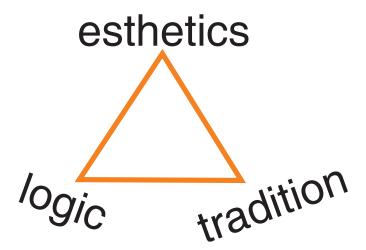
# BBN-ANG-183 Typography A brief history of lettering and typography

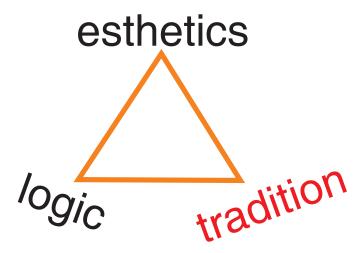
Zoltán G. Kiss & Péter Szigetvári

Dept of English Linguistics, Eötvös Loránd University

# the trinity of typography



# the trinity of typography



#### aims

#### why study type history?

- classification (font families)
- origins
- typographic roles
- practical type identification, selection and combination

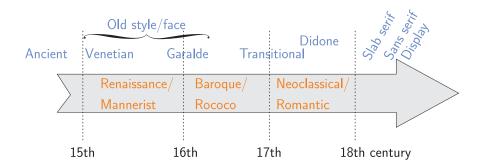
#### aims today...

- a (very brief) overview of European cultural/typographical/design history:
  - major historical punch cutters, printers and their typefaces, their modern digital revivals
  - type designers and their typefaces
  - examples of use of major typefaces

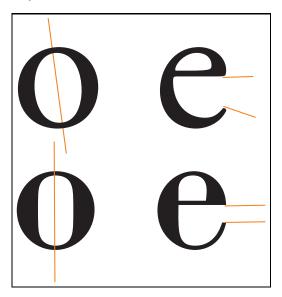
by the end...

typo course typo course typo course

#### **Timeline**



# stress/axis & aperture



#### other terms

#### lettering ('betűvetés')

painting, engraving, or printing

the process of putting letters on a surface by inscribing, writing,

branch of typography that deals with the description of letterforms

#### (digital) revival

the **redrawing/re-release** of classical letterforms or fonts in modern (digital) format

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#### other terms

#### punchcutter

designer/craftsman of the letterform on the metal printing block

### type foundry

a manufacture/company that designs, produces and sells typefaces

# ANCIENT WRITING SYSTEMS

#### definition

#### writing system

A codified system of standardized symbols, used repeatedly in a consistent manner to represent the same concept/sound over a period of time.

# development of writing systems 1

#### pictographs

simplified drawing of objects, persons, places (but not abstract ideas)





# development of writing systems 2

#### ideographs

- combination of pictographs to represent more complex concepts
- abstraction + one needs to know the code to know meaning



# development of writing systems 3

#### logograms/morphograms

- simplified, abstract symbols that represent words/morphemes

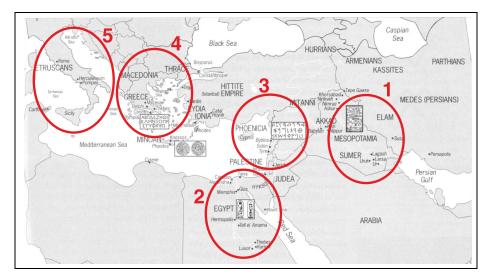
### syllabry

- simplified, abstract set of symbols that represents syllables

#### phonograms

- symbols that represent **phonemes** 

# ancient writing societies

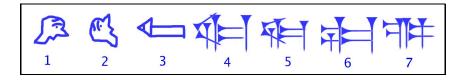


#### Sumerians, cuneiform

- ▶ 3500–3200 BC, Mesopotamia (Iraq) until 75 AD
- writing system: the cuneiform (a codified system of pictographs and ideographs; 'ékírás')
- clay writing tablets, wedge-shape stylus to inscribe (L. cuneus 'wedge')
- ► cuneiform > abstract logograms &/ phonograms for many languages

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# cuneiform development of 'head'



(3000 BC-75 AD)

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# Phoenicians and Semitic abjad

- ▶ 1500 BC, Phoenicia (Syria, Lebanon, Palestine, Israel)
- writing system: phonemic alphabet (22 characters) from an earlier
   Semitic prototype
- abjad: only consonant phonemes
- basis of the Greek and Roman alphabet > 'Western world'

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### Phoenicians and Semitic abjad

- spread to Greece around 800 BC > Etruscan alphabet > Roman alphabet
- excellent for Semitic languages (consonantal roots), less suitable for non-Semitic
- ▶ Semitic writing systems: Hebrew, Aramaic, Arabic, etc.

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# the Phoenician alphabet

Ħ	71	47	93	ΔΔ	۸۸	99	K¥
ḥēt	zayin	wāw	hē	dālet	gīmel	bēt	'ālef
þ,	Z	w	h -	d	g	b	
丰꾹	35	4748		46	444	ンそ	⊕ છ
sāmek	nun	mēm		lāmed	kaf	yōd	ţēt
s	n	m		l .	k	У	ţ
+×⊅	メケミ		11	ዋዋ	2	Uγ	υO
tāw	śin/šin		rēš	qōf	şādē	рē	'ayin
t	š		r	q	ş	р	c c

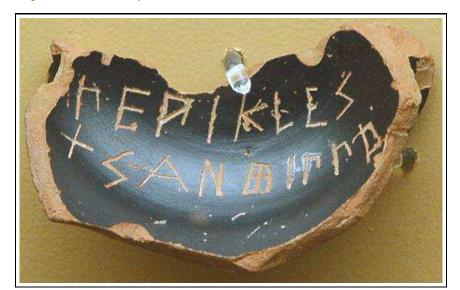
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#### **Ancient Greeks**

- adopted the Phoenician abjad writing system
- re-assigned those consonantal symbols that represented sounds that Greek didn't have: the emergence of **vowel-letters** (A, E, I, O, Y)
- only uppercase letters
- letterforms are thin/bony; made primarily from straight lines; apertures are very large; no serifs

gkz & szp (delg) 22 / 250

# Early Greek inscription



Early Name	Probable Meaning	Greek Name	<b>□</b> ▷ ♦ Φ ← Cretan pictographs	A Phoenician	Early Greek	Classical Greek	Latin	Modern English
Ãleph	Ox	Alpha	A	X,	A	Α	Α	A
Bēth	House	Bēta	۵	9	8	В	В	В
Gimel	Camel	Gamma	2	1	1	Γ	С	C
Dāleth	Folding door	Delta	Δ	٩	Δ	Δ	D	D
Hě	Lattice window	Epsilon		73	7	Ε	E F	E
Wāw	Hook, nail		6	Ч	7		F G	F G
Zayin	Weapon	Zeta	¥	I	I	Z	G	G
Hēth	Fence, Barrier	Ēta	Ħ	Ħ	B	Н	Н	Н
Tēth	A winding (?)	Thēta	⊗	8	8	θ		
Yőd	Hand	lōta	7	Z	>	1	1	I
Kaph Lämed Mēm	Bent Hand Ox-goad Water	Kappa Lambda Mu	٧ ٧ ٨	4 6 4	x 1 7	K M	K L M	J K L M
Nűn	Fish	Nu	>	7	7	N Z E	Ν	N
Sämek	Prop (?)	Xei	#	Ŧ				
'Ayin	Eye	Ou	<b>⊕</b>	0	0	0	0	0
Pē	Mouth	Pei	0	1	7	П	Р	P
Sādē	Fish-hook (?)		R	٣	M			
Kõph	Eye of Needle (	?) Koppa	٧	9	P		Q	Q
Rěsh	Head	Rho	9	4	4	P	R	R
Shin, sin	Tooth	Sigma, san	Ø	W	φ 4 5 X	Σ	R S T	S
Taw	Mark	Tau	+	×	X	Σ T Y	V	T U V
						X	X Y Z	W X Y Z

# Lithos Pro (Adobe, Carol Twombly, 1989/2000)

# ABCDEFGHIJKLMOPQRSTUVWXYZ ABCDEFGHIJKLMNOPQRSTUVW XYZ O123456789!?,:;.&()[]{}%€\$ ÁÉÓÚÖÜŰÁÉÓÚÖÜŰ

based on early Greek inscriptions; this flexible design combines simplified character shapes with a playful asymmetric quality that works well for a large variety of display jobs; the original Lithos design has been extremely popular since its 1989 release; to meet user demand, Lithos Pro (2000) adds true Greek language support, plus small caps and small figures

http://www.myfonts.com/fonts/adobe/lithos/



# Herculanum (Linotype, Adrian Frutiger, 1990/2002)

ABCDEFGHIJKLMOPQRSTUVWXYZ ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789!?,:;.&()[]{}%€\$ ÁÉÓÚÖÜ ÁÉÓÚÖÜ

named for Pompeii's sister city, Herculanum; designed by Adrian Frutiger in 1990 for Linotype's *Type before Gutenberg* series; based on first-century letterforms that were quickly written in clay using a stylus; recommended use: display http://www.myfonts.com/fonts/adobe/herculanum/



### Roman lettering

#### origins of uppercase letters: capitalis epigrafica monumentalis

- letterforms adopted from Classical Greek
- capital letter inscriptions (carvings) in commemorative columns, arches
- letterforms: made up of squares, triangles, and circles
- typical finishing serifs: the stone mason's finishing stroke by the chisel

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# the stone mason's chisel $/\mbox{tfizel}/$



# Roman lettering

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- letterforms: made up of squares, triangles, and circles
- typical finishing serifs: the stone mason's finishing stroke by the chisel or signwriter's flat brush, painted in red pigment (mostly lost)
- modest aperture, modulated strokes (thickness varies with the direction)
- narrow E, F, S, B, P; wide M, N, O, C; long-tailed Q, R

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# Trajan's column, Rome (c. 114 AD)



gkz & szp (delg) typo/history 30 / 250

# engraved Roman capitals (base of Trajan's column)

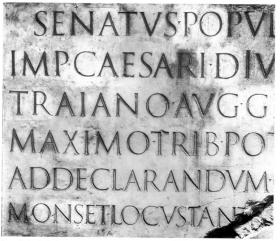


Fig. 13. Trajan Inscription, 114



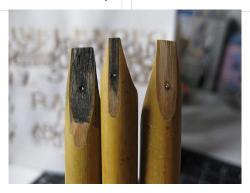
Plate II.—Alphabet from Trajan Inscription (circa 114 A.D.),
Scale approx. & linear. (See also Plate 1.) Note.—L and O are
shown sideways in the 2nd line.

