

## TYPE DESIGN

### Catching up to the past

The typographer's goal is to provide the best possible reading experience for the reader. Thirty years of disruptive technologies have made this a greater challenge despite the overwhelming number of type designs available to us. Steve Matteson will give several historical and contemporary examples where fonts have been adapted or designed to meet constantly changing technological demands.

ponere idoneo dederunt. Fuerunt autē Menippi sex. Prius  
qui de lydis scripsit: Xanthūq; breviauit. Secūdus hic ipse.  
Tertius straticus sophista. Quartus sculptor. Quintus  
& sextus pictores: utroſq; memorat apollodorus. Cynici au

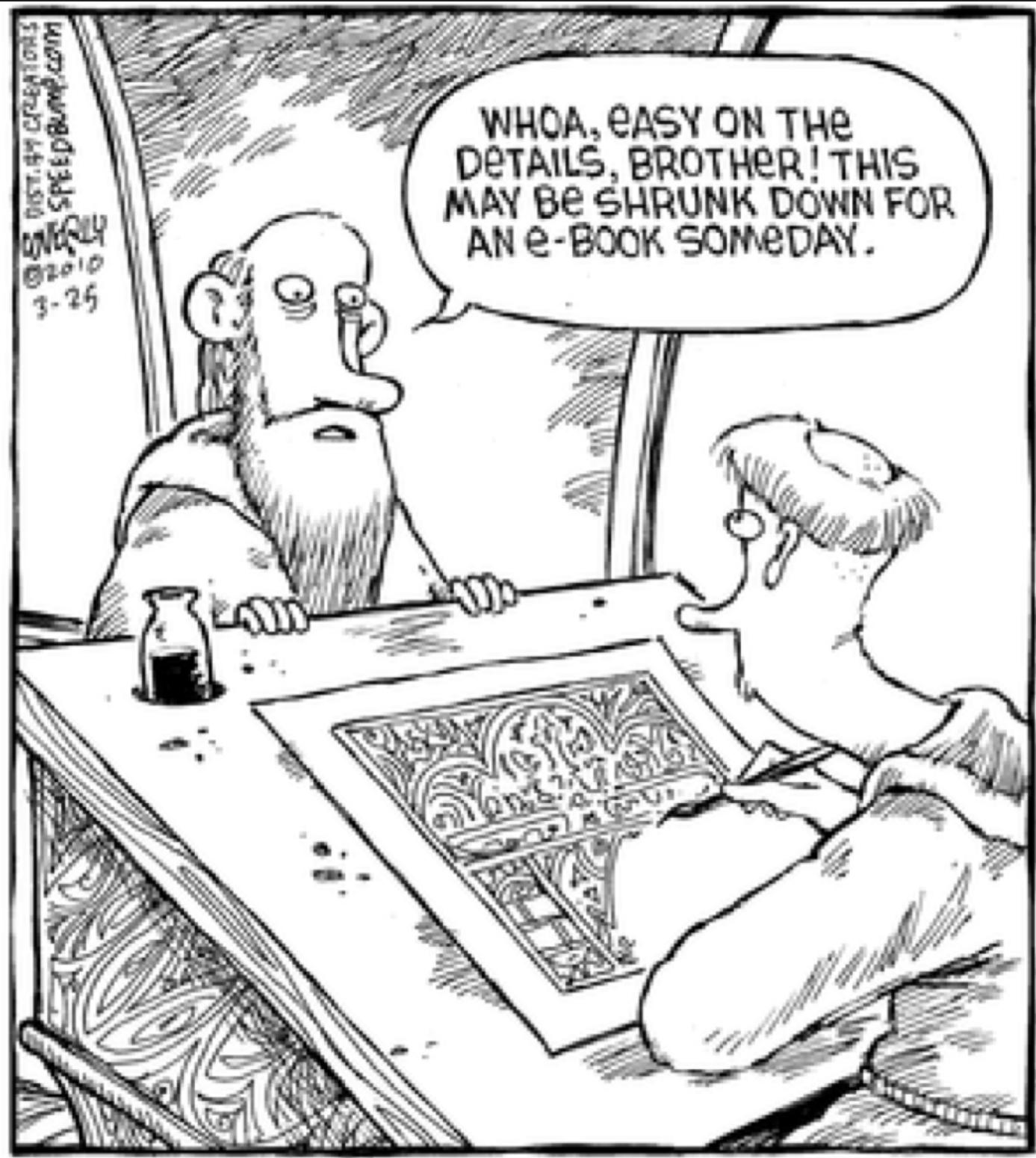
# TYPE DESIGN

## Catching Up to the Past

Quidā eius libros nō ipsius esse sed Dionysii & Zophiri co  
lophoniorū tradunt: qui iocādi causa cōſribentes ei ut dif  
ponere idoneo dederunt. Fuerunt autē Menippi sex. Prius  
qui de lydis scripsit: Xanthūq; breviauit. Secūdus hic ipse.  
Tertius straticus sophista. Quartus sculptor. Quintus  
& sextus pictores: utroſq; memorat apollodorus. Cynici au  
tem uolumina tredecī sunt. Neniæ: testamenta: epistolæ cō  
positæ ex deorum pſona ad physicos & mathematicos grā-

DUSTY PERIN © 2010  
DUSTYPERIN.COM  
3-25

WHOA, EASY ON THE  
DETAILS, BROTHER! THIS  
MAY BE SHRUNK DOWN FOR  
AN e-BOOK SOMEDAY.



“Today's type designer ought  
to aim to design typefaces  
for specific needs.”

—CHARLES BIGELOW

Today's type designer ought to design typefaces for specific needs. A quote from Chuck Bigelow who I met in 1987 when he received the Goudy Award at RIT. It was an epiphany for me as a student.

I'd already fallen hopelessly in love with letters - typefaces, typography, lettering. I'd been steeped in letterforms but where did I fit in?

After all, as a student, you one can study 2k years of letterforms and think 'it's all been done' there's no way I can do better or improve on the achievements of the masters.

Typeface designs have evolved on a parallel course with changes in the way in which technology reproduces them. With each change in technology we, as type designers, have to think about what were the best examples of design using previous technologies. With this understanding we can improve upon designs for the future.

TWO THOUSAND YEARS OF LETTER DESIGN

TWO THOUSAND YEARS OF LETTER DESIGN

**Two Thousand Years of Letter Design**

Two Thousand Years of Letter Design

Two Thousand Years of Letter Design

Two Thousand Years of Letter Design

**Two Thousand Years of Letter Design**

Two Thousand Years of Letter Design

Two Thousand Years of Letter Design

Two Thousand Years of Letter Design



**Athens 18 at the perfect, original size.** *Lucida*

Cream 12 at the perfect, original size.

**London 18 at the perfect, original size.** *Lucida*

Los Angeles 12 at the perfect, original size.

Los Angeles 24 at the perfect, original size.

**San Francisco 18 at the perfect, original size.**

Toronto 9 at the perfect, original size.

Toronto 12 at the perfect, original size.

Lucida  
Lucida  
Lucida

*Lucida*

*Lucida*

This is Times New Roman (18pt)  
This is Times New Roman (24pt)  
This is Times New Roman (36pt)  
This is Times New Roman (48pt)  
This is Times New Roman (60pt)

When I started working with the latest desktop publishing tools at school and in work - I could see that not all fonts could hold up to the limitations of resolution and imaging technologies. New typefaces could be designed like bitmap fonts —which were used for individual sizes – or scalable fonts like Lucida, a family of different styles which worked well together even for bad laser printer output.

I quickly found that Old typefaces were being adapted for new technologies like TrueType. When it came time for me to work on Microsoft's first TT fonts it was already the 3rd time in my short career that I'd be making this font family for a different technology.

Ligatures

Kerning

Imaging

I'm going to look at a few specific aspects of type design that are relevant today and challenge us type designers to come up often with old solutions to new problems . Ligatures – connected letterforms which either correct for shapes that would otherwise collide or simply make a more elegant combination.

Kerning – the space between pairs of letters (different from tracking since kerning historically refers to the removing of material between letters to fit them closer together).

Finally Imaging – how do the letters reproduce under various conditions be it letterpress on dampened paper or shown through an RGB filter on a piece of glass and held in your hand.

All of these topics shown here on a page of printing that launched a hundred typeface interpretations. This is Jenson's typeface of 1470ish. Modeled on an advanced form of the calligraphic "humanist bookhand". This is my first reference to having to look to the past for guidance.

For our ligature example you see the ligated or 'connected' ct, long s t and ss ligatures.

Kerning (or lack thereof) can be spotted between Te. The process of hand setting text is already quite tedious, having to kern every gap in 12pt type would be beyond the pale.

While the Qu below LOOK like they were kerned they were likely cast as a single piece of type to allow the tail to tuck under the u. Given how common this combination is in Latin it was not an unusual practice.

Finally looking at the image quality achieved on this 550 y/o page one can see the letterforms hold up remarkably well in consistency and color. The variables of hand inking, uneven paper surface and the commonality of damaged pieces of type (highlighted here), viewing this at actual size demonstrates a remarkable achievement in letter design, type setting and printing.

Rimo procœmum. Se  
tradēda fint. Tertio u  
diātur. Quarto qua r  
& quæ tradēda fint. Q  
grāmatici. Septimo a  
tium sciētia. Octauo de musicæ  
na pronunciationis & gestus in  
tempore doceri prima ætas possit



Rimo procœmum. Se  
tradēda fint. Tertio u  
diātur. Quarto qua r  
& quæ tradēda fint. Q  
grāmatici. Septimo a  
tium sciētia. Octauo de musicæ  
na pronunciationis & gestus inſ  
tempore doceri prima ætas possit



Rimo procœmum. Se  
tradēda fint. Tertio u  
diātur. Quarto qua r  
& quæ tradēda fint. Q  
grāmatici. Septimo a  
tium sciētia. Octauo de musicæ  
na pronunciationis & gestus inſ  
tempore doceri prima ætas possit

# Ligatures

## Ligatures

One of the first things that strikes the learned observer of the Gutenberg bible is the beautifully aligned justified columns of text.

