Humanist Scripts

- Created by a small coterie of Italian scholars in the late 14th-early 15th c.
- Late 14th c.: Petrarch began experimenting with a new personal script, as did his friend Boccaccio.
- Same period: their friend Salutati was collecting Carolingian manuscripts and experimented with immitating some of their letter forms.
- Beginning of 15th c.: Poggio invented a new script closely modeled on the Carolingian.
- Also early 15th c.: Niccolò Niccoli invented Humanist cursive (italic) as an entirely new script.
- All these men were trained scribes and notaries familiar with all the Gothic scripts of the day.

PRIMVS . INCIPIT. FELICITER .

VCVS. QVIDEM. IIIE. ET. HAEC. ARPINATIVA quer cus agnoscitur s'epe a me lectus in mario. sin manor illa que cus hec est psecto. L'en est sane uerus. Manor u autice nir de semp manebur. sura est enim ingenio. nullius autem agricole cultu stips tam diuturna q poere uersu seminan potest. A Quo tande modo quinte: aut quale est istuc quod

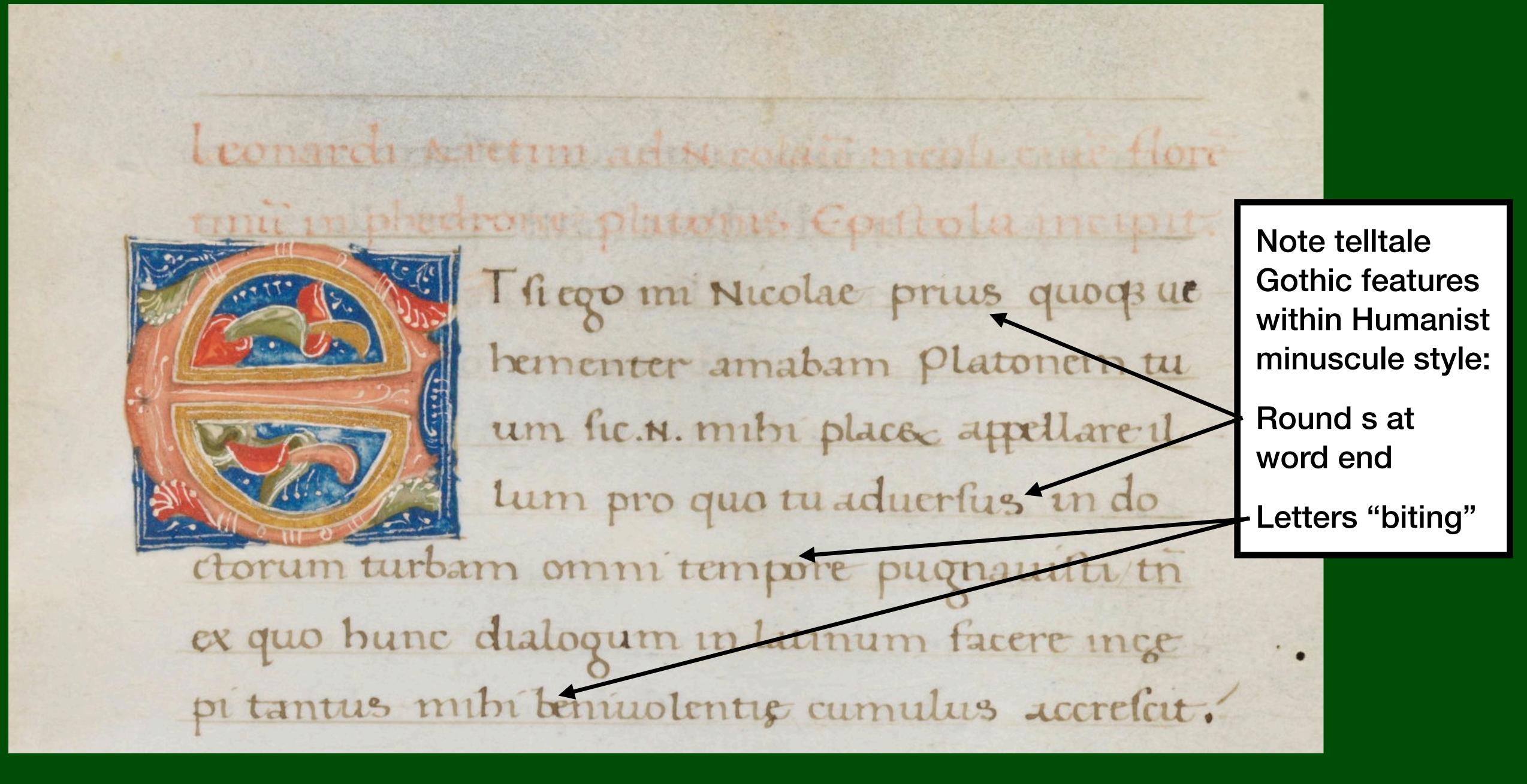
poete Cerunt

Note spare page, spacing, Square Capital initials and Rustic Capital headings, ampersand for et.