# capitalis quadrata & capitalis rustica (c. 400 AD)

NIMARTISQ:DOLOSETD CHAODENSOSDIVVMN NEQUOCAPTAEDVMFV

IOCEANI SERETOSEE DEREEPVL DEMSIDUS TUGIENS V BLEISCIS ORT (IBERNAS CALLODISCEN

10



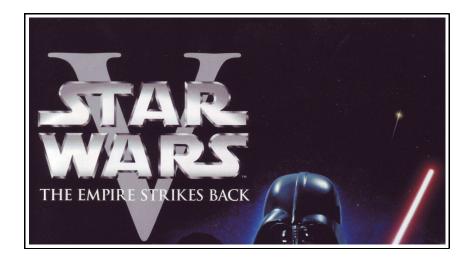
### ancient Roman letterform revival: Trajan Pro

# ABCDEFGHIJKLMOPQRSTUVWXYZ ABCDEFGHIJKLMNOPQRSTUV WXYZ 0123456789!?,:;.&()[]{}%€\$ ÁÉÓÚÖÜŰÁÉÓÚÖÜŰ

an "Adobe Originals" typeface designed by Carol Twombly in 1989; *Trajan* is an elegant typeface well-suited for **display** work in books, magazines, posters, and billboards http://www.myfonts.com/fonts/adobe/trajan/

gkz & szp (delg) typo/history 34 / 250

# capitalis epigrafica monumentalis: modern use



# lettering in the early Middle Ages

#### three important developments:

- Celtic culture
- ► Holy Roman Empire
- Gothic style

#### lettering in the early Middle Ages

#### uncial /énsijəl/

- ▶ 476 AD: fall of the Roman Empire; the emergence of the Roman Christian church
- Celtic christianity & manuscript/lettering design
- a more **rounded** form of the Roman alphabet: **uncials**
- letterforms: rounded, smaller, reduced/no serifs, subtle de-/ascenders

gkz & szp (delg) 37 / 250

#### lettering in the early Middle Ages

#### half uncial

- cca. 600: half-uncials: furthering the economization process
- even smaller letterforms, larger de-/ascenders: the precursor of true lowercase letters
- regional style variations ("hands"): Fr.: Merovingian; Anglo-Irish: Insular; Sp.: Visigothic; It.: Beneventian

gkz & szp (delg) typo/history 38 / 250

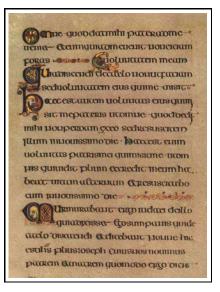
#### uncials and half-uncials (8th; 6th c.)

# INTERUOS CONQU DENSUNUS DETU AGISTERADTULI FI

4-2

deillodixicitic quemmicae pac musecfiliaicum dicialiaicum dicialiauc

# half uncial, insular hand (Book of Kells, Dublin, c. 800)



#### lettering in the early Middle Ages

#### Carolingian hand/script/minuscules /mínəskjuwl/

- ► Holy Roman Emperor Charlemagne /∫άːləmɛjn/ (742–814)
- ► Alcuin of York in Aachen: Carolingian/Caroline script: based on the half-uncial (Merovingian hand)
- rounded, slightly tapered characters, decent word and linespacing, good readability and legibility
- ▶ a uniform lowercase Roman alphabet
- uncial capitals introduce sentences

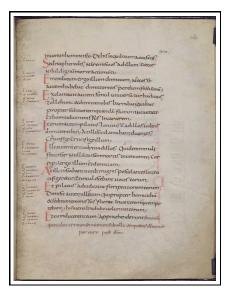
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#### Carolingian hand/script/minuscules

abcdefghi 1klmnopq rftuwx

gkz & szp (delg) typo/history 42 / 250

## Carolingian minuscule (gospel book, London, c. 10th c.)



#### lettering in the early Middle Ages

#### early gothic: 'blackletters', 1000-1400

- textura/textualis black letter: angular, condensed characters, heavy vertical strokes, lack of curves, precise design and careful spacing
- problems with readability and legibility (for contemporary eyes): small ascenders/descenders, tight word and interline spacing
- lacktriangle dot ("tittle") appears over 1 ightarrow i and J ightarrow j
- used mainly in religious ("authoritative") texts; popular in Germany until the 1900s

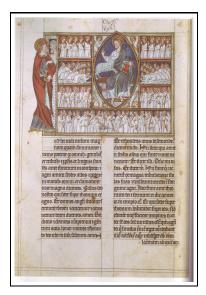
gkz & szp (delg) typo/history 44 / 250

gothic architecture & textura



abedefghijk lmnopgrils tuvwxy33 z

#### gothic textura, 1265



#### lettering in the early Middle Ages

#### late gothic, 1200-1400

- rotunda black letter, a more open and rounded form of Gothic script, inspired by the letters of the Carolingian era
- mainly secular manuscripts

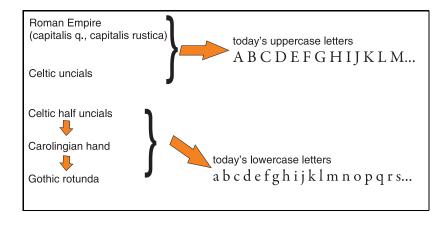
gkz & szp (delg) typo/history 47 / 250

## gothic blackletter types

	Textur	Rotunda	Schwa- bacher	Fraktur
a	a	a	a	$\mathfrak{a}$
d	þ	8	8	ð
g	$\mathfrak{g}$	$\mathfrak{g}$	$\mathfrak{g}$	$\mathfrak{g}$
n	$\mathfrak{n}$	n	n	n
0	u	0	0	ø
Α	A	A	$\mathfrak{A}$	$\mathfrak{A}$
В	K	B	$\mathfrak{Z}$	$\mathfrak{B}$
Н	Ą	115	ક	$\mathfrak{H}$
S	S	$\mathfrak{S}$	8	S H

48 / 250

## uppercase & lowercase: origins



gkz & szp (delg) typo/history 49 / 250

## Omnia (uncial; Linotype, Karlgeorg Hoefer, 1991/2002)

# abcdefghyklmopgrstuvwxyz abcdeeghijklonopgrstuvwxyz 0123456789!?.:.&()[]{}%€\$ **λέούου λέούου**

Omnia was designed in 1990 by calligrapher Karlgeorg Hoefer for Linotype as part of the Type Before Gutenberg series; based on the uncial hand; a good choice for diplomas or greeting cards, and its plain letter shapes combine well with a number of typefaces. especially sans serifs in the humanist category

http://www.myfonts.com/fonts/adobe/omnia/

gkz & szp (delg) 50 / 250

# Alcuin (Carolingian; URW, Gudrun Zapf-von Hesse, 1991)

# abcdefghijklmopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789!?,:;.&()[]{}%€\$ áéóúöüûÁÉÓÚÖÜÛ

http://www.myfonts.com/fonts/urw/alcuin/

gkz & szp (delg) typo/history 51 / 250

# Wilhelm Klingspor Gotisch (gothic textura; Linotype, Rudolf Koch, 1925/2002)

# abcdefghíklmopgrstuvvxyz 2121CDEFGFJFAL2HADPQ2FATHV2UX2JZ 0123456789!?,:;.&()[[{}%EG áéóúőű ÁLÉÓÁŐÁ

Wilhelm KI. Gotisch was designed in 1925 by Rudolf Koch for the Klingspor Foundry in Offenbach; Koch, who was chief designer at Klingspor, named the font in honor of the foundry's co-owner; Koch was a remarkable calligrapher, artist, and designer; this face, is probably the finest existing example of a textura typeface; both the caps and the lowercase are handsome, vigorous, and masterful, the spacing is almost as good as Gutenberg's; use this sparkling gothic gem in sizes 14 point or larger for Christmas greetings, certificates, wedding invitations, advertising, or music collateral pieces; http://www.linotype.com/1608/wilhelmklingsporgotisch-family.html

# San Marco (gothic rotunda; Linotype, Karlgeorg Hoefer, 1991/2002)

# abcdefghíjklmopqrstuvwfyz ABCDEFGHJRLMN©PQRSTUDWF YZ 0123456789!?,;;.&()[]{}%€\$ áéóúőű ÁÉÓÚŐŰ

San Marco was one of the featured fonts from the 1990 program Type before Gutenberg, which included the work of twelve contemporary type designers and represented styles from across the ages; the noted calligrapher and teacher, Karlgeorg Hoefer, designed it; for inspiration, he looked to the Italian rotunda style of blackletter writing; named for the San Marco cathedral in the center of Venice, and reflects its curvaceous arches and round-vaulted spaces; its highly stylized characters make the San Marco typeface a good choice for compelling and potent display typography; http://www.linotype.com/1439/sanmarco-family.html

gkz & szp (delg) typo/history 53 / 250

# Johannes Gutenberg & movable/reusable type

#### milestones

- ▶ late 1300s: technological advances
  - paper-making
  - printing press
  - movable/reusable type
  - cheap ink
- books started to be mass-produced, greater literacy, more efficient administration
- type (punch-cutting) and book design as an independent craft/art

## Johannes Gutenberg & movable/reusable type



# **Johannes Gutenberg** (c. 1398–1468) of Mainz

- credited with the development of movable type, the letterpress technique, the printing ink, and other printing crafts
- did not design new letterforms
- early printed books: based on Gothic rotunda blackletters

# Gutenberg's 42-line Bible (c. 1450)



## Gutenberg's Bible reprinted today



# RENAISSANCE (15th–16th centuries)

#### Renaissance lettering & typography

- growing demand and interest for books (religious but also secular): revival of ancient Greek/Roman art, philosophy, science
- mass-production of printed material is now a possibility
- ▶ new crafts: **printer** (printing shop) + **punch cutting** (type foundries)

#### Renaissance lettering & typography

- need for legible type and readable book design, plus the requirement of cost-saving & profit making
- Gutenberg's textura style remaind popular in Northern Europe and England until Shakespeare (cf. Caxton's "Old English/ Bastarda/Schwabacher")
- but elsewhere the humanist style ("white letter") gained much popularity quickly

#### Renaissance lettering & typography

#### humanist-Renaissance type style

- mostly inspired by: capitalis quadrata (uppercase) + the gothic rotunda
- ► first started out in humanist southern Europe (esp. Venice) then quickly spread to other areas (esp. France, Holland, England)
- ▶ common terms: humanist, Venetian, (Italian) Old Style/Face, antikva

#### main characteristics of Renaissance letterforms

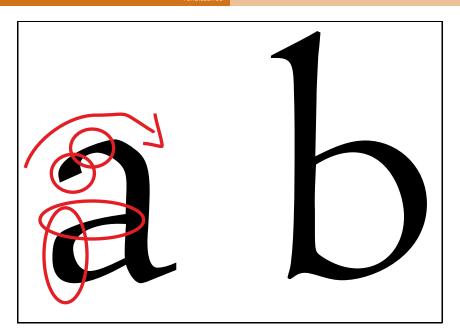


RENAISSANCE (15th & 16th centuries): modulated stroke; humanist [oblique] axis; crisp, pen-formed terminals; large *aperture*; italic equal to and independent of roman.