Gutenberg went to great lengths to make paper smooth enough to print on, ink black enough to look like the ink used by scribes and typeset so carefully in such a way that rubricators could hand color initial letters in red after the black ink was dry. On top of this he cast hundreds of additional special sorts - letter combinations connected in pairs or triples - varying in width and shape just enough to aid in justifying lines of text.

His font of type had about 290 sorts so if a line came out too long or short he had options to adjust the width of the line. Many remark that his columns line up as well as the scribes could do by hand.

in die ira furoris sui. **Mon.** De regalo misit ignau in offibz suis: et cedunt me. **Eph** adiret eis pedibus meis: conuenit ne retrosum. Posuit me desolaram: tota die intercessus confest. **Qun.** Vigilauit iugum iniquitatis meam in manu tue: convolute sunt et imposito collo nro. Infirmata est vix mea: dedit me dñs in manu de qua no poter surgere. **Danach.** Absulit omnes magnitos meos dñs d meo: ut vocauit aduersum me cipus: ut contrectet electos nros. **Louc** calcauit dñs virginis filie iuda. **Ain.** Idcirco ego plorans et oculis mri deducens aquas: quia longe fatus est a me solator: carentia anima mea. **Sad** sum filii mri pñm: quoniam inualuit iniurias. **He** Ego adiret bron manus suas: non est qui consolentur eam. **Mand**auit dñs aduersum iacob in circuitu eis hys. **Sada** est ipsius qsi poluca monstros inter eas. **Gde** Iustus est dñs: quia os eius ab inaudiam provocauit. **Audir** obsecro uniuersi pñs: et uidet dolor meus. **Vergines** me et iumenta mea abiecta in captivitatem. **Coph** Vocauit amicos meos: et ipsi decerpserunt me. **Hacredores** me et leues mei in urbe columpi sunt: quia queruerunt eibz sibi ut refocillaretur anima sua. **Re** Vide dñs quoniam tabularibz est uenit me. **Subiectus** est eis mei in membra: quia amaritudine plena sum. **Scors** uerberat gladius: domi mors similes. **Sen** Audierunt quia ingenuis ego: et non est qui consolentur me. Omnes iniuriae me audiuerunt malum meum: letari sunt quia tu scisti. **Abduxit** die consolacionis: et fecit lites mei. **Tui** Ingredi ac omne malum eis coraser: et deuinenientia

cos fecit uindictasti me propter omnes iniquitates meas. **Mula** cum genitua mea: et cor mei morte. **Aleph.** **Q**uomodo obegit calamite furore suo dñs filia bron. **Protecor** te deo in terra in inclinam isabel: et non es recordarus scabelli prout suum i die furoris sui. **Sech** Precepit autem dñs nec peperit omnia speciola iacob: destitutus in furore suo innumerous virginis iuda: et dñe in terra polluit regnum et principes ei. **Gynd.** Conferit in mea furoris sui quoniam coem iisabel: et uero retrosum degredit suam a facie iumentorum: succendit in iacob qsi igne flammam deuorans i gressu. **Deleth.** Terredit arcam suum quasi iumentum: tremunt decreti suae quasi hostie: et occidit omnem qd pulchrum etat visu. In tabernaculo filii bron ecclauit qsi ignis indignationis suae. **He** factus est dñs uult iniurias: precipitavit israel. **Precepit** autem omnia mentia eius: dissipauit numerous eius: et repluit in filia iuda humiliatum et humiliata. **Vau.** Et dissipauit quasi orum temporum suum: demolitus est tabernaculum suum. Oblivisione tradidit dñs in bron festuam et sabbatu: et in obprobriu et in indignatione furoris sui regnum et sacerdotem. **Zar.** Sepulrit dñs altare suum: maledicent sanctificantem sue: tradidit in manus iniurie muros tuos ei. **Vocauit** becerupt in domo dñi: sicut in die solenni. **Yeth.** Cogitauit dñs dissipare numerum filii bron: retinuit funiculum suum et non auerterit manu suam a punctione. **Iustop** ait iuremale: et nro pacier dissipari est. **Teh.** Deserit sunt i terra porrete ei: peditit et continuo uerbo eius: et genu ei et principes eius in genibus. Non est leg: et pñpiter ei non inuenientur

visione a dñs. **Ioch.** Setnatur in terra: conticetur seors filii bron: colspedetur nre caputa sua. **A**candi sunt alios: abierunt in terra capita sua virgines iherusalē. **Caph.** Defecit pñ lacrimis oculi mei: conurbata sunt vester mea. **L**ibellum est in terra iecoz mei sup continentem filie pñli mei: et defecit parvulus et latens i plantis opidi. **Lauch.** Namibus suis dñeatur ubi est triticum et uini: et deficerent quasi uulcani in plantis cuiusvis: cum regalarent alias suas in finu maru suarū. **Men.** Qui comparabo et vel cui assimilabo te filia ihesalē? **C**ui regnabo et et consolabor et virgo filia bron. **M**agna enim ueritatem continet tua. **Quis** medebitur tuis? **Qun.** Prophete tu uidebit ibi falsa et stulta: nec apenebatur iniuriam tuam: ut ad pacem tuam provocaret. **Viderunt** autem ibi assumpiones falsas et uerionem. **Samach.** Plaustrum sup te manibz omnes trahentes per viam: libilauit et mouerunt capra sua sup filia iherusalē: ecce est uerbis dicens pñli decoris: gaudent uiriles ut te. **In.** Aperteuit sup te os suum quoniam iniuriam tuas bilauit et feruerunt dentibus suis: et dicunt deuorabit. **Ain.** Ita est dñs quod expeditabam: iniuriam: vidimus. **He** Scors de quod cogieauerit: compluerat scionem suum quod preparat a diebus antiquis. **Deleth.** et non ppercoit: leuificauit sup te iniurias: et exaltauit cor tuum hoibz tuos. **Gde.** Clamauit cor eos ad dñm: sup numerum filii bron. **D**edux quasi rottrem lacrimas per diem et noctem: non des uerque eibz: neq; tareat pupilla oculi tu. **Coph.** Confusio: laida in nocte in principio virginarū: effunde scors aqua cor tuum ante conspedi dominum. **Vau.** Et sergit ad numerum tuorum

lrua ab tum manus tuas p anima parvulos tuos: qui sanie preterit in capite omnium compingit. **Re** Vide dñe et considera: quem uindemiantis ita. **S**ego ne comedet mulieres fructu suu: patulos ad mensuram palme? Si orbiculari in sauduario dñi: facredo et propheta? **Sen.** Incertus in terra foris puer et frue: virginis mea et iumentus mei occidetur in gladio intercessus in die furoris tui: præibili: nec inserviet re. **Tau.** Vocasti quasi die sollemnem qui terretur me de accuatu: et non habet in die furoris dñi qui effugiet et celigeretur. Quos edueauit et equum uincit: nec nro columpsit eos. **Aleph.** **E**go uir uidente pauprare mea: in uirga indignationis ei. **Lech.** Sille minauit et adduxit in tembro: et no i lux. **Aleph.** Lament in me uenter conuertit manu suā tota die. **Seth.** Ucuhiam fecit pñli mea et carnis mea: conuertit ossa mea. **Seth.** Edificauit in gressu meo: et occubedit meesse et latore. **Seth.** In tembroste collocauit me: qsi mortuos sempiteros. **Gynd.** Circuiedificauit abdusum me ut non egrediatur: aggrauauit comprehendens me. **Gynd.** Sed et clamauero et cu rogaereto: egduis orationem meam. **Gynd.** Lodus uias meas lapidibus quadratis: levinas meas subuertit. **Deleth.** Ucuf insidijs factus est michi: leo i abscondito. **Deleth.** Benitas meas subuertit: conserge me: poluit me desolata. **Deleth.** Terredit arcu suu: et posuit me quasi signum ab sagittam. **He.** Miser in tribus meis filias pbareret sue. **He.** Satus sum in deolu omni pñlo meo: caniculum tota die. **He.** Sepeluit me a marciuibus: uerberat me abstinatio. **Vau.** Et sergit ad numerum tuorum

A large grid of various Old English characters, including ligatures like 'ff' and 'thorn', arranged in several rows.

A smaller grid of Old English characters, likely showing a subset or a different style of characters.

Almost 300 characters  
including ligatures  
to mimic handwritten  
justification

Jump forward 100 years and we see another example of ligatures mimicking handwriting - in this case the Greek script. Christopher Plantin's polyglot bible shows here, when viewed in detail, ligatures of common combinations of two and three letterforms cast together as one piece of metal type.