Detail below: note proportions and spacing, Caroline g, upright d, tall s at word end.

quare glanchifera illa quercus ex qua olum fulua vous muranda usa figura-nunc su

The hand of Poggio: Vatican City, Biblioteca Apostolica Vaticana Vat.lat.3245



Cologny, Fondation Martin Bodmer, MS Bodmer 137. Plato, Phaedo (in Latin translation). Italy, early 15th c.

B. transit m.c. ut obcurro succurro in.f. ut officio. in q. suggero. in.m. summitte globus glomus. in p. ut suppono in r. ut surripio in s. ut ube uis. s. nam susapro sustruli à susum nel surfum adnerbro composita sunt in subtemio & subcumbo non mutauerunt. b. m. s. supror et suscipio a sursum nel sursum componint ur et unum.s. abijeunt b. in in enfonce aufa connertitur ut



CVIINTELLIGAT.

ESSE DIFFICILES

subdit: Non potest eas homo explicare sermone' Se cundum igitur distinctionem rerum potest accipi distinctioned dissipationim. Refautem prima sui di uisione dividi potest in rem creatam/&increatam: sive in rem ase « & in rem ab also habentem esse: sive in rem necessariam » & rem possibilem: sive in rem finitam » & infinitam: Refautem incausata infinita « & necessaria



Duns Scotus in Humanist drag: a late-15th-c. manuscript made for Ferdinand I, King of Naples



Two very different 15th-century manuscripts of Duns Scotus

The Invention of Printing in the West

What did Gutenberg really invent?
The early printed book as craft object



East Asian printing

11th-c. printed Chinese book, *The Scripture* of the Great Flower Ornament of the Buddha



The Buddist canon stored on 13th c. woodblocks in a Korean temple



Korean Hangul (alphabetic syllabary) in metal type from the 15th century.

The sorts were probably created by sand-casting.