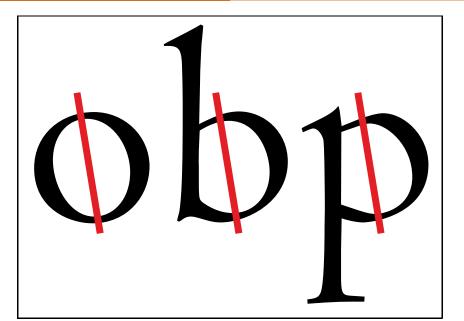
- modestly modulated stroke (thickness slightly varies with direction like a broadnib pen)
- consistent "humanist" stress/axis: the thick strokes run NW/SE
- modest/small x-height; capitals are smaller than ascenders
- crisp, oblique head serifs
- thick, bridge-like, bracketed (cup-shaped) foot serifs
- ▶ high, rising (non-horizontal) crossbar in e
- relatively large aperture
- numerals are "old style" ("ugráló számok")
- ▶ the roman font is solitary (there is no italic or bold)

# writing with a broadnib pen

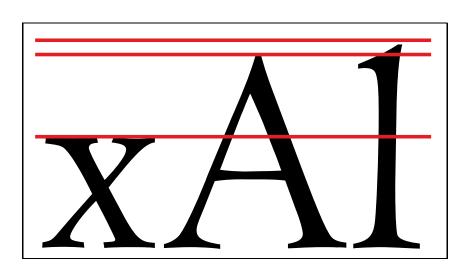




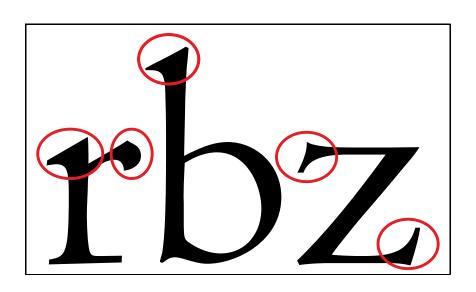
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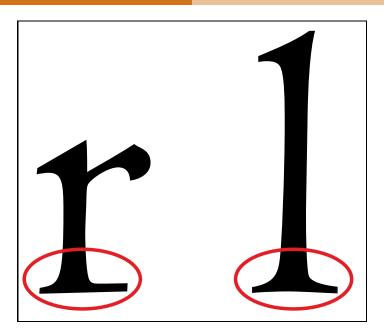
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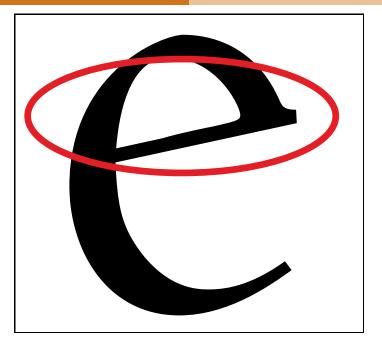
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### early Renaissance roman letterforms

### some characteristics

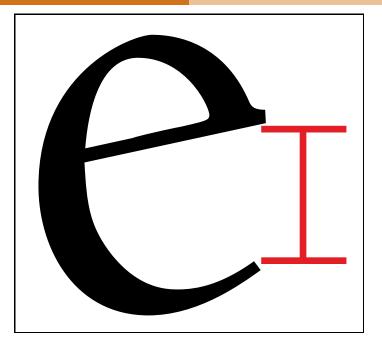
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0123456789

- ► Nicolas Jenson (Venice)
- Francesco Griffo (Venice)
- Claude Garamond (France)



### Nicolas Jenson (c. 1420-1480)

- French punchcutter and printer
- sent by Charles VII to Venice to learn the "new art"
- responsible for cutting the first outstanding version of the new humanist typeface (1470)
- his typefaces have long vanished; only his (copied) printed books remain
- notable work: Pliny's Historia naturalis (Natural History) (1476)

Plauti fabulæ funt indicio. Saguine canino contra toxica nihil præftantius puratur. Vomitiones quoch hoc animal mostrasse uidetur. Et alios usus exeo mire laudatos referemus suis locis. Nunc ad statutu ordinem pergemus. Aduersus serpentiu ictus efficacia habentur fimum pecudis recens in uino decoctum illitumqs. Mures diffects et impoliti quos natura non est spernenda præcipue in ascensu syderum ut diximus: cum lumine lunz fibrarum numero crescente atque decrescente. Tradut magi socinere muns dato porcis in fico fequi dantem id animal. In homine quoca fimiliter ualere. fed refolui cyatho olei poto. Mustelaru duo genera. Alteru siluestre. Distat magnitudine. Grzei uocant ictides. Haru fel cotra aspidas dicitur efficaxicatero uenenu. Hæcauté quæ in domibus nostris oberrat: er catulos suos (ut auctor est Cicero) quotidie träffert:mutatq; fedem ferpétes profequitur. Ex ea inueterata fale denarii pódus in cyathis tribus datur percuffis: aut uentriculus conandro fartus inueteratufq; et in uino potus. Et catulus mustela etta esticacius. Quadam pudenda dictu tata auctorum asseuratione commendanturiut praterire sas non sit. Siquidem illa concordia rerum aut repugnantia medicina gignuntur. Veluti cimicum animalis fetidislimiret dictu quocy fastidiédi natura contra serpentium morsus et pracipue aspidum ualere dicitur. Item contra uenena omnia. Argumento o dicut gallinas quo die id ederit no iterfici ab aspide. Carnes quo o earu percussis plunimu prodesse. Ex iis qua tradunt humanissimum illinire mortibus cum sanguine testudinis. Item suffitu eoru abigere fanguifugas adhærentes:hauftafq: ab animalibus reftinguere in potu datos. Quaq et oculos quidam iis inungunt tritis cum fale et lacte mulierum. Auresqueum melle et rosaceo ammixtis. Eos qui agrestes sint: et in malua nascantur crematos cinere p mixto rofaceo infundunt auribus. Catera qua de iis tradunt: uomica et quartanaru remedia: alioruq morboru quaq ouo aut cera aut faba inclusos censeant deuorados falla nec referenda arbitror. Lethargi tamen medicinæ cum argumento adhibenti quoniam uincatur afpidum fomnifica uis feptenos i cyatho aquædantes puerilibus annis quaternos. Et stranguriz fistulæq imposuere:adeo nihil illa rerum omnium parens (ine mgenabus caulis genuit. Quin et adalligatos leuo brachio binos lana fubrepra pattonbus refutere noctumis febribus producerunt diurmis in roleo panno. Rusfus is aduerfatur (colopendra futfituq; necat. Alpides percuffos torpore & fom no necant: omnium ferpentium minime fanabiles. Sed et uenenum earum fi faguis attingit: aut recens uulnus statim sterimit. Inueteratu ulcus tardius. De cetero potu quantaliber copia:non nocet. Non enim est tabifica uis:itaq; occisa morsu earum animalia cibis innoxia funt. Contarer in proferendo ex iis remedia:nifi.M.Varrone forem. lxxxiii. uitæ anno prodidisse aspidu ictus esficacistime curari hausta a poussis ipforum urina. Bafilifti: quem etiam ferpentes ipfi fugiunt alios olfactu necantem: qui hominem uel si aspiciat tantum dicitur interimere: sanguinem magi minis laudibus celebrant coeuntem picis modo et colore dilutum cinnabari clariorem fieri. Tri buunt ei et successus petitionum a potestatibus:& a diss etiam precum:morborum remedia beneficiorum munere. Quidă id Saturni sanguinem appellant. Draco no habet uenena. Caput eius limini ianuarum subditum propitiatis oratione diis fortunatam domum facere promittitur. Oculis etus sueteratis et cum melle tritis sunctos non pauescere ad nocturnas imagines etiam pauidos cordis. Pingue in pelle dorcadu neruis ceruinis adalligatum in lacerto conferre iudiciorum uictoriam. Primu spody-Ium aditus potestatum mulcere. Dentes eius illigatos pellibus caprearum ceruinis neruis:mites præstare dominos:potestates per eva præstare dominos:potestates præstare dominos:potestates per eva præstare præstar tio: qua inuictos faciunt magorum mendacia. Cauda draconis et capite uillis leonis e fronte et medulla eiusdem equi uictoris spuma canis unguibus adalligatis ceruino corio:neruifq; cerui alternatis et dorcadis. Quæ arguisse non minus refert: q contra ferpentes remedia demonstrasse:quoniam hac morborum beneficia sunt. Draconu

martin Ala plo toto capa per spensternis depen un scheme relation corpore in gi ulita femlagane: ang ita agaitani. Significandum i minicalpeni ola fextuna Sinsioleum perunguntura minister que mando apperatur exchi hauferit hipadilmailbgarus.Sed and Qua & molle et tem Denomrus que moltrat qu da rolmus epidanto roma condicional expresentar n colomum infurim gene caninate omene. Horus al Biogo mus Bellonum endomentum. Nam cum u producted hor in unguen Sulman & mel ac natral. F ma los course menenata fa is femerated into panter int skarlapan moquatur si Sames quanting parte cor schaples. Tamen talis et t witz dominante eadem illa com shis que unfrantus miss oneguatels forent u tend benchs interance of Spannabus. Exual combin quod minus unu to inte lors cor erus alin den bezonsk lattonum inalia appolenamenta fer

Sectionalistics. Contra crus

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and bardo fabelment arant

allast Resetts autem ad pe

### Jenson revivals

- ► **Centaur** (Bruce Rogers, Monotype, 1929/1991)
- Adobe Jenson (Robert Slimbach, Adobe, 1996)
- Legacy Roman (Ronald Arnholm, ITC, 1992)

gkz & szp (delg) typo/history 83 / 250

### Centaur Roman (Monotype, Bruce Rogers, 1929/1991)

abcdefghijklmopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789!?,:;.&()[]{}%•\$
áéóúöü•ÁÉÓÚÖÜ•
0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ

Centaur is based on the roman face of N. Jenson in 1469. Unfortunately, the digital version does not do justice to the original Jenson roman or the metal version (1929), it suffers from the perfection of the process of digital design and offset printing: the original shape is printed coldly intact, and so it is very difficult to set a well-made page in Centaur. (www.myfonts.com/fonts/adobe/centaur/)



gkz & szp (delg) typo/history 84 / 250

### Adobe Jenson (Adobe, Robert Slimbach, 1996)

abcdefghijklmopgrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789!?,:;.--&()[]{}%€\$ áéóúöüűÁÉÓÚÖÜŰ abcdefghijklmopgrstuvwxyz *ABCDEFGHIJKLMNOPQRSTUVWXYZ* 0123456789!?,;;.-&()[]{}%€\$ áéóúöüű Á ÉÓÚÖÜŰ



### Francesco Griffo (1450-1518)

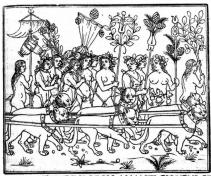
- Bolognese punchcutter, working in Venice, Bologna and elsewhere in Italy
- author of at least seven romans, three italics, Greek and Hebrew typefaces
- commissioned by Aldus Manutius to cut the roman for Pietro Bembo's De Aetna (1495), and "condensed scripts" for pocket-books (Virgil's Opera, 1501 – "Aldine Italic") — see lecture on font styles
- his punches vanished; his letterforms have been reconstructed from printed books

gkz & szp (delg) typo/history 86 / 250

# Griffo's "Poliphilus" roman (*Hypnerotomachia Poliphili*, 1499):

gkz & szp (delg) typo/history 87 / 250

### QV ARTVS



LA MVLTITVDINE DEGLI AMANTI GIOVENI, ET DILLE DIVE AMOR OSE PVELLE LA NYMPHA APOLI PHILO FACVNDAMENTE DECHIARA, CHIFVRONO ET COME'DAGLI DII AMATE, ET GLI CHORI DE GLI DIVI VATI CANTANTI VIDE.