Christopher Plantin's  
Greek of ~1560  
mimics handwriting  
with ligatures and  
multiple shapes

· ουαῖς τοιούταις καὶ σεμναῖς συναίωγην μετ', καὶ οὐ  
ξηρά. καὶ ἐγένετο γέτως· καὶ συνήχθη τὸῦδε πὲ ψάκτων  
· εἰς τὰς συναγωγὰς αὐτῷ, καὶ ὥφθη καὶ ξηρά. Ὡς ἔκαλεσεν δὲ  
ξηράν, γῆν· καὶ Τὰς συνάματαῖς οὐδὲν θαλάσση  
δεν ὁ Θεός, ὅπικαλόν· καὶ εἶπεν ὁ Θεός, Βλαστούστω οὐ γῆς  
χόρεῖσθαι εργαστέρια καὶ γένους· καὶ καθόμοιστι οὐ, καὶ  
καέπιμον ποιῶν καρπόν· τὸ περιβάλλον αὐτῷ οὐ μάρτυς·  
· Ὅπις τὸ γῆς· Ὡς ἐγένετο γέτως. καὶ οὐδέποτε οὐ γῆς οὐδὲν  
απεργαστέρια καὶ γένους· Ὡς καθόμοιστι οὐ, Ὡς δύναμις καὶ  
μον ποιῶν καρπόν· τὸ περιβάλλον αὐτῷ οὐ μάρτυς καὶ γένος  
τὸ γῆς· Ὡς εἶδεν ὁ Θεός ὅπικαλόν. καὶ εἶγένετο εἰς τὸν οὐρανὸν·  
πέρι, οὐ μέρει τείτη· Ὡς εἶπεν ὁ Θεός, Φυηθητώσιν φωτιῆρες  
σερεώματι· τὸ περιβάλλον αὐτῷ φαίνεται τὸ γῆς, τὸ διαχρόνιον  
ναμέσον τὸ ημέρας· Ὡς αἴσιεσθαι τὸν οὐρανός· καὶ εἶσαστι εἰς τοὺς  
καὶ εἰς καρπούς, καὶ εἰς ημέρας, καὶ εἰς οὐρανούς· καὶ εἶσαστι  
φαίνεται τὸ περιβάλλον απὸ τὸ περιβάλλον, ὡς οἱ φαίνεται τὸ περιβάλλον  
ἐγένετο γέτως. Ὡς ἐποίησεν ὁ Θεός τὸ δύο φωτιῆρας τοὺς μεγάλους  
τὸν φωτιῆρα τὸν μέγαν εἰς δύο γαῖς τὸ ημέρας· καὶ τὸ φωτιόν  
τὸν ἐλαύαστον εἰς δύο γαῖς τὸν οὐρανός· Ὡς αἰσέσθαις· καὶ εἶτε τὸ  
θεός τὸν περιβάλλον δύο φαίνεται τὸ περιβάλλον· ὡς οἱ φαίνεται τὸ περιβάλλον τὸν γῆν

For the Latin alphabet - post Gutenberg - we have a more basic set of ligatures. The characters which are problematic – like the Qu combination in the Jenson example but more notably in the f and long s.

In this slide you can see how a type founder could cast the type so that it would overhang onto the shoulder of the following letter. This allowed for elegant f shapes – but would cause awkward situations like the dot of the ‘eye’ or the ascenders of h, l etc.

The solution was to create a new sort with a specially designed pair of letters.

When the Lino machine was invented the graceful overhang of f had to be tempered for the sake of mechanization. Ligatures could be added in manually - as shown in this slide - but were often just left out.

The release of the Monotype keyboard and caster 13 years later reintroduced ligatures to the mechanized work flow. An operator could keyboard ligatures directly in the flow of text. For this and other reasons the Monotype machine was preferred for fine book publishing. Again looking to the past to restore lost aesthetics.

fr

fi

f1

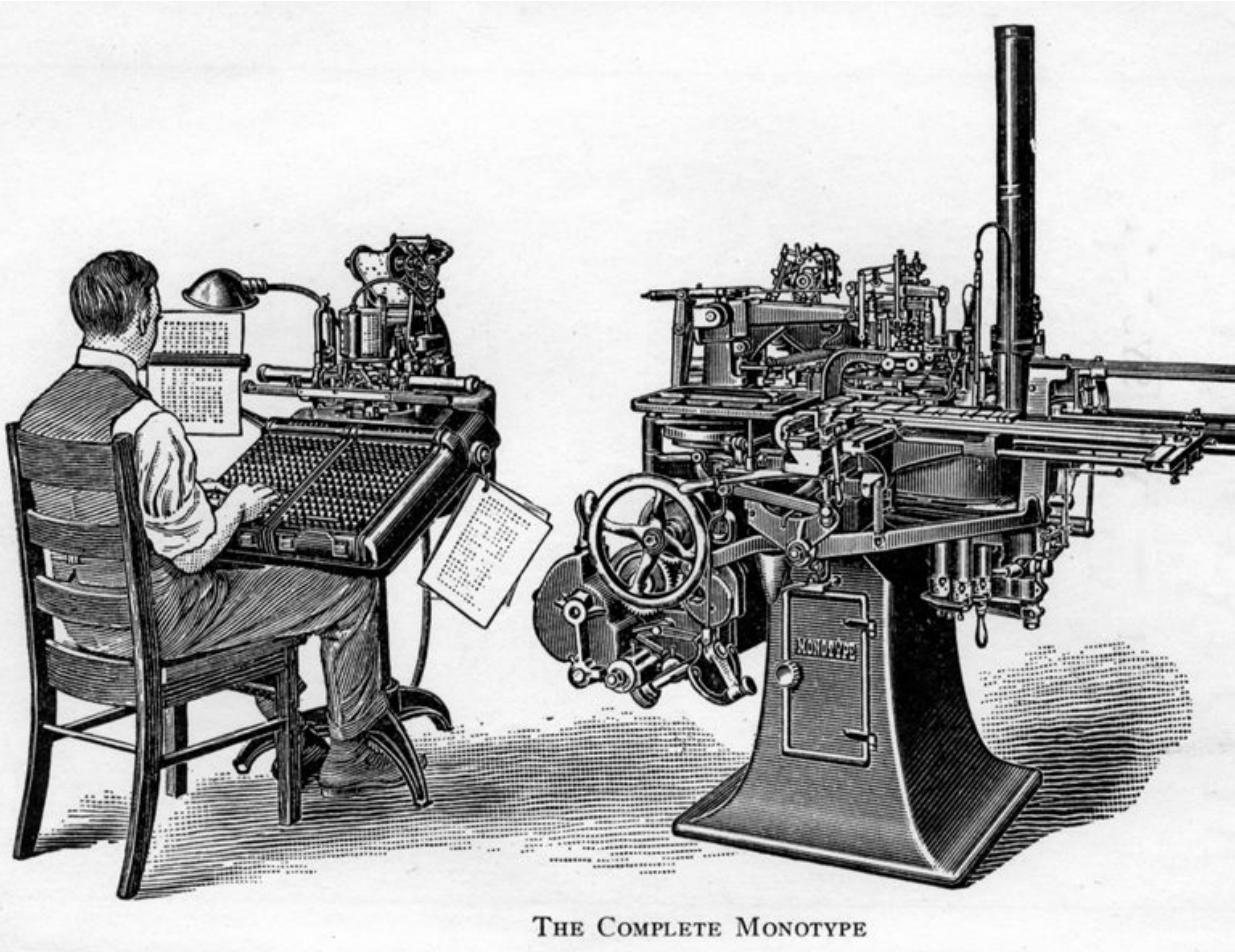


Foundry Type

nfrn

nfin nfn

Linotype Machine 1884



THE COMPLETE MONOTYPE

fr fi

Monotype Machine 1897

Two contemporary examples bring us back to Platin's and Gutenberg's attempts at mimicking handwriting through the use of ligatures (among many other design tricks of course). John Hudson's tour de force, Gabriola has over 4500 characters to include latin, Greek and Cyrillic. But it is unique in its extensive collection of ligatures. I think there are 100 f-ligatures alone. The beautifully comprehensive Greek is similar to Plantin's with as many as 3 chars joined as though they were written by hand.

Herman Zapf's Zapfino has less than half the characters but only supports Latin characters. Naturally a connected typeface such as this requires a huge number of special combinations to help fool the reader into thinking that a document was written specifically for him or her. Who better to concoct such a scheme than a master calligrapher such as the late professor.

Gabriola

ff ligatures | ligatures | σγθή σφά πᾶς

Zapfino

Th ff ft tt th gg ff ph

OpenType 1996

# Kerning

## Kerning

As I alluded to with the Jenson example, Kerning was once a physical and time consuming process. To cut the wood or lead shoulder away from two letters so they fit together neatly required a steady hand and a good saw and file. I experienced this first-hand in our once-great letterpress lab at RIT when, just as our professor walked in, there was a loud ‘Ping’ sound as a piece of type ricocheted out of a power saw. A lab assistant was then admonished for attempting to miter a small piece of metal type and had lost his grip but luckily not any fingers.

This lovely example from Starshaped press, used in an article ‘let’s hear it for the kern’, shows the amount of material that would have to be removed to fit the AV in this font. It also shows that, while the 2nd line is kerned it’s not really much better given the resulting uneven spacing. The I and L would also need to be spaced apart with spacing material to reflect the openness of the AVA combination.

Kerning, as often as not, could make things worse in display typography where not every piece of type is notched. Here the un-kerned word Talking looks better than the kerned result below. Leaves becomes 3 fake French words: le av es.

