum lo-Quis lisons Aug. lib. 35. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum lo-Quis lisons Aug. lib. 35. 7. Quid ergo? cum legimus, obliuifcimur quemadmodum lo-Dei aliter no-

On the complex origins of roman type, see Gerrit Noordzij, *Letterletter* (Vancouver: Hartley and Marks, 2000).

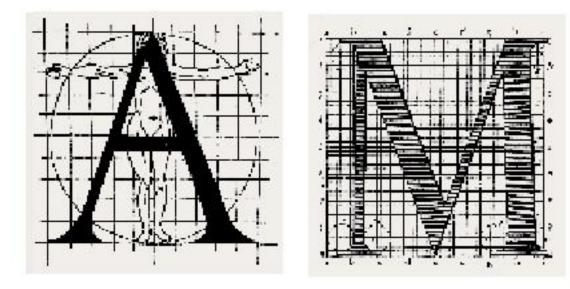
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BANISHING THE BODY FROM TYPOGRAPHY

GEOFROY TORY argued that letters should reflect the ideal human body. Regarding the letter A, he wrote: "the crossstroke covers the man's organ of generation, to signify that Modesty and Chastity are required, before all else, in those who seek acquaintance with well-shaped letters."

WILLIAM CASLON produced typefaces in eighteenth-century England with crisp, upright characters that appear, as Robert Bringhurst has written, "more modelled and less written than Renaissance forms."



LOUIS SIMONNEAU designed model letterforms for the printing press of Louis XIV. Instructed by a royal committee, Simonneau designed his letters on a finely meshed grid. A royal typeface (romain du roi) was then created by Philippe Grandjean, based on Simonneau's engravings.

By WILLIAM CASLON, Letter-Founder, in Chifwell-St

BC ABCDEFGHJIKLMNOP ABCDEFGHJIKLMNOP ABCDEFG

DOUBLE PICA ROMAN.

Double Pica Italick. Quousque tandem abutere, Cati- Quousque tandem abutere, Catili- et lina, patientia nostra ? quamdiu na, patientia nostra ? quamdiu

GREAT PRIMER ROMAN. Great Primer Italick. Quausque tandem abatére, Catilina, pa- Rusufque sandres abutére, Catilina, pa-

SPECIMEN

By 70 HN BASKERVILLE of Birmingham.

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I Am indebted to you for two if to mean well to the Interest of my Letters dated from Corcyra. Country and to approve that meaning

JOHN BASKERVILLE was a printer working in England in the 1750s and 1760s. He aimed to surpass Caslon by creating sharply detailed letters with more vivid contrast between thick and thin elements. Whereas Caslon's letters were widely used during his own time, Baskerville's work was denounced by many of his contemporaries as amateur and extremist.

AUSTERLITI. RELATAM A GALL DUCE

GIAMBATTISTA BODONI created letters at the close of the eighteenth century that exhibit abrupt, unmodulated contrast between thick and thin elements, and razor-thin serifs unsupported by curved brackets. Similar typefaces were designed in the same period by François-Ambroise Didot (1784) in France and Justus 5e858d94 Erich Walbaum (1800) in 0a1769e19 Germany.



ENLIGHTENMENT AND ABSTRACTION



GEORGE BICKHAM, 1743. Samples of "Roman Print" and "Italian Hand."

5e858 This accusation was reported 0 ebrary to Baskerville in a letter from his admirer Benjamin Franklin. For the full letter, see F. E. Pardoe, John Baskerville of Birmingham: Letter-Founder and Printer Renaissance artists sought standards of proportion in the idealized human body. The French designer and typographer Geofroy Tory published a series of diagrams in 1529 that linked the anatomy of letters to the anatomy of man. A new approach—distanced from the body—would unfold in the age of scientific and philosophical Enlightenment.

A committee appointed by Louis XIV in France in 1693 set out to construct roman letters against a finely meshed grid. Whereas Tory's diagrams were produced as woodcuts, the gridded depictions of the *romain du roi* (king's alphabet) were engraved, made by incising a copper plate with a tool called a graver. The lead typefaces derived from these large-scale diagrams reflect the linear character of engraving as well as the scientific attitude of the king's committee.

Engraved letters—whose fluid lines are unconstrained by the letterpress's mechanical grid—offered an apt medium for formal lettering. Engraved reproductions of penmanship disseminated the work of the great eighteenth-century writing masters. Books such as George Bickham's *The Universal Penman* (1743) featured roman letters—each engraved as a unique character—as well as lavishly curved scripts.