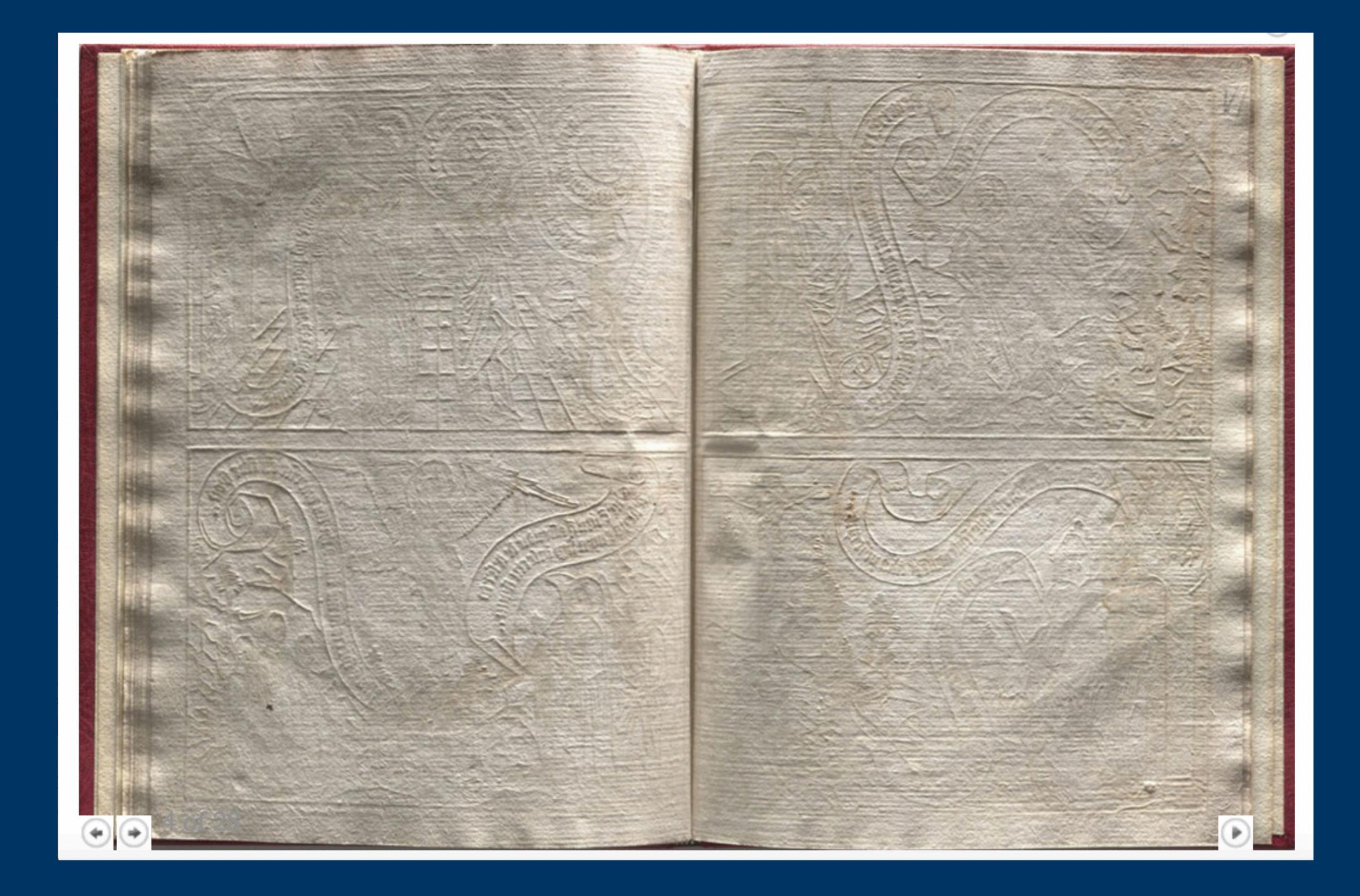


Block books (1460s-70s)

An alternative
15th-century
printing
technology



The backs of printed pages in a 1465 block book, seen in raking light



incunable, incunabula

"cradle books"

= book printed in the first 50 years of printing in the West (up to 1500)

The core of the invention, as we know it was practiced from shortly after Gutenberg's initial efforts:

MOVABLE METAL TYPE

MOVABLE: Individual pieces can be reused ad infinitum to set new texts.

METAL:

- Pieces of type are cast in metal from molds which allow the replication of many identical pieces of type.*
- Metal stands up to the pressure of the press through many, many reuses, unlike wood.

Type metal (lead + tin + antimony)
 melts easily and hardens almost instantly.

A PRESS adapted to bring even pressure down on paper or parchment over pages laid out in metal type

INK that would work with the above system

*Did Gutenberg really use this system of typecasting? Newer scholarship raises doubts. More on that shortly...

The Context for Early Printing

Knowing what books looked like in the 15th century and what the book trade already looked like gives us the context for Gutenberg's invention:

- Books: script choices, layout
- Large and growing readership in all the languages.
- Trade: multi-craft process of professionals in cities, organized through stationers who coordinated the multiple components
- Urban context: not only the multiple book arts, but many other trades and merchants