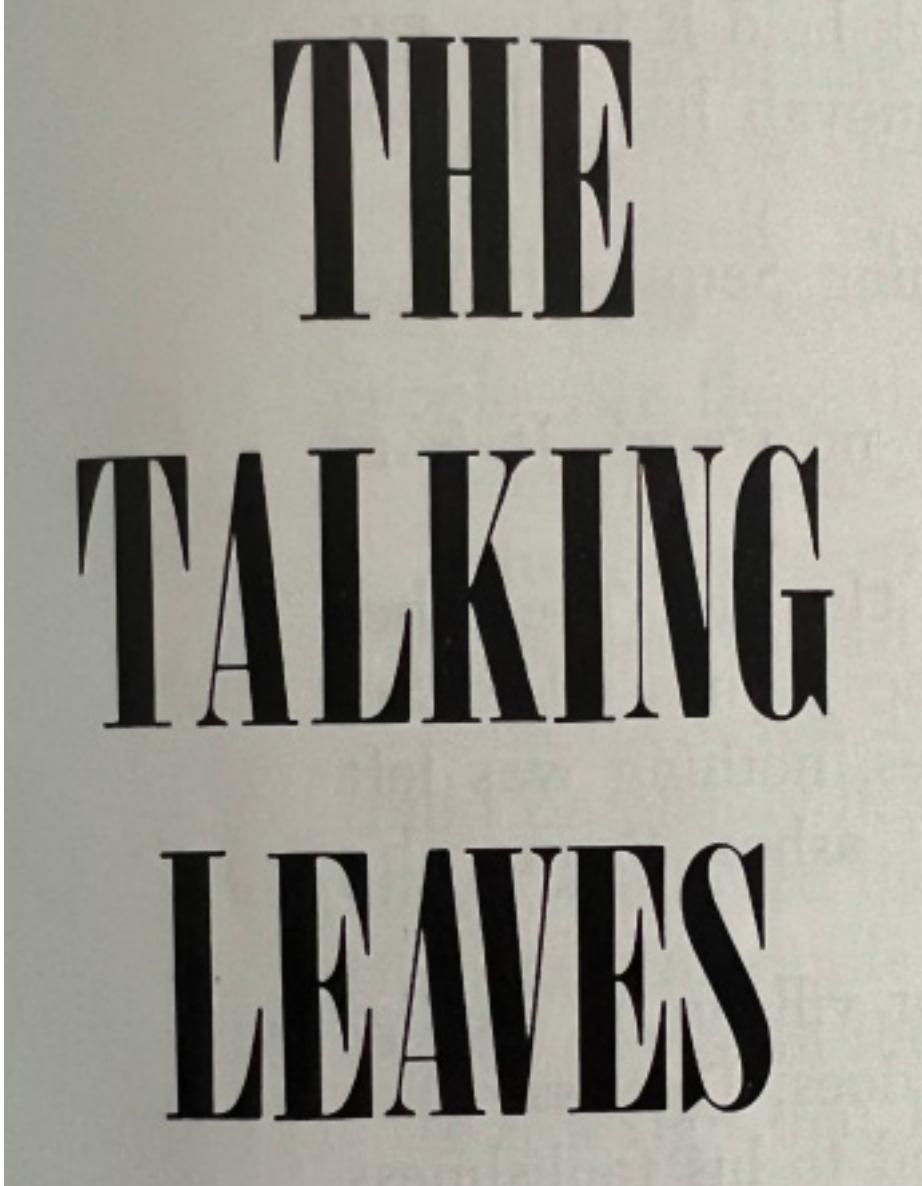


Ter

180pt Kerned (left) – 16pt Unkerned (right)



Courtesy of StarshapedPress.com



THE  
TALKING  
LEAVES

The Talking Leaves

hings quickly changed with photo typesetting - where it was comparatively very easy to kern. Just reverse or advance the filmstrip, expose a character and move on. No risk of losing a finger. "Tight not touching" one descriptor of this style of typography. Some called it sexy spacing. Whatever you called it this style dominated the scene for easily 2 decades. Now I call it kerning and not tracking because the people that were really good at this were not just entering a negative spacing value for whole lines of text - they carefully adjusted each letter combination in each word for the greatest effect.

The master of this style was Herb Lubalin. As a lettering artist he really knew what he was doing when it came to interlocking and fitting letters. In the case of his Avant Garde typeface he nudged letters so close together he needed a huge set of ligatures of overlapping shapes to get the effect he wanted. Sexy spacing indeed.

In the late '70s and early '80s  
“Tight but not touching”  
was the art director’s mantra  
for headline typography.

*(Some touching may have taken place anyway.)*

# AVANT-GARDE, PICASSO'S EROTIC GRAVURES

THIS SPECIAL ISSUE OF AVANT-GARDE IS DEVOTED ENTIRELY TO ONE SUBJECT: A SERIES OF EROTIC GRAVURES, OR ENGRAVINGS, BY PABLO PICASSO, THE PRE-EMINENT ARTIST OF OUR TIME. THEY ARE INTENDED TO STAND AS PICASSO HIMSELF HAS SAID, 'AS AN ABIDING CELEBRATION OF LIFE ITSELF.'

Herb Lubalin

By the time desktop publishing was taking off the sexy spacing schtick was overdone - even farcical. Got a long headline? Just keep hitting the minus button. Never mind using a condensed typeface or just a smaller size.

Out of curiosity I googled Kerning and found 4.4 million hits. Mostly it seems by people who never actually designed a typeface in their lives. All these rules and steps written by people with, perhaps, no practical experience at all. Thank you internet.

My favorite - and probably best piece of advice - kerning is not always a good thing. A title for a *Communication Crts* article that I haven't actually read but the title gives me some hope.

# When you need a change of face.

You bought ATM™ to clean up your text; now add TypeAlign to throw your text a curve—or give it a new slant. And do it so intuitively, you'll wonder why everyone doesn't do it our way.

TypeAlign is incredibly easy to use—no special draw-

Since TypeAlign is a desk accessory, you install it once in your Macintosh® computer, then use it in just about any application. And you can print your creation on any ATM-supported printer or other device, including Apple® ImageWriters®, LaserWriters® and Hewlett-Packard® Desk-

Writers® and Printers®. Of course, TypeAlign works with any

Some Idiot with PageMaker.

GOOGLE: 4,430,000 HITS

What is kerning?

How to kern like a designer

Kerning 2020 update

Kerning text simply

Art of kerning

New rules for kerning

Mathematical route to kerning

10 simple steps to kerning

13 tips to avoid bad kerning

30 kerning fails

Kerning: It's not always a good thing

As far as my own thoughts and approaches for kerning - I go in with the understanding that it is not a cure-all. You can kern to improve the basic rhythm in a typeface but it is impossible to solve the balance of every imaginable scenario – even my own name. In fact I vividly remember my first kerning assignment in school where I was given a 72 pt drawer of type and told to typeset my name in all caps. The instructor said to me ‘ooo you’re going to have fun with this’ referring to the big white gap caused by the TT combination.

Today’s big advantage with kerning is the fact that we can consistently space every re-occurrence of a letter shape. Accented letters and punctuation can all be adjusted to fit together the same way a scribe would combine them by hand.

**AVA** no kern

**VAV** over-kern

**AVAILABLE** just right

**MATTESON → MATTESON**



AVA ÅVÅ ÁVÁ ÄVÄ ÂVÂ  
Avin Åvin Ávin Ävin Âvin  
“A” “Å” “Á” “Ä” “Â”  
Ta Tå Tá Tä Tâ Ṗa Tå Fá Ṗä . . .

# Imaging

Finally I'll discuss Imaging of type and how it's effected type design.

We've already had a good look at Jenson and Gutenberg so let's jump ahead a bit to 1501. When one speaks of beautiful books - and beautiful typography it's pretty easy to get swept away with Aldus Manutius' Virgil and Horace. This is the first use of italic types in print - they were cut by Francesco Griffó and based on pre-Carolinian calligraphic hands like the work of Giovani Tagliente.

Calligraphic Italics were very popular in the Italian Renaissance and reproduced as types allowed more lines to fit per page and gave these books the fashionable look of the day.

Printed on smooth vellum the meticulous details of this gorgeous type hold up beautifully. Thin strokes are not too thin, the rhythm instilled by the italic slant is very regular and even in color.

In 1788 Giambatista Bodoni printed his specimen of typefaces – about 140 individually cut sizes of types. The *Manuale* as it's called clearly shows the contemporary fashion of upright stress and extremely fine hairlines. But it also illustrates an important reality that people in today's digital type world forget. Each size is a slightly different design, cut by hand for maximum style, legibility and proportion.

P.V.M.MANTVANIBV  
COLICORVM  
TITYRVS.

Melibœus. Tityrus.

**T**ityre tu patulæ recubâs sub Me.  
te gmine fagi  
Siluestrem tenui musam meditari  
auena.  
Nos patriæ fines, et dulcia linqui  
mus arua,  
  
N os patriam fugimus, tu Tityre lensus in umbra  
F ormosam resonare doces Amayllida sylvas.  
O Melibœe, deus nobis hæc ocia fecit. Ti.  
N anq; erit ille mihi semper deus, illius aram  
S æpe tener nostris ab ouilibus imbuet agnus.  
I lle meas errare boues, ut cernis, et ipsum  
Ludere, quæ uellem, calamo permisit agresti.  
Non equidem inuideo, miror magis, undiq; totis Me.  
V sque adeo turbatur agris. en ipse capellas  
P rotinus æger ago, hanc etiam uix Tityre duco.  
H ic inter densas corylos modo nanq; gemellos,  
S pem gregis ah silice in nuda connixa reliquit.  
S æpe malum hoc nobis, si mens non leua fuisset,  
D e cœlo tactas memini prædicere quercus.  
S æpe sinistra cana prædixit ab ilice cornix.  
S ed tamen, iste deus qui sit, da Tityre nobis.  
V rbem, quam dicunt Romam, Melibœe putavi Ti.  
S tulus ego huic nostræ similem, quo sæpe solemus

QVINTI HORATII FLACCI CARMI  
NV M LIBER PRIMVS.

AD MOECENATEM, ALIV MALIO  
STUDIO TENERI, SE VERO  
SCRIBENDORVM LY  
RICORVM VER  
SV VM.

ODE .I. Monocolos.