Eighteenth-century typography was influenced by new styles of handwriting and their engraved reproductions. Printers such as William Caslon in the 1720s and John Baskerville in the 1750s abandoned the rigid nib of humanism for the flexible steel pen and the pointed quill, writing instruments that rendered a fluid, swelling path. Baskerville, himself a master calligrapher, would have admired the thinly sculpted lines that appeared in the engraved writing books. He created typefaces of such sharpness and contrast that contemporaries accused him of "blinding all the Readers in the Nation; for the strokes of your letters, being too thin and narrow, hurt the Eye." To heighten the startling precision of his pages, Baskerville made his own inks and hot-pressed his pages after printing. At the turn of the nineteenth century, Giambattista Bodoni in Italy and Firmin Didot in France carried Baskerville's severe vocabulary to new extremes. Their typefaces-which have a wholly vertical axis, sharp contrast between thick and thin, and crisp, waferlike serifs-were the gateway to an explosive vision of typography unhinged from calligraphy.

(London: Frederick Muller Limited, 1975), 68. See also Robert Bringhurst, *The Elements of Typographic Style* (Vancouver: Hartley and Marks, 1992, 1997).

The *romain du roi* was designed not by a typographer but by a government committee consisting of two priests, an accountant, and an engineer. —ROBERT BRINGHURST, 1992

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BUCOLICA

ECLOGA I. cui nomen TITYRUS.

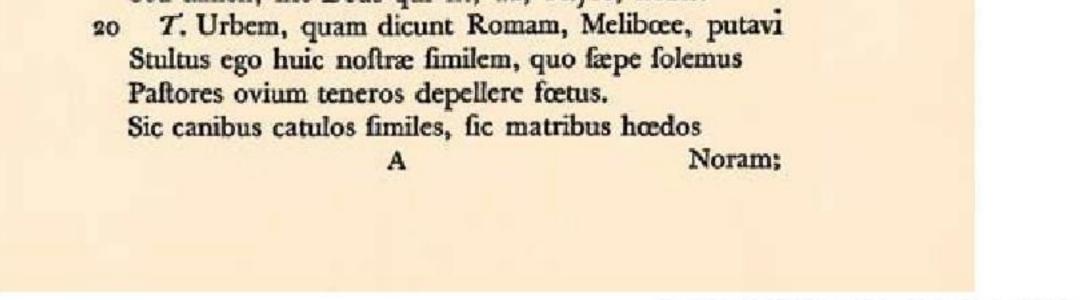
MELIBOEUS, TITYRUS. 5e858d947f51ed56ef18e9b0af769e

TITTRE, tu patulæ recubans fub tegmine fagi Silveftrem tenui Mufam meditaris avena: Nos patriæ fines, et dulcia linquimus arva; Nos patriam fugimus: tu, Tityre, lentus in umbra 5 Formofam refonare doces Amaryllida filvas.

 T. O Melibœe, Deus nobis hæc otia fecit: Namque erit ille mihi femper Deus: illius aram Sæpe tener noftris ab ovilibus imbuet agnus. Ille meas errare boves, ut cernis, et ipfum
 10 Ludere, quæ vellem, calamo permifit agrefti.

M. Non equidem invideo; miror magis: undique totis Ufque adeo turbatur agris. en ipfe capellas Protenus æger ago: hanc etiam vix, Tityre, duco: Hic inter denfas corylos modo namque gemellos,
15 Spem gregis, ah! filice in nuda connixa reliquit, Sæpe malum hoc nobis, fi mens non læva fuiffet, De cœlo tactas memini prædicere quercus: Sæpe finistra cava prædixit ab ilice cornix. Sed tamen, iste Deus qui fit, da, Tityre, nobis.

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> VIRGIL (LEFT) Book page, 1757. Printed by John Baskerville. The typefaces created by Baskerville in the eighteenth century were remarkable—even shocking in their day for their sharp, upright forms and stark contrast between thick and thin elements. In addition to a roman text face, this page utilizes italic capitals, largescale capitals (generously letterspaced), small capitals (scaled to coordinate with lowercase text), and non-lining or old-style numerals (designed with ascenders, descenders, and a small body height to work with lowercase characters).