LCVNOMAIDITANTOINDEFESSOELO quio aptamente le accommodarebbe, che gli diumi ar chani difertando copio lo & ptenamente potefle etade re & ufcire-Et expressamente narrare, & cum quanto di ua pompa, indefinenti Triumphi, perenne gloria, sesti ua la tetitia, & feslicettripudio, circa a queste quatro iussi.

tate seiuge de memorando spectamine cum paro le sufficientemente exprimere ualesse. Oltragli inclyti adolescentuli & stipante agmine di inumere & periucunde Nymphe, piu che la tenerecia degli anni sui elle prudente & graue & asturule cum gli acceptissimi amanti de pubescente & depile gene. Ad alcuni la primula lanugine splendese tele male inferpiua delitiose alacremente sessigiauano. Moste hauendo le facole sue accense & ardente. Alcune uidi Pastophore. Altre cum drite haste adornate de prischessosie. Ettali di uarii Trophast optimamete ordinate

### one of Manutius's/Griffo's pocket books in Aldine italic:

gkz & szp (delg) typo/history 89 / 250

### P.O.N.IN PRIMVM GEORGICORVM, ARGVMENTVM.

Quid faciat lætas fegetes, quæ fydera feruet A gricola, ut facilem terram profeindat aratris. S emma quo iacienda modo, cultus q; locorum E docuit, messes magno olim fonore reddi.

### P.V.M.GEORGICORVM LIBER PRI MVS AD MOECENATEM.

Vid faciat lætas fegetes, quo sydere terram. V ertere Macanas ulmisqi adiun gereuites,

Conucniat, que cura boum quis oultus habendo

S it perori, atq; apibus quanta experientia parcis, Vosoclari∬imamundi Hincanere incipiam. Lumina labentem colo que ducitis annum Liber, et alma Ceres, uestro si munere tellus Chaoniam pingui glandem mutauit arista. P oculaq; incentis Acheloia mescuit nuis, E tuos agrestum prasentia numina Fauni, F erte simul, Faunig; pedem, Dryade; q: puelle. Muneraue stracano, tuq; o cui prima frementem F udit equum magno tellus percussa tridenti N eptune, et cultor nemorum, cui pinquia Caæ I creentum niuei tondent dumetai unenci. I pse nemus liquens patrium, saltusq; Licæi

### Griffo revivals

- ► Monotype Bembo (Stanley Morrison, 1929/2003)
- ▶ Monotype Poliphilus (F. H. Pierpoint, 1923/1991)
- ▶ Dante Italic (Monotype, Giovanni (Hans) Mardersteig, Ron Carpenter, 1957/1993)

gkz & szp (delg) typo/history 91 / 250

Monotype Bembo: the digital revival of Manutius/Griffo's typeface

### abcdefghijklmnopqrstvwxyz 123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZ

The italic is based on a Chancery type of Giovantonio Tagliente

abcdefghijklmnopqrstvwxyz 123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZ

Monotype's Dante Italic is said to be the closest to Manutius/Griffo's Aldine italic

abcdefghijklmnopqrstuvwxyz 123456789

gkz & szp (delg) typo/history 92 / 250



## **Claude Garamond** (c. 1490–1561)

- French punchcutter (the first working full-time in this craft)
- author of many roman fonts, at least two italics, and a full set of chancery Greek
- first to put careful emphasis on lowercase letters, refined
   Jenson's and Griffo's work
- first to design accompanying full-set italic

### Garamond's roman and italic (c. 1530; 1550):

gkz & szp (delg) typo/history 94 / 250

### ABCDEFGHIKL MNOPQ RSTV XYZabcdefghil mnopqrsftuvxyz 1234567890,.'!?;:-9~ Exaffificallifle &ãáààçēéèêëçīíììïľ

Iuris præcepta sunt hæc, Honesté viuere, alterum non lædere, suum cuiq; tribuere. Huius studij duæ sunt positiones, Publicum & priuatum. Publicum ius est, quod ad statum rei Romanæ spectat. Priua tum, quod ad singulorum vtilitatem pertinet. Dicendum est igitur de iure priuato, quòd tripertitum est: collectum est enim ex naturalibus præceptis, aut getium aut ciuilibus. Ius naturale est quòd

A 42 pt roman titling font (cut a. 1530, revised a. 1550) and a 16 pt italic text font (a. 1539). Both were cut by Claude Garamond, Paris. The italic is shown actual size and the roman reduced by about one fifth. Matrices for the roman font survive at the Plantin-Moretus Museum, Antwerp.

### Garamond revivals

- almost all foundries have had a "Garamond" revival (metal and/or digital)
- beware: some fonts named "Garamond" have nothing to do with Garamond's original designs! (but rather with those of Jean Jannon, Baroque style)
- ▶ **Stempel Garamond,** (1924/1993), the only version in which both roman and italic are based on a genuine Garamond
- **▶ Granjon** (Linotype, 1928/1990)
- ► Adobe Garamond, designed by Robert Slimbach (1989/2000/2006)
- ► **Sabon** by Jan Tschichold (Linotype/Monotype, 1964/2000/2004)

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### Garamond revivals

18 pt Stempel Garamond

18 pt Linotype Granjon

> 18 pt Adobe Garamond

abcëfghijõp 123 AQ *abcéfghijõp* abcëfghijõp 123 AQ *abcéfghijõp* abcëfghijõp 123 AQ *abcéfghijõp* 

### design tips

### Renaissance font usage

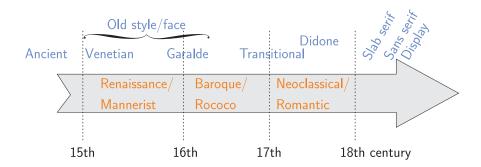
- excellent for main text in longer publications (especially Sabon and Adobe Garamond)
- ▶ small x-height: only little leading is required (20% of body size)
- all cap displays create elegant style
- not suitable for on-screen display, or only above 18 points
- ▶ genre: mostly humanities, especially literature, poetry

gkz & szp (delg) typo/history 98 / 250

### recap: what we did so far

- ▶ milestones: lettering & typography through art historical eras
- development of the Roman alphabet
- the birth of book printing, typography, typographers
- famous typefaces, famous printers/punch cutters
- general description of specific letterforms
- tips for usage (typeface selection w.r.t genre of text)
- early "Old Style" = Renaissance
- Jenson, Griffo, Garamond

### **Timeline**



# BAROQUE, ROCOCO (17th century)

### Baroque/Rococo letterforms

- ▶ Baroque typography is like Baroque painting and music: rich in activity, restless and dramatic play of contradictory forms
- upright letterforms appear less written than in the Renaissance
- ▶ alternative term: late old style

### main characteristics of Baroque letterforms



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.

### Baroque/Rococo letterforms

### characteristics

- axis varies widely
- ▶ slope of italic: 15°-20°, varies considerably
- contrast increased
- x-height increased
- aperture generally reduced
- terminals: teardrop-like
- roman and matching italic on the same line
- lots of floral ornaments and other marginal decorations

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- ▶ lots of floral **ornaments** and other **marginal decorations**

### Baroque punchcutters and printers

### Robert Granjon (c. 1513-1590)

- French typecutter, former apprentice of Claude Garamond
- cut many outstanding italic and script faces; musical note shapes
- outstanding typeface: Civilité, with linked lowercase letters
- most important revivals: Galliard ('lively dance'; Matthew Carter, 1992); Poetica (Robert Slimbach, 1992)

gkz & szp (delg) typo/history 117 / 250

### one of Grajon's italic/script faces



Mnes ferme gentes atate no fira, Princeps Illuftrißime, Deum Venerantur: sed tamen nulli quod optimum sa Etu est, id optima ratione esficiunt, nisi soli sapientes. Quidam enim Deum ob id

adorant, quòd eum colendo multa sperant bona, spernando bona magna mala timent: itaque non hic amor est, non Veneratio, sed potius spes, aut metus. Et quanquam hic metus aut spes non srustrà essent (quæ certe inania sunt, si ad mortaliŭ euentus, non ad animæ præmia reserantur) nihilominus optimi facti caussa no optima essent vica auté (vt opinor) hæc non solum recta no est, sed etiam Vana in illis cultus diuini ratio. Sunt alii, qui ex consuttudine propria, aut aliorum, Deum venerantur: atque vt hi prorsus nulla laude degni sunt, ita illi qui ob legum metus.

# Galliard roman (ITC/Carter & Cone, M. Carter, 1992)

aeilmorst

# Galliard italic (ITC/Carter & Cone, Matthew Carter, 1992)

*ABCDEFGHI* 567890abcdefghijk [aeilmorst]

### Poetica & Galliard

# equbdaffglopsbz abefopabefop

Two recent typefaces in the Mannerist tradition. Poetica (above) is a chancery italic based on sixteenth-century models. It was designed by Robert Slimbach and issued by Adobe in 1992. Galliard (below), designed by Matthew Carter, was issued by Linotype in 1978. It is based on letterforms cut in the sixteenth century by Robert Granjon.

### Baroque/Rococo punchcutters and printers

### Jean Jannon (1580-1658)

- ► French punchcutter and printer
- they are elegant but disorderly
- much of his material survives in Paris
- ▶ revivals: Monotype 'Garamond' (1922/1992); LTC Garamont (Frederick Goudy, 1921; Jim Rimmer, 2001); Simoncini 'Garamond' (Francesco Simoncini, 1958)

gkz & szp (delg) typo/history 122 / 250

### Jean Jannon's original roman and italic

ABCDEFGHIJKLMN OPQRSTUVWXY&Z

abcdefghijklmnopqrstuvwxyz

1234567890

ABCDEFGHIJKLMNOPQRSTUVWXY&Z

> abidefqhijklmnopqrstuvwxyz 1234567890

gkz & szp (delg) 123 / 250

### Monotype Garamond (Monotype, 1922/1992)

# abcdefghijklmnopqrstuwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ 0123456789 ?!.:—

abcdefghijklmnopqrstuwxyz ABCDEFGHIJKLMNOPQRSTUWXYZ 01234567890123456789?!.; hogy, Eszterházy, francia

gkz & szp (delg) typo/history 124 / 250

### Baroque/Rococo punchcutters and printers

### Miklós Misztótfalusi Kis (1650–1702)

- Hungarian scholar, printer, typecutter
- trained and worked in Amsterdam and Kolozsvár
- ► for hundreds of years, his work was **incorrectly ascribed** to the Dutch punchcutter Anton Janson
- ▶ revivals: Stempel 'Janson' (1926); Linotype 'Janson' Text (Hermann Zapf, Addrian Frutiger, 1954/1985); Monotype 'Janson' (1937/1992); Ehrhardt (Monotype 1937/2001); Kis (Bitstream, 2000); Tyrnavia (Gábor Kóthay, T.26, 2000)
- Hungarian revival project: Gidata (www.font.hu)

# Ó-Testamentum, M. Kis, 1684:

gkz & szp (delg) typo/history 126 / 250

### ELSÖ R E S Z.

E' Világnak, hat napok on lett teremtetése.



EZDETBEN te. remté ‡ Isten a' men. nyet és a' földet.

z A' föld pedig va-🕽 la ékesfég nélkül 🗸 való és pulita, és setétség 🐿 vala a' mélységnek

Einén, és az Urnak Leike táplálja vala a' wizeker. 3 Akkor monda az Isten: Legyen vi-

lágoffág: és lön világoffág. 4 Es látá Isten hogy jó volna a' vilá-

goffág, és elválaztá a' világoffágot a' fetétfégtől.

5 Es nevezé a' világosságot napnak, és a' fetétféget éjtEakának : és lön az eftve és a' reggel, elsö nan.

6 ¶ Az után monda az Isten : † Légyen kiterjeztetett eröffeg a' viz között, melly elválaztza a' vizeket, a' vizektől.