**M**OECENAS atq; editer regi  
bus  
Oe præsidium, et dulce decus  
meum,  
sunt quos curriculo puluerem  
olympicum  
C ollegisse iuuat, metaq; feruidis  
E uitata rotis, palmaq; nobilis  
T errarum dominos euehit ad deos.  
H unc si mobilium turba Q uiritium  
C ertat ter geminis tollere honoribus,  
I llum si proprio condidit horreo  
Q uicquid de libycis uerritur areis  
G audentem patrios findere sarculo  
A gros, attalicis conditionibus  
N unquam dimoueas, ut trabe cypria  
M yrtoüm paibus nauta secat mare.  
L uctantem Icareis fluctibus aphricum  
M ercator metuens, ociū, et oppidi  
L audat rura sui, mox reficit rates

PAPALE  
tondo

Quousq;  
tandem  
abutêre,  
Catilina,

SALUZZO

PARANGONE

Quousque tandem abutêre, Catilina, patientiâ nostrâ? quamdiu etiam furor iste tuus nos eludet? quem ad finem sese effrenata jactabit audacia? nihilne te nocturnum præsidium Palatii, nihil urbis vigiliæ, nihil timor populi, nihil concursus bonorum omnium, nihil hic munitissimus habendi se-

MARCUS TULL. CICERO  
ORATOR ATQUE PHILOSOPHUS.

CHERASCO

To illustrate – what we expect today is for the same typeface to work at every size we select. 4 or 400 point – same letter just a different size. If this were really meant to be, Bodoni’s largest most contrasting size for display would be difficult to read in text. The left you can see the condensed forms and somewhat wobbly rhythm compared to a true - text cut on the right.

Conversely if you were to set the text size as big as the display you’d see how heavy the hairlines are in order that they hold up in small size. ITCs Bodoni claims to be entirely accurate to the type punches that Bodoni cut for 6, 12 and 72pt. I remain a bit dubious about this though I haven’t had the pleasure of going to Parma Italy to see for myself.

Another quick example of using a display face for text. Walbaum’s extreme hairlines are beautiful and elegant in the intended size but blow out in text. This may remind some of things like the Vogue magazine logo whose hairlines are so thin they’d never print well for anything smaller than a logo

# Display

Text Size With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most terrestrial men fancied there might be other men upon mars, perhaps inferior to themselves and ready to welcome a missionary enterprise. Yet across the gulf of space, minds that are to our minds as ours are

# Display

Text Size With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most terrestrial men fancied there might be other men upon mars, perhaps inferior to themselves and ready to welcome a missionary enterprise.

6pt

Bodoni

12pt

Bodoni

72pt

Bodoni

1994 ITC Bodoni

# Display

Text Size With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most terrestrial men fancied there might be other men upon mars, perhaps inferior to themselves and ready to welcome a missionary enterprise. Yet across the gulf of space, minds that are to our minds as ours are to those of the beasts that perish, intellects vast and cool and

# Display

Text Size With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most terrestrial men fancied there might be other men upon mars, perhaps inferior to themselves and ready to welcome a missionary enterprise. Yet across the gulf

Times New Roman - made by Monotype for casting metal newspaper type - had over 30 different master sizes created. Each unique in slightly different ways. When you look at the catalog you might be struck by how legible Times is at 5pt and how elegant it is at 72. This cannot be matched in digital unless different designs are created for this wide range of uses. The digital version of Times was based on the 14pt metal size drawings.

The idea being 14 was text-like enough for extended reading but delicate enough for large sizes. You could call it Times New ‘Average’. It works reliably in text but struggles for the extreme small use. It looks ok in display but loses a great deal of its finesse.

The monotype archive has every drawing of every size of typeface. I found this lovely unique illustration of size overlays. This g from a typeface called Spectrum by Jan van Krimpen shows the nuanced changes from 6, 8, 12pt sizes. You can see slight adjustments to weight and the amount of prescribed spacing on each side.

# TIMES NEW ROMA

REGD. TRADE MARK  
**MONOTYPE**

\*4<sup>1</sup>/<sub>4</sub> PT. (4D) 5<sup>1</sup>/<sub>2</sub> SET LINE M-1231  
U.A. 325

WHEN JOBS HAVE TYPE SIZES FIXED QUICKLY  
MARGINS OF ERROR WIDEN UNLESS ALL OF THE  
When jobs have type sizes fixed quickly  
margins of error widen unless the determining  
calculations are based upon factual rather  
than hypothetical figures. No variation in the  
When jobs have type sizes fixed quickly  
margins of error widen unless the determining  
ABCDEFIGHJKLMNPQRSTUVWXYZ

\*4<sup>1</sup>/<sub>4</sub> (LONG DESC.) ON 4<sup>3</sup>/<sub>4</sub> PT. (4<sup>1</sup>/<sub>2</sub>D)  
5<sup>1</sup>/<sub>2</sub> SET U.A. 325 LINE M-1231

When jobs have type sizes fixed quickly  
margins of error widen unless the determining  
calculations are based upon factual rather  
than hypothetical figures. No variation in the  
amount of copy can affect the degree of error  
once that error has been made. If instead of

5 PT. (4<sup>1</sup>/<sub>2</sub>D) 6<sup>1</sup>/<sub>4</sub> SET LINE M-1210  
U.A. 325

WHEN JOBS HAVE TYPE SIZES FIXED  
QUICKLY MARGINS OF ERROR WIDEN  
When jobs have type sizes fixed quickly  
margins of error widen unless all the  
determining calculations are based on  
factual rather than hypothetical figures  
When jobs have type sizes fixed quickly  
margins of error widen unless the  
ABCDEFIGHJKLMNPQRSTUVWXYZ

5<sup>1</sup>/<sub>2</sub> ON 5<sup>1</sup>/<sub>2</sub> PT. 6<sup>1</sup>/<sub>2</sub> SET LINE M-1268  
U.A. 325

WHEN JOBS HAVE TYPE SIZES FIXED  
QUICKLY MARGINS OF ERROR WIDEN  
When jobs have type sizes fixed quickly  
margins of error widen unless all the  
determining calculations are based on  
factual rather than hypothetical figures  
When jobs have type sizes fixed quickly  
margins of error widen unless all the  
ABCDEFIGHJKLMNPQRSTUVWXYZ

5<sup>1</sup>/<sub>2</sub> PT. (5D) 6<sup>1</sup>/<sub>2</sub> SET LINE M-1239  
U.A. 325

WHEN JOBS HAVE TYPE SIZES FIXED  
QUICKLY MARGINS OF ERROR WIDEN  
When jobs have type sizes fixed quickly  
margins of error widen unless all the  
determining calculations are based on  
factual rather than hypothetical figures  
When jobs have type sizes fixed quickly  
margins of error widen unless the  
ABCDEFIGHJKLMNPQRSTUVWXYZ

6<sup>1</sup>/<sub>2</sub> PT. (6D) 7<sup>1</sup>/<sub>4</sub> SET U.A. 325 LINE M-1250

WHEN JOBS HAVE TYPE SIZES FIXED QUICKLY MARGINS OF ERROR  
When jobs have type sizes fixed quickly margins of error  
widen unless the determining calculations are based upon  
factual rather than hypothetical figures. No variation in the  
When jobs have type sizes fixed quickly margins of error  
unless the determining calculations are based upon factual  
ABCDEFIGHJKLMNPQRSTUVWXYZ

7 PT. (7D) 7<sup>3</sup>/<sub>4</sub> SET U.A. 325 LINE M-1266

WHEN JOBS HAVE TYPE SIZES FIXED QUICKLY MARGINS OF ERROR  
When jobs have type sizes fixed quickly margins of error  
widen unless the determining calculations are based upon  
factual rather than hypothetical figures. No variation in the  
When jobs have type sizes fixed quickly margins of error  
unless the determining calculations are based upon  
ABCDEFIGHJKLMNPQRSTUVWXYZ

7 (LONG DESC.) ON 7<sup>1</sup>/<sub>2</sub> PT. (7D) 7<sup>3</sup>/<sub>4</sub> SET U.A. 325 LINE M-1266

When jobs have type sizes fixed quickly margins of error  
widen unless the determining calculations are based upon  
factual rather than hypothetical figures. No variation in the  
When jobs have type sizes fixed quickly margins of error  
unless the determining calculations are based upon

Combinable

10 (LONG DESC.) ON 11

This "perfect new Corporation for  
much preliminary showed that by  
strokes, instead over the design,  
legible letter reduced quite gen  
nomical in set. T  
of New York, it  
to the U.S.A. as  
heaven-sent med  
these words by p  
every month. The  
value for work i  
class books to s  
It quite justifies  
most important t  
ABCDEFIGHIJ

9 PT. (8D) 9 SET

U.A. 325

LINE M-1

WHEN JOBS HAVE THE TYPE SIZES FIXED QUICKLY  
MARGINS OF ERROR WIDEN UNLESS DETERMINING  
When jobs have type sizes fixed quickly margin  
of error widen unless the determining calculatio  
are based upon factual rather than hypothetic  
When jobs have type sizes fixed quickly margin  
of error widen unless the determining calculatio  
ABCDEFIGHJKLMNPQRSTUVWXYZAI

9 (LONG DESC.) ON 10 PT. (10D) 9 SET U.A. 325 LINE M-1

WHEN JOBS HAVE TYPE SIZES FIXED QUICKLY  
MARGINS OF ERROR WIDEN UNLESS DETERMINING  
When jobs have type sizes fixed quickly margin  
of error widen unless the determining calculatio  
are based upon factual rather than hypothetic  
When jobs have type sizes fixed quickly margin  
of error widen unless the determining calculatio  
ABCDEFIGHJKLMNPQRSTUVWXYZ

10 PT. (10D) 9<sup>3</sup>/<sub>4</sub> SET U.A. 325 LINE M-1

WHEN JOBS HAVE TYPE SIZES FIXED QUICKLY  
MARGINS OF ERROR WIDEN UNLESS DETERMINING  
When jobs have type sizes fixed quickly margin  
of error widen unless all determining calculatio  
are based upon factual rather than hypothetic  
When jobs have type sizes fixed quickly margin  
of error widen unless all the determinin  
ABCDEFIGHJKLMNPQRSTUVWXYZ