RACINE (RIGHT) Book page, 1801. Printed by Firmin Didot. The typefaces cut by the Didot family in France were even more abstract and severe than those of Baskerville, with slablike, unbracketed serifs and a stark contrast from thick to thin. Nineteenth-century printers and typographers called these glittering typefaces "modern."

LA THÉBAÏDE, ou les freres ennemis,

TRAGÉDIE.

ACTE PREMIER.

SCENE I. JOCASTE, OLYMPE.

JOCASTE.

Les sont sortis, Olympe? Ah! mortelles douleurs! Qu'un moment de repos me va coûter de pleurs! Mes yeux depuis six mois étoient ouverts aux larmes, Et le sommeil les ferme en de telles alarmes! Puisse plutôt la mort les fermer pour jamaïs, Et m'empêcher de voir le plus noir des forfaits! Mais en sont-ils aux mains?

Both pages reproduced from William Dana Orcutt, In Quest of the Perfect Book (New York: Little, Brown and Company, 1926); margins are not accurate.

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5e858d947f51ed56ef18e9b0af769e19 GIGANTIC, WRATHFUL TYPES

5e858d947f51ed56ef18e9b0af7l ebrary 440 Plan for the Improvement of the Art of Paper War, whilft a paffionate man, engaged in a warm controvering, would thunder vengeance in

French Canon

It follows of courfe, that writers of great irafeibility hold be charged higher for a work of the fame length, than mak authors; on account of the extraordinary fpace their periomances muft neceffarily occupy; for thefe gigantic, withful types, like ranters on the ftage, muft have fufficient elbow-room.

For example : Suppofe a newfpaper quarrel to happen letween * M and L. M begins the attack pretty finartly in

Long Primer.

L replies in

Pica Roman.

M advances to

Great Primer.

L retorts in

Double Pica. And fo the conteft fwells to







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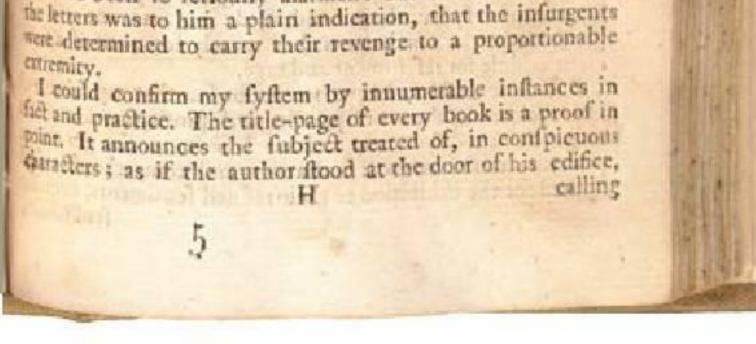


in five line Pica; which, indeed, is as far as the art of print-

A philosophical reason might be given to prove that large open will more forcibly affect the optic nerve than those of a fuller fize, and are therefore naturally expressive of energy and vigour. But I leave this diffeusion for the amufement of the gentlemen lately elected into our philosophical fociety. It is fulficient for me, if my fystem should be found to be jultifed by experience and fact, to which I appeal.

Incollect a cafe in point. Some few years before the war, the people of a weltern county, known by the name of Paxton Boys, affembled, on account of fome diffeontent, in great numbers, and came down with hoftile intentions against the pace of government, and with a particular view to fome leadagmen in the city. Sir John St. Clair, who affumed military commind for defence of the city, met one of the obnoxious prions in the fireer, and told him that he had feen the maminito of the infurgents, and that his name was particularifed metters as long as his fingers. The gentleman immediately packed up his moft valuable effects, and fent them with his inity into Jerfey for fecurity. Had fir John only faid that he ad feen his name in the manifefto, it is probable that he would networe been fo ferioufly alarmed: but the unufual fize of the laters as the fireful alarmed: but the unufual fize of 58d947f51ed56ef18e9b0af769e19 ebrary

> PLAN FOR THE IMPROVEMENT OF THE ART OF PAPER WAR Satirical essay by Francis Hopkinson, The American Museum, Volume 1 (1787). Courtesy of the Boston Public Library. This eighteenth-century essay is an early example of expressive typography. The author, poking fun at the emerging news media, suggests a "paper war" between a lawyer and a merchant. As the two men toss attacks at each other, the type gets progressively bigger. The terms Long Primer, Pica Roman, Great Primer, Double Pica, and Five Line Pica were used at the time to identify type sizes. The [symbol is an s. Hopkinson was no stranger to design. He created the stars and stripes motif of the American flag.



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