7. Es Berze az Isten kiterjekteten eröffeget, melly elválagtaná \* a' kiteriegtetett eröffeg alatt valo vizeket a' kiterjegtetetteroffee felett való vizektől:és úgylön.

8 Es a' kiterjefztetett eröffeget az Iften nevezé égnek: és lon az estve és a' reggel, máfod nap.

9 ¶ Az után monda az Illen: \* Gyülienek egybe az ég alatt való vizek egy helyre, hogy teffék-meg a' záraz, és úgy lön.

10 A' barazt pedig nevezé Isten földnek : a' vizeknek fokafágát, tengernek :

és látá Isten, hogy ez jó vólna.

11 Monda annakfelette az Isten : Hoze zon a' föld gyenge füveket, mag-hozó füveket, gyümölts-fakat : mellyek, az ö nemek gerint való gyümöltsöket hozzanak , mellyekben légyen az ö magyok e' földön: és úgy lön.

12Hoza annakokáért a' föld gyengefűveket, mag-hozó füveket az ö nemek ge. rint, és gyümölts-termő fákat, mellyekben. vala az ö nemek gerint való magvok: és látá líten, hogy az jó vólna.

13. Es lon az estve és a' reggel, harmadik nap.

14 ¶ Az után monda az Isten : " Legye. nek világosító állatok az égnek knerjeg. tésen, hogy külömbséget tegyenek a' nap között és az éjtzaka között : és legyenek jelci bizonyos idöknek, napoknak, és eztendöknek.

15 Legyenek, mondok, világosító állatok az égnek kiterjegtésén, hogy világosíttsák a' földet : és úgy lon.

16 Szerze azért az Isten két nagy viki. gosító állatokat : a' nagyobbik világosító allatot, hogy világosítana nappal : a' kiffebbik világosító állatot, hogy éjtzaka világosítana : és tíllagokat-is.

17 Es helyhezteté az Isten azokat az égnek kiterjegtésén, hogy a' földet meg-

világosítanák.

18 Es hogy vezéri lennének a' napnak és az éjtkakának, és külömbséget tenné. nek a' vilagoffág és fetétfég közön: és látá líten, hogy az jó vólna.

19. Es

### Kis-revivial: Tyrnavia roman

AaBbCcDdEeFfGgHhIiJjKkLlMm NnOoPpQqRrSsTtUuVvWwXxYyZz 1234567890!?#%&\$£€¥@()[]{}/\<> «ÆæÇçÉéÎîÑñØøŒœÜü¶§•©®†‡»

(http://www.t26.com/fonts/Tyrnavia)

### Kis-revivial: Monotype Janson (Monotype, 1937/1992)

abcdefghijklmnopqrstuwxyz fi fl ABCDEFGHIJKLMNOPQRSTUWXYZ 01234567890123456789?!.;— ABCDEFGHIJKLMNOPQRST

abcdefghijklmnopqrstuwxyz fi fl ABCDEFGHIJKLMNOPQRSTUWXYZ 01234567890123456789 ?!.;--hogy, Eszterházy, francia

# street plaquette of Kis in Amsterdam (Spuistraat)



### Baroque/Rococo punchcutters and printers



### William Caslon (1692–1766)

- English engraver, punchcutter, typefounder
- author of many Baroque romans, italics, Greeks and other non-Latin faces
- popular in British Empire & America; "last of the old styles"
- major works: Newton's Philosophiæ naturalis principia mathematica (1687), Decl. of Independence (1776)
- revivals: most recent: **Adobe Caslon** (C. Twombly, 2000)

# Caslon's "broadside" specimen (1734):

gkz & szp (delg) typo/history 132 / 250

A SPECIMEN By W. CASLON, Letter-Founder, in Ironmonger-Row, Old-Street, LONDON.

> Quousque tandem abutere, Cati- Quousque tandem abutere, Catililina, patientia nostra? quamdiu na, patientia nostra? quamdiu

> quem ad finem sese effrenata jacABCDEFGHJIKLMNOP ABCDEFGHJIKLMNO

Opolique tradem abuters, Catillina, pa- «Quoque tradem abuters, Catillina, pa- «Quoque tradema abuters, Catillina, pa- «Quoque tradema abuters, Catillina, pa- transia suffera P quamdiu nos etiam fu- trienta suffera P quamdiu nos etiam fu- trevi ile trusu eloder? quem ad fineme [-rr i jelt suci educat? quem ad fineme [-rr i jelt suci educat? quem ad pleme [jelt] fee fefferanta jelfabiti audatica? nihilina tet efferanta jelfabiti audatica? nihilina tet efferanta jelfabiti audatica? nihilina tet efferanta jelfabiti audatica? nocturnum præfidium palatii, nihl urnocturnum præfidium palatii, nihl urbis vigilia, nihl timor populi, nihl conABCDEFGHIJKLMNOPQRS ABCDEFGHIJKLMNOPQR

Excitit ROMAT.

Quedon under short, Collins, pairents

Qu

DOUBLE PICA ROMAN.

GREAT PRIMER ROMAN.

Catilina, pati
Suguelda tandem

Suguel

patientia nostra anticologica del control de la control de

Double Pica Italick.

nos etiam furor ilte tuus eludet? nos etiam furor iste tuus eludet? 23000 e 1003 tuus eludet?

ABCDEFGHIJKL

ABCDEFGHIKLMN

Ouousque tandem abutere.

abutere, Catilina,

Ououfque tandem abutere, Catilina, E

patientia nostra?

quamdiu nos etiam Quousque tandem a-

butere, Catilina, patientia nostra? quamdiu nos etiam furor Quoufque tandem abutere, Catilina, patientia nostra? quamdiu nos etiam furor ifte tuus elu-Quousque tandem abutere. Catilina, patientia nostra?

quamdiu nos etiam furor

DER CHAPPER LOT CAALO STOR HEAR DE-TON METER ME OF THE STATE OF CHANGE

ALTOOR OFFICER REQUES ONER MOVE OFFI

- Program regre Program as Tribert

ال ساوب الله 2000 كم مسار بحراط معرفي مسيريا مكال من مدهما إمسار معرفي مسيريا مكال من مدهما إمسار

A Pin Sameina RATEL'S ATAN DEM MITTE SECTION TANA TONE AND SECTION OF SECTION لا بني ك اللَّا تَمْرَ فِينِ وَ لا تَسْدُنكُ سِيرًا ، ولا طَيْرًا كُرُّ سَا

ـ السَّمَّةُ مِن قول ، وما ـ الزين من تسلا ، ولا ما ـ ظـــة من المت الازان ، لا تنجد لهنَّ ، ولا تعبدهيُّ ، عَلَى اللَّهِ الله الله الله الله الله الله ترب هوشت هديشت دغية تالايل ميرين كا ناميد فرياني در هر موردي نميد موريت شهيد التساس تلايان بري اديد نبيد مورد نبيت مورد النب هيت فريمين فريد فريد مورد مورد به نبيت

וציו נחשר : בערא אלובים לאור יופקוושר פרא כלה

מער שלוים בין השר ובין החשון ויקרא שלוים בין השר ובין החשון בין ה

## page from a specimen book of Caslon & Sons (1763):

gkz & szp (delg) typo/history 134 / 250

# ABCDEFGHIKLMN OPORSTUVWXYZ

Quousque tandem abutere Catilina, patientia nostra? qu Quousque tandem abutere, Catilina, patientia nostra? quam



MANAMANANANA

This new Foundery was begun in the Year 1720. and finish'd 1763; and will (with God's leave) be carried on, improved, and inlarged, by WILLIAM CASLON and Son, Letter-Founders in LONDON.

DOX KEOX KEOX KEOX KEO

the first printing of the Dol with Caslon type (John Dunlap, Philadelphia, 1776):

gkz & szp (delg) typo/history 136 / 250

### IN CONGRESS, July 4, 1776.

## DECLARATION

BY THE REPRESENTATIVES OF THE

### UNITED STATES OF AMERICA.

IN GENERAL CONGRESS ASSEMBLED.

IN GENERAL COUNGRESS ASSEMBLED.

II Style hat Coungly Jennes Burns; however, the country of the policy of the country of the c

The designation of the designati

He has confined our fellow Citizens takes Copies on the high beas to her Arina against their Country, to become the Exercitions of that Primate II is has certain described informations among it as, and has noteward to bring on the Inhabitants of our Primate, the securities Response II is has certain described informations among it as, and has not considered to the primate Control Workship in the Control Workshi

Signed by ORDER and in BEHALT of the CONGRESS.

JOHN HANCOCK, PRESIDENT.

ATTEST. CHARLES THOMSON, SECRETARY.

PRICADELPRIA: PRINTED IST JOHN DERLAN

# Adobe Caslon (Adobe, Carol Twombly 1989/2000)

abcdefghijklmopgrstuvwxyz ABCDEFGHIIKLMNOPORSTUVWXYZ 0123456789012345789!?,:;.--&()[]{}%€\$ ABCDEFGHIJKLMNOPQRSÁÉÓÚÖÜ•ÁÉÓÚÖÜ• abcdefghijklmopgrstuvwxyz *ABCDEFGHIJKLMNOPQRSTUVWXYZ* 0123456789!?,:;.-**-**&()∏{}%€\$ áéóúöü• ÁÉÓÚÖÜ• fffiflffifflfstetfhfikflfftvwABCDEFGHI7KLM NOP2RSTUUWXYZ® TEGET SENTER CDFFF-WARDENERS

### Baroque/Rococo

### design tips

- excellent for main text in longer publications (esp. Monotype 'Garamond', Caslon and 'Janson')
- ▶ good-sized x-height: extra leading is required (20–30% of body size)
- all cap displays create elegant style
- not suitable for on-screen display (large contrast), or only above 18 points
- ▶ genre: mostly humanities, especially art, literature, social sciences

gkz & szp (delg) typo/history 139 / 250

# NEOCLASSICISM (18th century)

### neoclassicism

- consistency: more static, restrained, "mathematical" than Renaissance or Baroque
- first: designed by a French government committee (1690), romain du roi 'Kings Roman'
- popular in France, England and Spain; beloved in America ("federal style"; Benjamin Franklin)
- alternative term: transitional style

### main characteristics of Neoclassical letterforms



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

### neoclassical letterforms

### characteristics

- more strongly modulated stroke, more contrast
- predominantly vertical ("rationalist") axis in both roman and italic
- ▶ slope of italic generally uniform, averaging 14° to 16°
- serifs generally adnate (finely bracketed), but flatter, more level (than Baroque or Ren.)
- teardrop terminals
- characters are rather wide and higher x-height
- moderate aperture
- ▶ italic follows the style of roman very closely
- much less additional ornaments, mostly: simple lines and/or frames
- occupies a transitional place between old style/face and Romantic ("modern")

modulation

### neoclassical letterforms

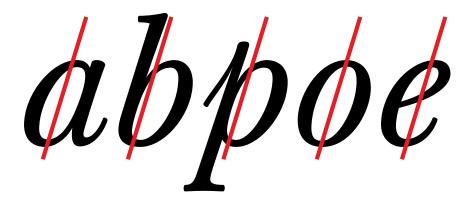
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axis

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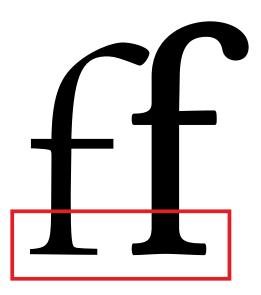
slope



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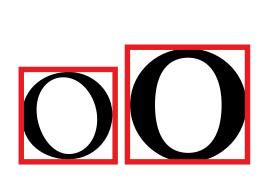
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### width & x-height

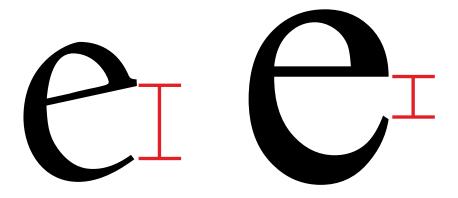




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### aperture



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### Neoclassical punchcutters and printers



### **John Baskerville**/'bæskəvıl/ (1706–1775)

- English calligrapher, printer and businessman
- designer (rather than cutter!) of a series of Neoclassical romans, italics
- more popular in Republican France and the American colonies (thanks to Benjamin Franklin)
- his letters correspond very closely to the "federal" style in American architecture (Capitol Building, the White House)
- best revival: Monotype Baskerville (1923/1994)

### Baskerville: idiosyncracies



### Baskerville's printing of Paradise regained, 1758

PARADISE REGAIN'D. IN FOUR BOOKS. To which is added SAMSON AGONISTES: AND POEMS UPON SEVERAL OCCASIONS. THE AUTHOR 70 HN MILTON. From the Text of THOMAS NEWTON, D. D. BIRMINGHAM: Printed by JOHN BASKERVILLE For J. and R. TONSON in LONDON.