SEE CENTRE PANEL OVERLEAF FOR 10 (LONG DESC.) ON 11 PT.S

ABCDEFIGHIJ

ABCDEFGI  
abcdefghijk

ABCDEFGHIJ  
abcdefgij

1234567890 .,:;!  
1234567890 F476

11 PT. (10D) 10<sup>1</sup>/<sub>2</sub> SET U.A. 325 LINE M-1

WHEN JOBS HAVE TYPE SIZES FIXED QUICKLY  
MARGINS OF ERROR WIDEN UNLESS DETERMINING  
When jobs have their type sizes fixed quickly  
margins of error widen unless the determining  
calculations are based upon factual rather than  
hypothetical figures. No variation in the  
When jobs have the type sizes fixed quickly  
margins of error widen unless determining  
ABCDEFIGHJKLMNPQRSTUVWXYZ

16 PT. (16D) 15<sup>1</sup>/<sub>4</sub> SET LARGE COMPOSITION U.A. 42

When jobs have their type sizes fixed quickly  
margins of error widen unless determining  
ABCDEFIGHJKLMNPQRSTUVWXYZ

DISPLAY MATRICES

THE FEW MIXED BLOCKS OF VARYING  
Expect equal workings of demy  
Dexterity must be gained by quiet  
ABCDEFIGHJKLMNPQRSTUVWXYZ

DISPLAY MATRICES

People often read a book  
realizing all the principles involved  
In the same library, with

REGD. TRADE MARK  
**MONOTYPE**

18 (LONG DESCENDERS) ON 20 PT.

DISPLAY MATRIC

Works by the great Va  
Mixed blocks of varyi

20 PT.

DISPLAY MATRICES

So we expect full pa  
Zeal for a type design  
ABEFGHJKLMQI

DISPLAY MATRICES

The bank now reco  
our claim as quite  
I have equalized m  
ABDEGHJKLMN

30 PT.

We have equ  
The few mixe  
ABCDEGHJ

60 PT.

72 PT.  
Works by  
Type with  
ABEGHIJ

42 PT.

Dexterity

# TIMES NEW ROMAN

48 PT.

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

ABDEGHJKLM

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

ABDEGHJKLM

72 PT.  
We have equ  
The few mixe  
abdefg

abdefg

abdefg

abdefg

ABDEGHJKLM

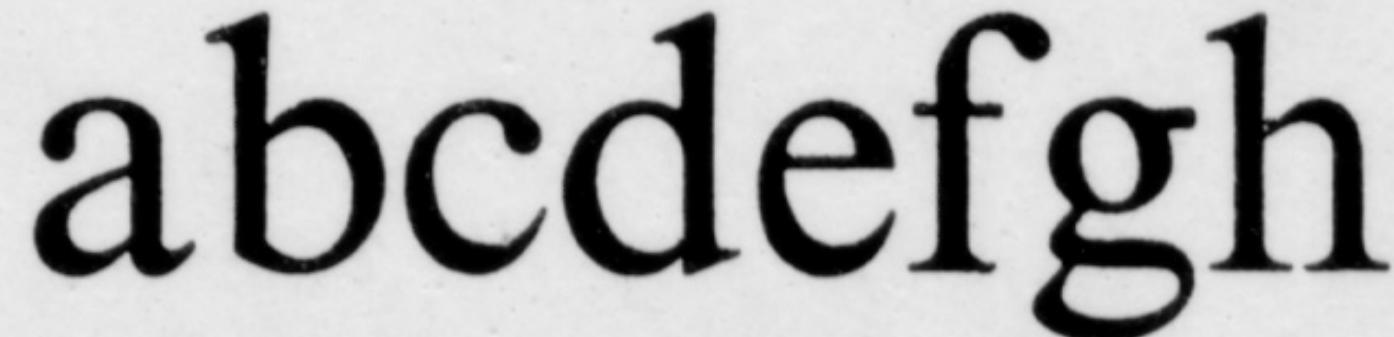
Metal  
Times New Roman

30pt



abcdefghijklmnopqrstuvwxyz a

10pt

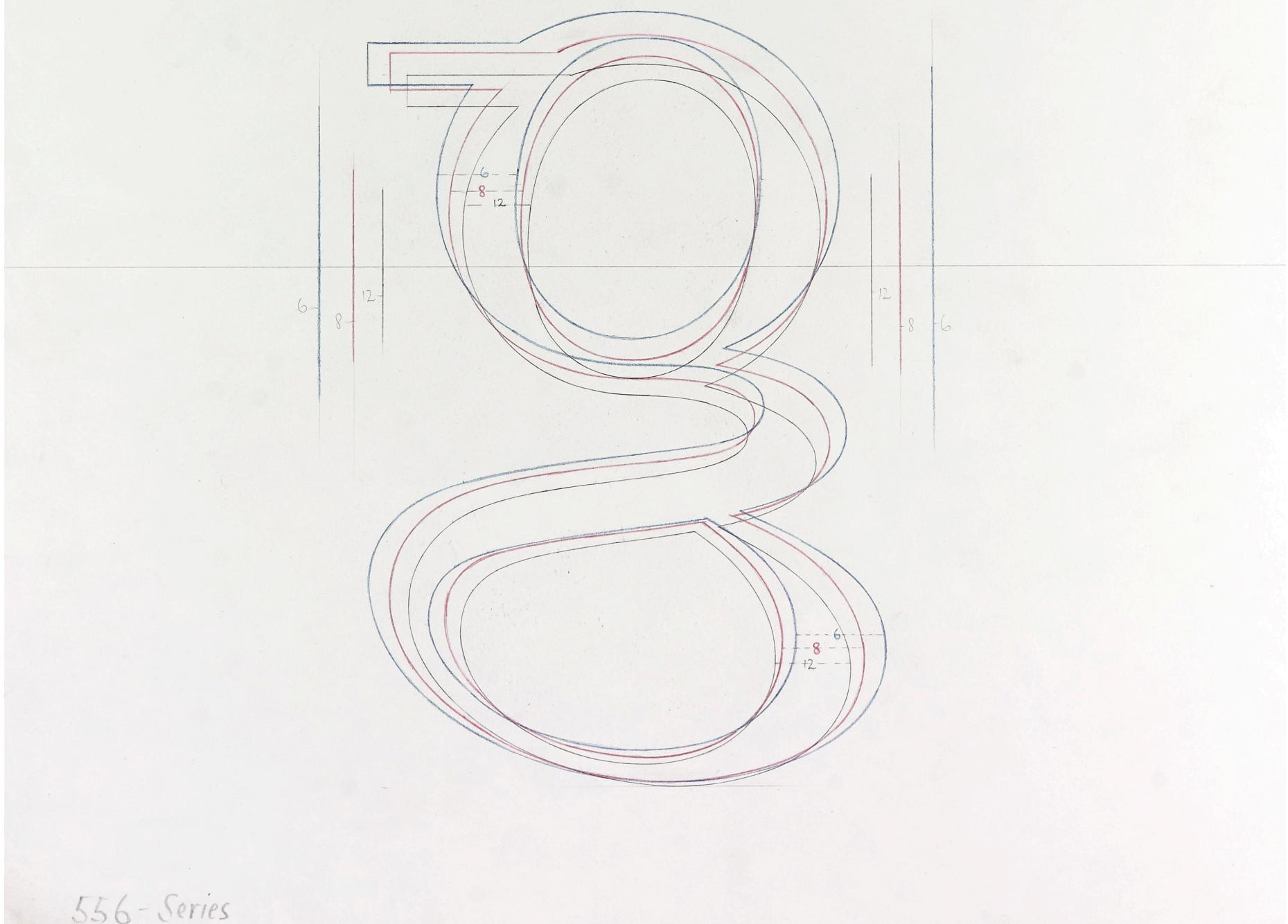


abcdefghijklmnopqrstuvwxyz a

5pt



ulation a



556-Series

his notion of making designs for specific sizes - or size ranges - is what drew me into the fray of the e-reader boom. Seeing how really well designed fonts that were made specifically for print were falling apart in digital products encouraged me to look at size masters for solutions.

The problem of e-Readers was not just of low resolution, the poor contrast of e-ink screens added to the deformation of letterforms. The magnetic disks that were supposed to flip to their black or white sides in the e-Reader hardware didn't always do so which added to the grey-cast of the screens. I think one engineer told me 'white' was actually about 70% grey in the best scenarios.

Amazon had chosen a pretty solid design for the Kindle. Thesis Serif by Lucas de Groot. It had humanist book proportions, was mono linear with sturdy serifs. Most designs of this ilk are not book proportioned – they're typically very geometric such as Rockwell or Stymie and not great for reading extended text.

When Barnes and Noble started developing their competing product - the Nook - I immediately suggested what I thought were outstanding low resolution text fonts – Lucida and Georgia. The results of both were quite bad and one could never have predicted how bad without actually seeing the product firsthand. Here you can see Georgia falling apart with the 4 bits of greyscale and low contrast causing many letter details to consistently drop completely out of sight. Unfortunately I don't have a picture of it but Lucida almost looked like a stencil design as hairlines simply looked detached from the stems.

I decided to try Monotype's Amasis family as a starting point – shown here with improved contrast but still not quite right. I made several edits to the design creating an "e-paper specific" version which bumped up the visual contrast by strengthening hairlines a bit further and increasing the xheight slightly - Just as one would do in making a small-size font master.

PREV PAGE

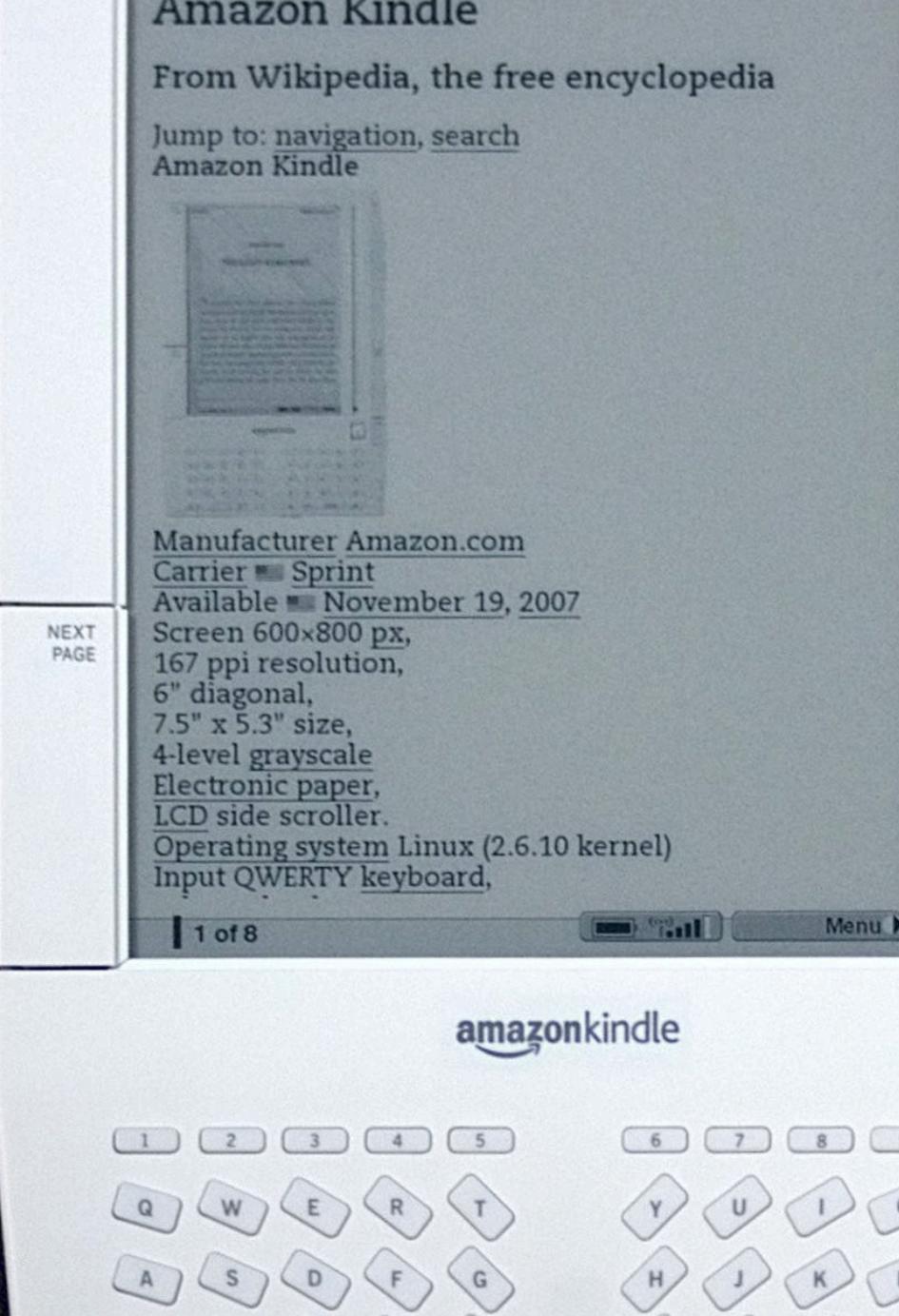
http://en.wikipedia.org/wiki/Amazon\_Kindle Enter URL

# Amazon Kindle

From Wikipedia, the free encyclopedia

Jump to: [navigation](#), [search](#)

Amazon Kindle



Manufacturer [Amazon.com](#)  
Carrier  [Sprint](#)  
Available  November 19, 2007  
Screen 600x800 px,  
167 ppi resolution,  
6" diagonal,  
7.5" x 5.3" size,  
4-level grayscale  
Electronic paper,  
LCD side scroller.  
Operating system Linux (2.6.10 kernel)  
Input QWERTY keyboard,

NEXT PAGE

1 of 8

Menu ▶

Manufacturer  
Carrier  [Sprint](#)  
Available  November 19, 2007  
Screen 600x800 px,  
167 ppi resolution,

2007

E-Ink Screens

# Inevitably, you'll g

Inevitably, you'll g  
font?" when doing  
depends on what fo  
you can add other f

Georgia, designed by Matthew Carter renders poorly on an  
early e-ink screen

# Inevitably, you'll get the

Inevitably, you'll get the font?" when doing application depends on what fonts can add other fonts, and whatever needs the font

be given—all serve to perpetuate in their own ways and for their own purposes the vitality of the ancient Greek tales of war and adventure, magic and miracles

love jealousy murder rape and re

X

SIZE

A

A

A

A

A

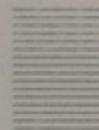
A

A

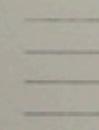
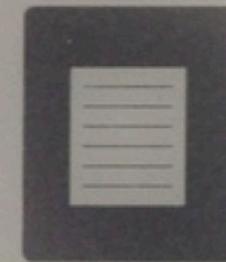
FONT

LINE SPACING

Georgia



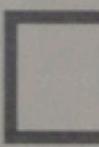
Malabar



Amasis

MARGINS

Tipperary



Avenir Next



▶ Joanna Sans

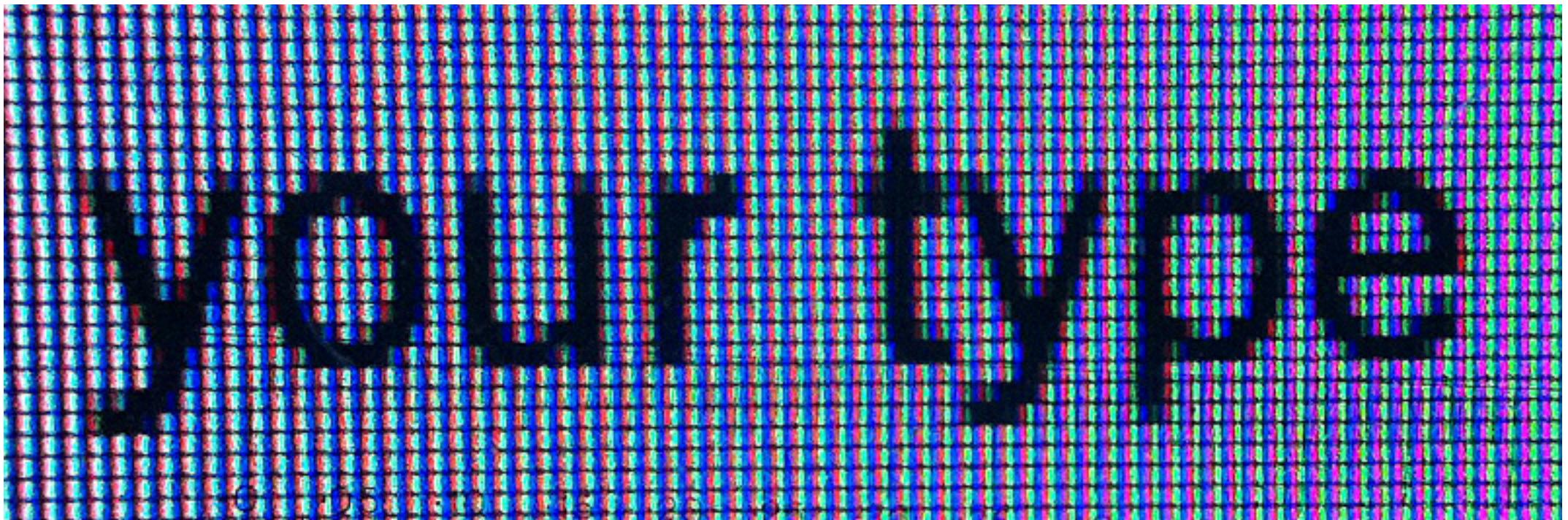


Now, with e-paper's latest generation the resolution is 300dpi and the contrast closer to 90% white. The font menu is far more extensive as a result. The fonts still need more robust qualities than a many existing digital book faces but the options are far greater in number than when they started.

At the same time all of this was happening with e-paper LCDs were gaining in pixel density. LCD monitors, however, varied a great deal from one to another and to complicate things further every platform, browser and some apps all rendered type differently.

Interesting side note - E-reader or tablet companies would order screens, reject them based on some hardware flaws and they'd get sold to automotive companies for their navigation systems further degrading that sector for reading.

This image of different rasterizations of the same typeface - Verdana - illustrate really well the moving targets we faced in designing fonts for screen use. The Segoe typeface I designed for Microsoft's OS in 2004 was carefully analyzed with the ClearType rasterizer turned on. Now the technology has changed and resolution has improved I'm not sure what's being used but it still looks ok.



DWrite

*Rasterizer Specific*

ClearType

*Rasterizer Specific*

Greyscale  
(Anti Aliasing)

*Rasterizer Specific*

Safari  
(Anti Aliasing)

*Rasterizer Specific*

When the iPad came out Apple heralded their book app. They provided a menu of fonts chosen at random rather than by quality for reading on screen. Only Palatino was pleasant to read. They offered Monotype Baskerville but it looked delicate and wan on the iPad screen.

So I once again turned to size masters for the solution. The eText version of Baskerville is based on the 6pt drawings for metal. The serifs and hairlines are quite sturdy and the stems are darker for greater contrast. The height was larger to look ‘bigger on the body’ - becoming more legible in comparative text.