## Baskerville's printing of *The Psalter/Book of Common Prayer*, Cambridge University, 1760:

gkz & szp (delg) typo/history 161 / 250

THE

### PSALTER,

### PSALMS of DAVID,

Pointed as they are to be fung or faid in Churches.

### THE FIRST DAY.

### MORNING PRAYER.

PSAL. I. Beatus vir, qui non abiit.

BLESSED is the man that hath not walked in the counsel of the ungodly, nor stood in the way of sinners: and hath not sat in the seat of the scornful;

2 But his delight is in the law of the Lord: and in his law will he exercise himself day and night.

3 And he shall be like a tree planted by the water-side: that will bring forth his fruit in due season.

4 His leaf also shall not wither: and look, whatsoever he doeth, it shall prosper.

5 As for the ungodly, it is not fo with them: but they are like the chaff which the wind feattereth away from the face of the earth.

6 Therefore the ungodly shall not be able to stand in the judgment: neither the sinners in the congregation of the rightcous.

7 But

2 / 250

tips

### neoclassical typefaces

### design tips

- excellent for main text in longer publications (esp. Baskerville) as well as publicity material
- well-proportioned x-height: only little extra leading required (20% of body size)
- prints best on smooth paper
- all cap displays create warm elegant style
- not suitable for on-screen display (large contrast), or only above 18 points
- genre: both humanities and science

gkz & szp (delg) typo/history 163 / 250

# ROMANTICISM (19th century)

### main characteristics of Romantic/"modern" letterforms



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.

### Romantic letterforms (1800–1900)

- hypermodulation: abrupt modulation of the stroke, exaggerated contrast
- hardening of terminals from teardrop-like to round
- serifs thinner and more abrupt (no brackets)
- aperture reduced
- main stress is typically vertical, even for the italic
- often referred to as "modern" style (although feels like very classical/old-fashioned today)

### hypermodulation

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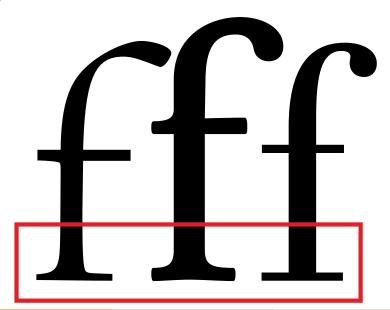
### terminals



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### serifs



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### aperture



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stress

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### mmm un-comment for full version

gkz & szp (delg) typo/history 177 / 250

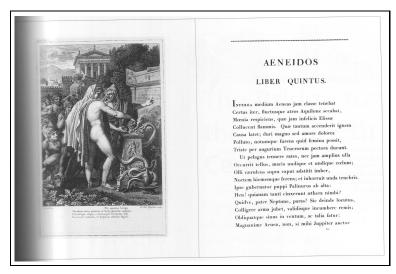
### Romantic punchcutters and printers

### the Didots

- ► François-Ambroise (1730–1804): Parisian printer and publisher
- devised the Didot/"European" point system of typography
- sons: Pierre (1760–1853) and Firmin (1764–1836)
- Pierre took over the running of the printing business
- Firmin was mainly working as a punchcutter, he was the designer of the first "modern" types
- notable revival: Linotype Didot (Adrien Frutiger, 1992)

gkz & szp (delg) 177 / 250

### P. Didot's printing of Vergil's *Bucolica, Georgica, et Aeneis*, 1798



### Linotype Didot (Linotype, Adrien Frutiger, 1992)

abcdefghijklmopgrstuvwxyz **ABCDEFGHIJKLMNOPQRSTUVWXYZ**  $0123456789!?, :; .-&()[]{\%}$ áéóúöüÁÉÓÚÖÜ abcdefghijklmopqrstuvwxyz *ABCDEFGHIJKLMNOPQRSTUVWXYZ* 0123456789!?,:;.--&()/]{}%\$ áéóúöüÁÉÓÚÖÜ

# Romantic punchcutters and printers



# **Giambattista Bodoni** (1740–1813)

- Italian punchcutter, printer and prolific designer of type, working in Rome and Parma
- best know for his dark and razor-sharp Romantic romans, italics; also designed
   Neoclassical fonts
- considered to be the typographic counterpart of Byron and Liszt
- his punches are preserved in the Museo Bodoniano, Parma

# Romantic punchcutters and printers



# **Giambattista Bodoni** (1740–1813)

- notable revivals: the ITC
   Bodoni family (Sumner Stone, 1994/95); Monotype Bodoni
   & Monotype Modern 7
- scientific publications, textbooks for schools
- ▶ default font in TEX/LATEX system: Computer Modern

# Bodoni's Manual of typography (1818)



# Monotype Bodoni (metal version)

**ABCDEFG** HIJKLMN OPORSTU **VWXYZ** abcdefghijk lmnopqrstu **VWXYZ** 1234567890

# Monotype Bodoni (digital version, 1990)

abcdefghijklmopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789!?,:;.--&()[]{}%\$ áéóúöi Á ÉÓÚÖÜ abcdefghijklmopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789!?,:;.--&()[]{}%\$ áéóúöüÁÉÓÚÖÜ

gkz & szp (delg) typo/history 184 / 250

 $\mbox{\ensuremath{\mbox{$\mbox{$\alpha$}}}}$  un-comment for full version

gkz & szp (delg) typo/history 185 / 250

# Monotype Modern 7 (metal version, Révai Nyomda specimen, 1967):

gkz & szp (delg) typo/history 185 / 250

A jó ízlés, sokoldalú szaktudás és kellő tipog ráfiai gondosság segedelmével, ezek birtoká A JÓ ÍZLÉS, SOKOLDALÚ SZAKTUDÁS ÉS A KELLŐ TIPOGRÁFIAI GONDOSSÁG àäâåčçéèëêěśźzìïîùûůòôřšṣśṭtñňńdHýÿœ0ffflfi ÀÂÄÅČÇĆÈËÊÌÏÎŢÒÔŽŽÙÛŠŞŚŁ12345678 90 &B.,-:;()[]†\*\*\*«»°\$£\$.·+—<sup>1234567890</sup> 1234567890  $/\pm \frac{1}{4}\frac{1}{2}\frac{3}{4} \times \ge \angle \checkmark \gg \ge \le \ge \ge \le \oplus \lozenge \otimes \sim \simeq \simeq$  $\approx \square \doteq \ll \infty \triangle \rightarrow / V < \ddagger \rightleftharpoons = \neq 0 ? ? \div © \leftarrow$  $\square @= \%_0 \times \cancel{2} \cong \leftrightarrow \cancel{*} \Rightarrow \cancel{2} \leftrightarrow \cancel{2} \iff \cancel{2} \times \cancel{3} \in$ X R\$~ € X \$ (b) \frac{1}{m}

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tips

### Romantic letterforms

### design tips: Bodoni-type usage

- digital versions not suitable for (long) texts (hypermodulation)
- certain digital revivals are exceptions (ITC Bodoni, Computer Modern)
- very good for display/poster sizes
- not suitable for on-screen display at all (hypermodulation)
- genre: (a) texts: science; (b) display: fashion/style ("elegance/femininity")

#### ON

# THE ORIGIN OF SPECIES

BY MEANS OF NATURAL SELECTION,

OR THE

PRESERVATION OF FAVOURED RACES IN THE STRUGGLE FOR LIFE.

### BY CHARLES DARWIN, M.A.,

FELLOW OF THE ROYAL, GEOLOGICAL, LINNÆAN, ETC., SOCIETIES;
AUTHOR OF 'JOURNAL OF RESEARCHES DURING H. M. S. BEAGLE'S VOYAGE
ROUND THE WORLD.'

#### LONDON:

JOHN MURRAY, ALBEMARLE STREET. 1859.

The right of Translation is reserved.

# Bodoni in mathematics (ITC Bodoni)

ACTA UNIVERSITATIS SZEGEDIENSIS

### ACTA SCIENTIARUM MATHEMATICARUM

ADIUVANTIBUS

L. KALMÁR, L. RÉDEI ET K. TANDORI BEDIGIT

B. SZ.-NAGY

TOMUS XXVII

SZEGED, 1966

INSTITUTUM BOLYAIANUM UNIVERSITATIS SZEGEDIENSIS

$$S_{\left(u_0,v_0,\lambda\right)} \quad \begin{cases} \left\langle u-u_0,w_1\right\rangle_X + \lambda \int_{\Omega} b(x)F_1^\circ\left(u(x),v(x);-w_1(x)\right)\,dx \geqq 0, \\ \\ \left\langle v-v_0,w_2\right\rangle_Y + \lambda \int_{\Omega} b(x)F_2^\circ\left(u(x),v(x);-w_2(x)\right)\,dx \geqq 0, \end{cases}$$

where  $F_1^{\circ}(u(x),v(x);-w_1(x))$   $\left[F_2^{\circ}(u(x),v(x);-w_2(x))\right]$  denotes the (partial) generalized directional derivative of  $F(\cdot,v(x))$   $\left[F(u(x),\cdot)\right]$  at the point u(x)  $\left[v(x)\right]$  in the direction  $-w_1(x)$   $\left[-w_2(x)\right]$ . The main result of the paper states that, under suitable hypotheses, there exist  $(u_0,v_0)\in X\times Y$  and  $\lambda>0$  such that the problem  $S_{(u_0,v_0,\lambda)}$  has at least three solutions in  $X\times Y$ . To obtain this result, we first have to investigate the properties of the energy functional  $\mathcal{E}_{(u_0,v_0,\lambda)}$ :  $X\times Y\to \mathbf{R}$  attached to the problem  $S_{(u_0,v_0,\lambda)}$ : i.e.,

$$\mathcal{E}_{(u_0,v_0,\lambda)}(u,v) = \frac{\|(u,v) - (u_0,v_0)\|^2}{2} - \lambda J(u,v),$$

where  $J: X \times Y \to \mathbf{R}$  is defined by

$$J(u, v) = \int_{\Omega} b(x)F(u(x), v(x)) dx.$$

We remark in passing that other hypotheses as those assumed by us may enforce that the problem  $S_{(u_0,v_0,\lambda)}$  has only one solution. For example, if the map J is uniformly (i.e., globally) Lipschitz and differentiable, then, due to the classical contraction principle, for sufficiently small  $\lambda>0$  the problem  $S_{(u_0,v_0,\lambda)}$  has only one solution for every pair  $(u_0,v_0)\in X\times Y$ .