Alas as things go with Apple the advice to switch fonts fell on deaf ears. Fonts aren’t as sexy as apps. Luckily both Amazon and BN picked up the design. Jeff Bezos, in an unprecedented nod to fonts, remarked with fascination that the font he was showing an audience was from the 18th century!

No one would have believed in the last years of the nineteenth century that this world was being watched keenly and closely by intelligences greater than man's and yet as mortal as his own; that as men busied themselves about their various concerns they were scrutinised and studied, perhaps almost as narrowly as a man with a microscope might scrutinise the transient creatures that swarm and multiply in a drop of water. With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most terrestrial men fancied there might be other men upon Mars, perhaps inferior to themselves and ready to welcome a missionary enterprise. Yet across the gulf of space, minds that are to our minds as ours are to those of the beasts that perish, intellects vast and cool and unsympathetic, regarded this earth with envious eyes, and slowly and surely drew their plans against

2010 iPad  
132 dpi LCD Screens

n

Baskerville MT

n

Baskerville E-Text

ere but poor entertainment, and the  
f one of the worst of men, among  
ch our Host made one, who, had he  
hudenter, would have outdone his  
his I think is the most perplexed  
l. From hence, Saturday, Dec. 23, a  
ly day, after an Intolerable night's  
forward only observing in our way  
uated on a Navigable river w<sup>th</sup> in-  
and people more refined than in  
v towns wee had passed, tho' vicious  
and Tavern being next neighbours.  
difficult River wee come to Fairfield  
nd were much refreshed as well with  
ch Latter I employed in enquiring  
n and manners of the people, &c.  
e town, and filled as they

could get nothing there but poor en-  
Impertinent Bable of one of the w  
many others of which our Host ma-  
bin one degree Imudenter, would  
Grandfather. And this I think is  
night I have yet had. From hence,  
very cold and windy day, after an  
Lodging, wee hasted forward only  
the Town to be situated on a Na-  
diferent Buildings and people m-  
some of the Country towns wee had  
enough, the Church and Tavern be-  
Having Ridd thro a difficult River w  
where wee Baited and were much re-  
the Good things w<sup>ch</sup> Latter I em-  
concerning the Town and manne-  
This is a considerable town, and fil-

For all the work put into getting the fonts to look good we still have to put up with stultifying, dull, typography of e-readers. Horrible hyphenation/justification, feeble attempts at chapter navigation and the occasional flying drop capital

43

In the Libby library e-book application they have very few good type choices and pull out the oldest trick in the book saying they have a bold weight of a font but actually let the application alter the regular in a pseudo bold. Literally the rasterizer smears the bitmap in the x direction to appear a little darker. In this case the font gets tracked too - or spaced out in the process. This really gets messy in the word firefighter where the fi ligatures look tight while the rest of the word expands.

The day Thorvald's mother gave changed. Creidhe was weaving, having flying, a fine web of blue and crimson perfect pattern, testimony to the skill of her. So industrious was she, and so much been forgotten. The bestowal of such a task was surely best suited to a moment when Margaret spoke to her son quietly by the hearth. Creidhe could see them through the weaving chamber. They did not argue. In this most orderly of households, the door slam open, and she saw Thorvald

switchboard. Within fifteen seconds every light was on.

"Our cameramen have taken film that has either been confiscated or deliberately exposed. Our reporters' stories have disappeared. Yet we do have film, ladies and gentlemen, and we have correspondents right here in the studio—not professional reporters, but eyewitnesses to what may be the greatest disaster this country has ever faced ... and I do not use those words lightly. We are going to run some of this film for you now. All of it was taken clandestinely, and some of it is of poor quality. Yet we here, who have just liberated our own television station, think you may see enough. More, indeed, than you might have wished."

He looked up, took a handkerchief from his sport-coat pocket, and blew his nose. Those with good color TVs could see that he looked flushed and feverish.

## If You Answer the Door for Strangers...

You see it all the time on television. There's a knock at the front door. And, on the other side, someone is waiting to tell you the news that changes everything. On television, it's usually a police chaplain or a firefighter, maybe a uniformed officer from the armed forces. But when I open the door—when I learn that everything is about to change for me—the messenger isn't a cop or a federal investigator in starched pants. It's a twelve-year-old girl, in a soccer uniform. Shin guards and all.

"Mrs. Michaels?" she says.

I hesitate before answering—the way I often do when someone asks me if that is who I am. I am and I'm not. I haven't changed my name. I was Hannah Hall for the thirty-eight years before I met Owen, and I didn't see a reason to become someone else after. But Owen and I have been married for a little over a year. And, in that time, I've learned not to correct people either way. Because what they really want to know is whether I'm Owen's wife.

It's certainly what the twelve-year-old wants to know, which leads me to explain how I can be so certain that she is twelve, having spent most of my life seeing people in two broad categories: child and adult. This change is a result of the last year and a half, a result of my husband's daughter, Bailey, being the stunningly disinverting age of sixteen. It's a result of my mistake, upon first meeting

Regular

# Answer

Fake Bold

# Answer

Bold

# Answer

# What's Next?

44

For all the problems that crop up it's nice to know that companies like Microsoft still appreciate the value of good fonts. Last year they launched 5 new designs to augment their Office applications. And they're not just new fonts for the sake of new fonts. Their purpose is to expand their font menu into genres they didn't support well before.

45

Particularly great is their attention to purpose. Size specific designs are included in all of these families including my Bierstadt. Not only is there a display version of each (most useful for PowerPoint headlines) but a focus on things like width: how much information one can fit in an spreadsheet cell vs. how legible (or illegible) the design becomes.

46

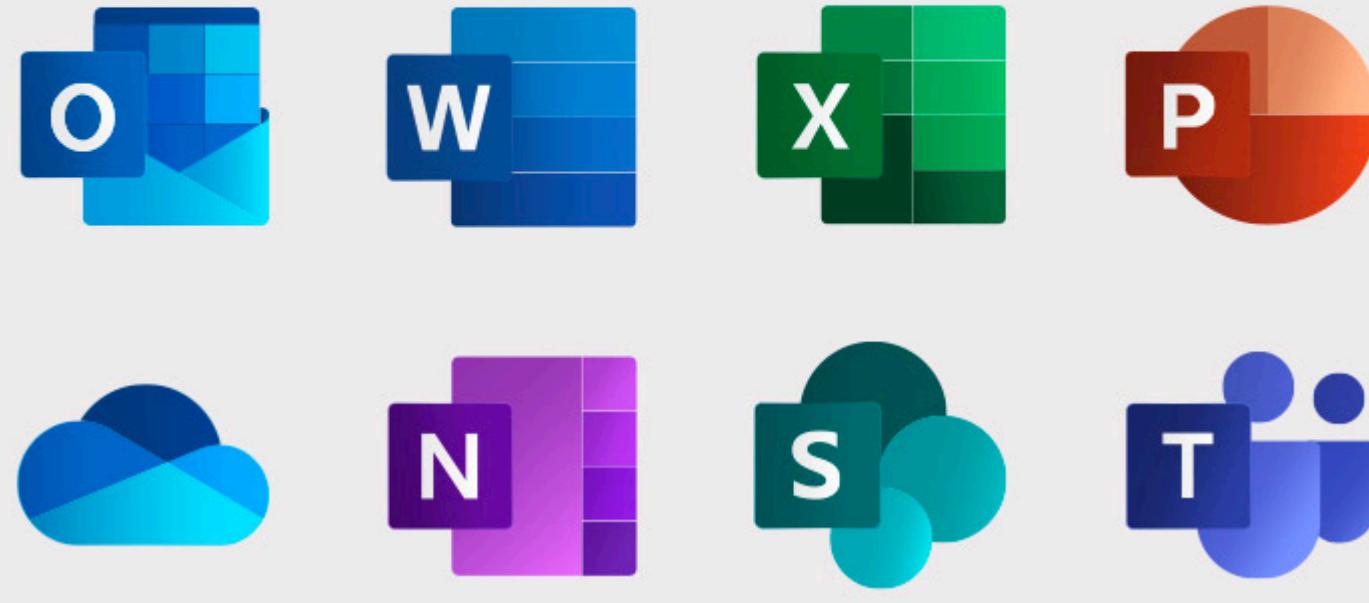
An example of PowerPoint with just one size font fits all - vs separate display and text versions to optimize the aesthetics of a PP presentation.



# Microsoft: BEYOND CALIBRI

Bierstadt  
Grandview  
Seaford  
Skeena  
Tenorite





## Size-specific fonts

- extended text vs headlines
- legibility vs quantity of information
- designed as families for continuity

# 48pt PowerPoint Bold Display

- ① 24pt Bullets using semibold
- ② Large sizes are more compact and impactful
- ③ Smaller sizes are spaced for greater legibility

## Effective PowerPoint Slides

- ① Legible sub-headings
- ② Simple but effective hierarchy

# 48pt PowerPoint Bold Display

- ① 24pt Bullets using semibold
- ② Large sizes are more compact and impactful
- ③ Smaller sizes are spaced for greater legibility

## Effective PowerPoint Slides

- ① Legible sub-headings
- ② Simple but effective hierarchy

I'll leave you with this quote from Jan Tschichold. It is profound in many ways since type design is an aggregate of many many detailed decisions which all effect the performance of the type - be it legibility or fashion.

Though we may be armed with the most advanced fonts, and authoring tools ever known it still feels like a constant battle to raise the bar of quality, beauty and function.

With the technology landscape continually changing there will always be problems for type designers and typographers to overcome – I've barely scratched the surface here and I've not even mentioned other writing systems other than Latin.

The next generation of type designers can look at Mr Bigelow's words in 1987 and rest assured that their work is far from being finished.

“Everything that  
counts in typography  
is a subtlety.”

—JAN TSCHICHOLD



mattesontypo@gmail.com  
mattesontypographics.com

 SteveMatteson1