Systems of the above type have been studied by several authors both in the differentiable and in the non-differentiable case. For example, the paper [4] is devoted to the study of semilinear elliptic (differentiable) systems in  $\mathbb{R}^N$  of the following type:

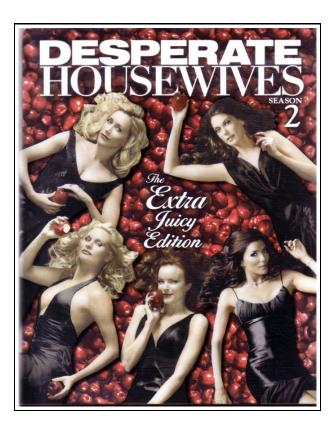
$$-\Delta u + \gamma(x)u = F_u(x, u, v),$$
  $-\Delta v + \delta(x)v = F_v(x, u, v),$ 

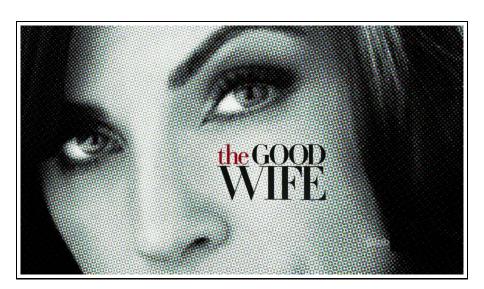
where  $\gamma, \delta: \mathbf{R}^N \to \mathbf{R}$  are continuous, coercive functions such that  $\gamma(x) \geqq a_0 > 0$  and  $\delta(x) \geqq b_0 > 0$  for all  $x \in \mathbf{R}^N$ , and  $F \in C^1(\mathbf{R}^{N+2})$ . The same type of system has been investigated in the non-differentiable case in [5]. In [1] one obtains results concerning (differentiable) systems in  $\mathbf{R}^N$  of the following form

$$-\Delta u + u = F_u(x, u, v),$$
  $-\Delta v + v = F_v(x, u, v),$ 

Acta Mathematica Hungarica 118, 2008







# Mit kiván a magyar nemzet.

Legyen béke, szabadság és egyetértés.

- 1. Kivánjuk a sajtó szabadságát, censura eltörlését,
- 2. Felelős ministeriumot Buda-Pesten.
- 3. Evenkinti országgyűlést Pesten.
- 4. Törvény előtti egyenlőséget polgári és vallási tekintetben.
- 5. Nemzeti őrsereg.
- 6. Közös teherviselés.
- 7. Urbéri viszonyok megszüntetése.
- 8. Esküdtszék. képviselet egyenlőség alapján.
- 9 Nemzeti Bank
- 10. A' katonaság esküdjék meg az alkotmányra, magyar katonáinkat ne vigyék külföldre, a' külföldieket vigyék el tőlünk.
- 11. A' politikai statusfoglyok szabadon bocsáttassanak.
- 12. Unio.

Egyenlőség, szabadság, testvériség!

tips

# Bodoni-type, poster size (2007):



# 19th c. - today

196 / 250

# typographic styles (19th c.–21st c.)

# highlights

- ▶ the appearance of **boldface**, **slab serif** & **sans serif**
- bewildering variety of artistic movements
- realism: Akzidenz Grotesk, Franklin Gothic, Helvetica, Clarendon
- **geometric modernism:** Futura, Memphis
- neohumanist ("lyrical") modernism: Gill Sans, Palatino, Times, revival of classics
- postmodernism/contemporary typefaces:
  - neohumanist
  - geometrical
- bullet digitalization of typefaces, fonts especially for screens, web fonts

## realist-modernist letterforms



#### characteristics

- ▶ neutral, simple, "ordinary" letters, non-offensive
- unmodulated stroke, often very heavy, very large x-height
- mainly vertical axis
- very small aperture
- no serifs or abrupt (slab) serifs, of equal weight with main strokes
- cursive-italic absent or replaced by sloped roman

gkz & szp (delg) typo/history 198 / 250

# geometric modernist letterforms



#### characteristics

- pure mathematical/geometrical forms: straight lines, circles
- very sterile, industrial (influence of Bauhaus)
- unmodulated stroke
- bowls often circular (no axis)
- small or moderate aperture
- no serifs or of equal weight with main strokes (slab serifs)
- italic absent or replaced by sloped roman

# humanist ("lyrical") modernist letterforms



#### characteristics

- rediscovery of Renaissance lettering, esp. calligraphy
- modulated stroke, humanist axis
- ▶ pen-formed serifs and terminals (← calligraphy)
- ► large aperture
- italic partially liberated from roman

# postmodern letterforms: neohumanist



#### characteristics

- movement away from modernism (esp. realism & geometric mod.)
- frequent humorous recycling & fusion of premodern forms (Neoclassical, Romantic or Baroque)
- rationalist or variable axis
- sharply modelled serifs and terminals
- moderate aperture
- cursive-italic

gkz & szp (delg) typo/history 201 / 250

# postmodern letterforms: geometric

# abefop*abefop* abefop*abefop*

#### characteristics

- 'light', humorous version of realism/geometric modernism
- no serifs or slab serifs
- rationalist or variable axis
- sharply modelled serifs and terminals
- moderate aperture
- cursive-italic even for sans serif types

gkz & szp (delg) typo/history 202 / 250

### slab serifs

### characteristics

- a.k.a. square serif or Egyptian style
- ▶ demand for a new sort of typeface by printers, publicity materials, ads
   ⇒ boldface
- ▶ famous slab serifs (1930s): Memphis (Stempel) and Rockwell (Monotype) – geometric modernist fonts
- typewriters imitated the style
- ▶ large x-heights, larger leading is necessary
- best for display (and not for text)
- useful for on-screen display, too

slab serifs: Rockwell & Memphis

Rockwell

# the quick brown fox jumps over the lazy dog

Memphis

the quick brown fox jumps over the lazy dog

> (http://www.myfonts.com/fonts/adobe/rockwell/ http://www.myfonts.com/fonts/adobe/memphis/)

slab serifs: Rockwell & Memphis

THE FOLLOWING LADIES & GENTLEMEN WILL APPEAR MIGHTLY:

From Weston's Music Hall, London, the great Impersonator of Male Characters and Serio-Comic Vocali .s. This Lady is considered the wonder of the age, and has no EQUAL IN THE PROFESSION.

The Charming Soprano, from the Crystal Palace, Sydenham, and the Principal

Concerts, London.

Delineator of Negro Life, and only Rival to Mackney, introducing Violin Solos, Imitation of the Farm Yard Banjo, &c., also his Champion Prize Jig.

The Great Sensational Comic Vocalist. This Gentleman is received Nightly with thunders of applause, and is pronounced by the Press to be the best Comic Singer of the Day.

The Great English Tenor.

# FIN & MIRS

The Celebrated Ductists and Original Burlesque Artistes.

# Clarendon and Rockwell compared



# the development of the sans serif

#### milestones

- unseriffed capitals already earliest Greek inscriptions, & early Renaissance scripts
- "modern" (19th c.) sans serif letters = geometrical slab serifs with the serifs knocked off
- grotesque/grotesk (Britain, Germany, Hungary)
- gothic (USA)
- became very popular by the 1850s
- heavily characterizes 20th c. and contemporary type design

# early sans serif letters

# CASLON JUNR LETTERFOUND

The sans serif type of William Caslon IV, c. 1816

# venezianischer Porträtmalerei

Sans serif lowercase of Schelter & Giesecke, c. 1825

# **MARCHES**

Early American sans serif of George Bruce, c. 1853

# Franklin Gothic (ATF, 1905) & M. F. Benton



ABCDEFGHIJKLMNOP QRSTUVWXYZ abcdef ghijklmnopqrstuvwxyz ..-;:"!? 1234567890

ABCDEFGHIJKLMN OPQRSTUVWXYZ abcdefghijklmnopq rstuvwxyz

.,-;: 1234567890

### Franklin Gothic in use



### Franklin Gothic in use



# Vásároljon napmimnap és fizessen utólag!

#### A Media Markt AURA hitelkártvával

endelkazésére bocsátunk egy mínimum 100.000 R-os hitalkeretet, amelyet barmikor, tövábbi hielbírálat nélkül levásárolhat üzleteinkben!

### A Media Markt AURA hitelkärtya

hitelkerete tovebbi hitelbiralattal akar 500 000



#### A Media Markt AURA hitelkár Rendelkezésre álló hitelkeretét azonnal, a kártva igénylésekoi

vasariasokra.

A Media Markt AURA hitelkár
A felhasznált összeget rugalma az önnek medfelelő részlétekbe

az ünnek megfeleib részlétekbe A törlesztőrészlétek tőkerésze keretét, melyet ismetelten felha  $\alpha$ 

# geometric modernism

### the Bauhaus

- ▶ 1919: the Weimar Republic, Walter Gropius, director of the Art and Design School, called the "Bauhaus"
- Kandinsky, Paul Klee, Johannes Itten, László Moholy-Nagy
- ▶ the first "Bauhaus" typeface: **Universal** by Herbert Bayer
- most important Bauhaus influence: Paul Renner (1878–1956),
   director of the Munich Master Printers' College, creator of Futura

gkz & szp (delg) typo/history 213 / 250

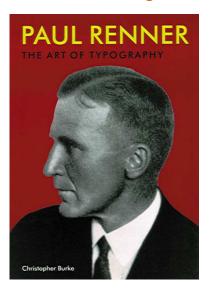
Herbert Bayer's Universal (1927)

# abcdefghi iklmnopgf stuvwxyz

#### cover of a Bauhaus book by L. Moholy-Nagy (1923)



#### Paul Renner's original concepts of Futura (1925)



aaaabbbbc ddefgghij klmnooopp qqrrsstuv wxxyz

#### Futura's g: Renner's original concepts (1925)



#### Futura: final release (Bauer, 1927)

**ABCDEFG** HIJKLMNOP **QRSTUV** WXY7 abcdefghi jklmnopgrstu **VWXYZ** 1234567890

#### Futura Classic (Wiescher Design, 2006)

```
Futura®Classic Light
ABC DE FGHIJKLMNOPQR STUVWXYZabdcdefghijklmnop
grstuvwxyzÄÅÇÉÑÖÜÀÃÕŒËÈÍÎÌÌÓÔÒÚÛÙÆØ¥Ÿ€ÂÊÁáà
âäãåçéèêeiîîiñóòôöõúùûüæøœÿfiflı¢ßµo123456789;<=>?@[\]^
`(|)~!"#$%&'()*+,/+°£§•¶®©™'``¤°$!¬f«»...-"""'-\/\>+,"%0^~~
```

(http://www.myfonts.com/fonts/wiescherdesign/futura-classic/)

gkz & szp (delg) 219 / 250

#### modern/modernist: Futura together with Bodoni

```
'So act as
           to treat
whether in thine own person
        or in that of
                                any other
in every case as an end withal
never as a means only'
                                    The Aristotelian Society lecture series begins with
                                 Immanuel Kant 1724 - 1804
                                                         on Monday 31 January 2001
                                                         of 7,00 pm
                                                         For further details contact executive
                                                         versetory at University of London
                                                         Senate House, Molet Street,
                                                         e-mail: anstalelian society@sax.ac.uk
```

gkz & szp (delg) typo/history 220 / 250

Futura revival: Google logo

# Google > Google

gkz & szp (delg) typo/history 221 / 250

¤

#### Helvetica

#### milestones

- ▶ 1950s: a process of font upgrading at type foundries
- ► Haas typefoundry in Münchenstein, Switz. commissions Max **Miedinger** to design a new sans serif family
- ▶ 1956–7: release of Neue Haas Grotesk, later renamed to Helvetica
- ▶ digital and enlarged Helvetica: **Neue Helvetica** (1983, Linotype), its OT format: **Linotype Helvetica World** (2006)
- neo-Grotesque/neo-Realist san serif face, perhaps the most neutral typeface of all time
- highly legible, large x-height, short ascenders/descenders
- readability problems in long texts
- main use: logos, display, headings, signs; the corporate identity font of the West

# 'LINOTYPE' Helvetica

a modern sans serif design

HELVETICA is a type of our time, created in Switzerland, where graphic design has reached a higher level of quality than anywhere else. The face was designed by Max Miedinger in 1956 for the Haas type foundry of Munchenstein, who called it Neue Haas-Grotesk, It won immediate approval from Swiss typographers and printers, and gained wider acclaim when the design was adopted, by agreement, by the Stempel foundry of Frankfurt, who named it Helyetica, and the German Linotype company. It is now being made by the American and British Linotype companies. The history of the typographic sans-serif ('lineal') letter form shows four distinct phases. First there was its development during the nineteenth century, from its unobtrusive introduction in England in 1816 to its proliferation in the specimen books of the later part of the century, especially those of the German founders. Then, in 1916 Edward Johnston, and in 1927 Eric Gill, created unseriffed designs of markedly patrician and academic form. At the same time there was the development in Germany of geometric sans-serifs by Renner, Koch and others according to the aesthetic principles of the Bauhaus. Finally, in recent years, new preferences in typographic design have been formed in which the sans-serif type is an essential element. The kind of sans-serif now preferred is one devoid of 'personality', where that is due to the artist deliberately projecting himself through the design; the type must subdue itself to the purity of linear pattern. Many typographers think that Helvetica satisfies this requirement more fully than any other design now current.

OTHER SIZES AND COMBINATIONS TO FOLLOW

#### Neue Helvetica (Linotype, 1983)

#### Neue Helvetica 55 Roman ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopgrstuvwxyzóöőß@\$€ 0123456789,.;:?!%\$&@#(/)[[{}<>""+=\*\

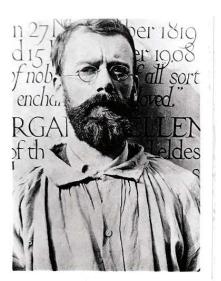
gkz & szp (delg) 224 / 250 Helvetica vs. Arial

# bzg CG Rates bzg CG Rates

gkz & szp (delg) typo/history 225 / 250

#### Edward Johnston & Eric Gill





#### Johnston Sans and Gill Sans

#### milestones

- ▶ 1915: London Transport commissions **Edward Johnston** to design a typeface to be used in the London Underground
- ▶ result: Johnston Sans
- text version by Eric Gill: Gill Sans
- ► Gill Sans is still the most important corporate identity font in Britain (BBC)

gkz & szp (delg) typo/history 227 / 250

#### Johnston Sans (1916)

**ODBEFHIJKLMN PQURSTVWCG** QU WA &YXZJ

obdcepqqugas aghijklmnrsek tvwxyz g g 1234567890 *Qupqjyg* 

gkz & szp (delg) 228 / 250

#### Johnston Sans and Gill Sans compared

**ABCDEFGHIJKLMN ABCDEFGHIIKLMN OPQRSTUVWXYZ OPORSTUVWXYZ** abcdefghijklmn abcdefghijklmn opqrstuvwxyz opqrstuvwxyz

sans serif

Johnston Sans revival: Underground Pro (Paul Hunt, P22, 2007)

# ( JNDERGROUND

PENGUINS @ THE ZOO the Willing Beast UBFR TUBFR Do not attempt to enter a crowded car. )UID, PLEASE THE RIGHT WAY TO GET ON

gkz & szp (delg) 230 / 250

#### Gill Sans MT Pro (2005; Monotype)

abcdefghijklmnopqrstuv wxyz& ABCDEFGHIJKL MNOPQRSTUVWXYZ 1234567890 Gill Sans Eric Gill's best-known

gkz & szp (delg) 231 / 250

#### Johnston Sans in use (London Underground)



#### Gill Sans in use (BBC corporate identity)



#### Gill Sans in use (BBC corporate identity)



#### Gill Sans in use (BBC corporate identity)



#### Stanley Morison (1889–1967)

#### influence

- perhaps the most distinguished British typographer and design art historian
- worked at the Monotype Corporation & Cambridge Univ. Press
- ▶ founder of typography journals (*Imprint*, *The Fleuron*)
- leader of Monotype's revival programme for classic type
- designer of Times New Roman; redesigner of The Times (1933)

#### Times New Roman (1933)

#### characteristics

- ▶ a typographical style mix: humanist axis, but Baroque proportions, weight, and a sharp Neoclassical finish
- reason: wanted a typeface that fits all aspects of a newspaper
- digital versions: Times New Roman by Monotype (Win; Word); Times Roman by Linotype (Mac; TFX)
- ▶ the digital versions are hated by most typographers: very bad kerning, too narrow for books, boring (default serif font on computers, web)

#### "THE TIMES"

## LAST DAY OF THE OLD TYPE

#### MONDAY'S CHANGES

The Times appears to-day for the last time in the type to which the present generation has grown accustomed.

On Monday the changes already an-

## "THE TIMES" IN NEW TYPE

### HOW THE CHANGE WAS MADE

The change of type completed with this morning's issue of *The Times* has involved one of the biggest undertakings ever accomplished in a newspaper office. More than two years have been devoted to designing and cutting the type charac-

#### Times Old Roman & Times New Roman



The Agenda 2010 Your need-to-know guide to what's ahead Today: World Affairs

#### THE TIMES



From climate change to cuckoos

A year in Letters to the Editor



#### Ministers in secret talks to toughen strike laws

Hart routine, was a white tool talke distinction have bell constituted talke distinction have bell constituted to the conversation by experience by the conversation by experience by the conversation by the conversation of the Ministers have held confidential talks

industrial action Non2, popes 6, 7

our accusing to a crossing of a crossing the minimum terrout for strikes her the RMT rail union's industrial tion last year was prompted by a diot in which less than a third of emborsystad.

Job cuts prompt fear of union-led disruption

plan for reductions to their budgets of a to 40 per count which using any could raise the number of public sector. by lossests more than a sality and Derek. Simpons. of Unite. has warried of impending changes to mis-haw. He and. He early in the late is a haw in the miss of the country of the sality of the country of the country of a certainty, if we are to be guided by especiester. A source familiar with the govern-



Nadal's return brings Wimbledon triumph

Police urge fugitive to surrender as three shot

the Future projects. News, page 6 Tesco rainforest link

Time runs out on Argentina legend's career in the dugout



#### contemporary type design

#### some characteristics

- exclusively digital technology (Unicode, OpenType)
- revival programs
- emergence of small, independent digital type foundries
- neohumanist, postmodernist sans, slabs and serifs
- ▶ fonts exclusively made for non-printing media (tv, beamers, web)

#### influential typeface: Palatino (1950) by Hermann Zapf

**ABCDEFGHIJKLMNOPQRS** TUVWXYZ abcdefghijklm nopgrstuvwxyz 1234567890 .,-;:!?""\$&fffifl=Qu **ABCDEFGHIJKLMNOPQRS** TUVWXYZ abcdefghijklmnop *qrstuvwxyz* 1234567890 .,-;:!?""\$&fffifl=eThQu



# S $\int_{C}$

243 / 250

#### Hermann Zapf (1918–)



#### some postmodernist digital fonts

Minion: ABCDEFGabcdefg012345?!

Scala Sans: ABCDEFGabcdefg012345?!

Dolly: ABCDEFGabcdefgo12345?!

Klavika: ABCDEFGabcdefg012345?!

Myriad: ABCDEFGabcdefg012345?!

Optima: ABCDEFGabcdefg012345?!

Frutiger: ABCDEFGabcdefg012345?!

Charter: ABCDEFGabcdefg012345?!

#### major contemporary type foundries/faces

- Monotype+Linotype: re-releases, expansion of classics (www.monotype.com, www.linotype.com); text: Sabon (J. Tschichold); sans: Optima (H. Zapf), Frutiger, Univers (A. Frutiger), Futura, Helvetica...
- Adobe (www.adobe.com/type) (R. Slimbach, C. Twombly); text: Minion, Adobe Garamond, Warnock; sans: Myriad
- ▶ Bitstream (www.bitstream.com/type); text: Charter BT
- ▶ DTL (Dutch Type Library; www.dutchtypelibrary.nl): Elsevier, Fournier
- ► Elsner & Flake (www.elsner-flake.com/)
- ▶ Emigre (www.emigre.com): text: *Mrs Eaves, Filosofia* (Zuzana Ličko)
- ► Font Bureau (www.fontbureau.com); sans: Interstate
- ► Font Shop/FontFont (www.fontshop.com); text: Scala; sans: Scala Sans (Martin Majoor), FF DIN, FF Meta, FF Dax, The Sans
- ► Underware (www.underware.nl); text: Dolly
- ▶ Process (www.processtypefoundry.com); sans: Klavika

# Klavika as contemporary web corporate identity (Process, 2006)



#### the Underware team



They began working together ten years ago when studying type design and typography in The Hague, the Netherlands. They gradually became

#### major contemporary type foundries/faces (cont.)

- ► Canada Type (www.canadatype.com)
- ► Letraset (www.letraset.com)
- **P22** (www.p22.com)
- ▶ Porchez Typofonderie (www.typofonderie.com): Sabon Next
- ► **URW**++ (www.urwpp.de)
- OurType (www.ourtype.be)
- House Industries (www.houseind.com)
- ► Hoefler & Frere Jones (www.typography.com)
- Jeremy Tankard Typography (www.typography.net): Kingfisher
- ► MacRhino (www.macrhino.com): Delicato
- Fontmunkások (www.jobart.hu)

#### sample exam questions

If you had to typeset a book on neoclassical architecture (like the "federal" style of the USA), which of the following typefaces would you employ in order to be the most historically "faithful" to this art period?

- 1. Garamond
- 2. Caslon
- 3. Baskerville
- 4. Centaur

#### Which of these fonts is the most suitable for longer texts?

- 1. Helvetica
- 2. Adobe Garamond
- 3. Clarendon
- 4. Gill Sans