Snower Liber Sab



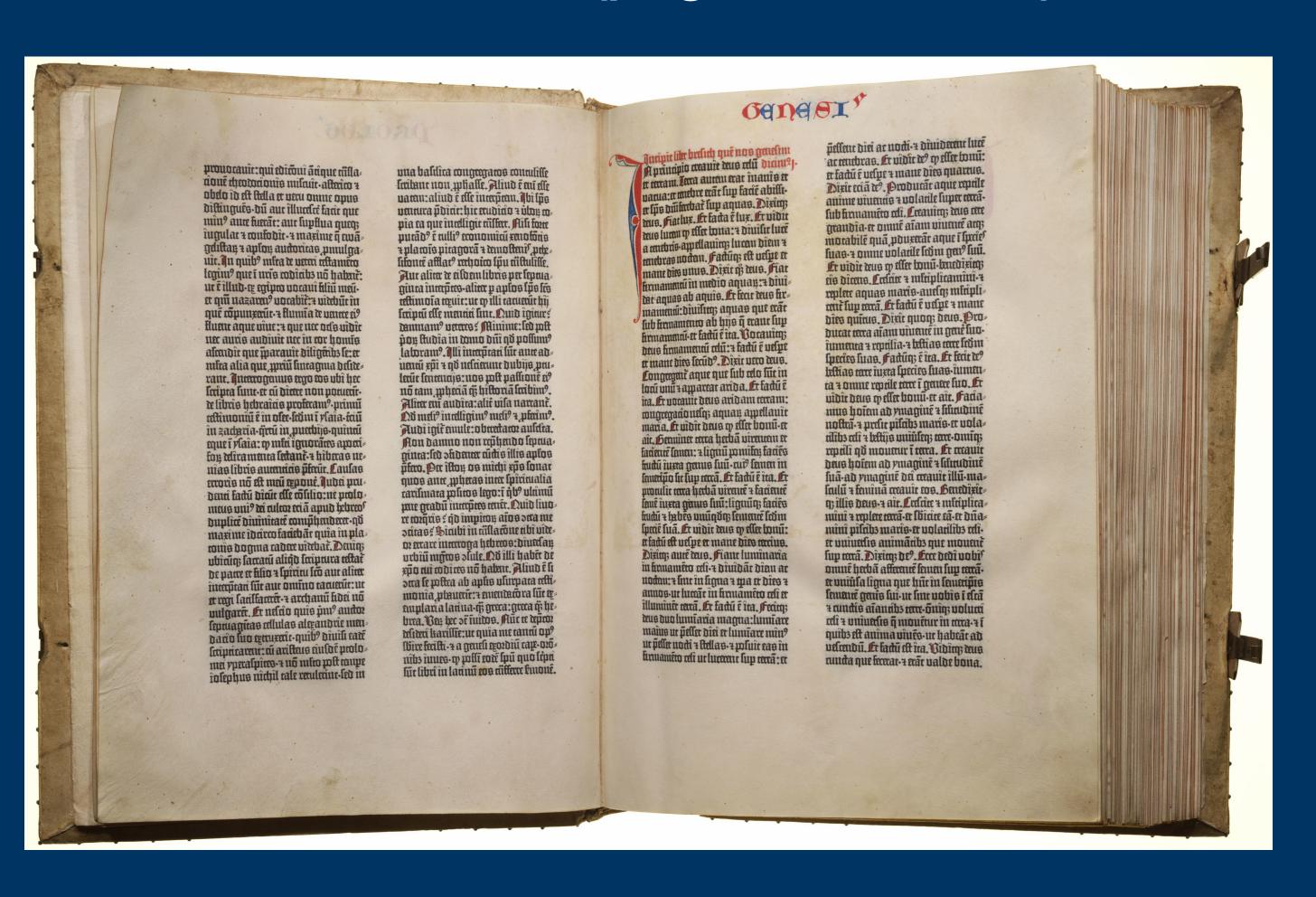
tomus, que corneus appelle liberos mos, er motan fant. Er effugi ego falus ut manare ula. Tunc farreur Job er fadur nelharma fins, et toulo apper morneus internamentos unter digit. Produs egreffus fant te incron us mee er midus reierar illue. Dus adur dus ebthat. han duo plaant im fadum elfic nomen dui benedich. In anabus hijs u persiut Job ladus fins, noop shara quid mun

actum est autem quadam due um nemilleur sun en larient sub et estatum en diducture sus diductures et sum competiu emis ur dimer dus ad satia. Unite vemis. Etm veimilieur aut. Cumum et pum et per ambulam eum. Et dura dus ad satia chan. At munite sum et per ambulam eum. Et dura dus ad satiam et sum et sum et mens ur sum et mens amalo et ad fur ren neus minocinam. En aux comonistime du veimilieur sum ur assument eum frustus. Em respondens satiam ar pellem propelle et menque haber homo dabur pro ammas sus. A lioquim unte mami mam et minge os ems et cumem, et mut inchis ad misar benedix eur abi. Durat engo dus ad satiam com mami una est meruntamen amman illus serva. A segustius ignur satiam a sace duipercustir sob ulcen pilimo a planta pedisulg admencim emis. Etm alta samen interpretas emis et mon estatus sobre sobre et mon emis ettim a planta pedisulg admencim emis. Etm alta samen interpretas seminament satisma etmas semina sum entitus sobre eto et moner. Etm aut ad illam. Etmas sum ethins inmlieritus soma es subma sum ethins inmlieritus soma es subma sum seminament sobre dura ethins inmlieritus soma es subma sum etmas etman dus quant mas anno sobre sum emis seminament. Emis sum emis etc sama sobre etm emis seminament. Emis et es saluad sum etmas etc. Es saluad sum etmas sum sum sum emis sum emis etc. Et saluad sum etmas sum sum sum emis sum etmas sum emis sum e

ledicit der fuo ier fooinis eft. Dere ar dies in qua namis fum- er nog in qua dichi est. conceptus est homo. Dies ille increatur in reneluas a zon requint est trus techiper et non fir increadacone er non il lustrene lumine. Disamente est renella tur mortes. Admirer en maligo et mucha tur amarindine a zocien illam renebiolis incho possine zon computant indiebus anni ner immerene mineralibus. Dit novilla

Left: the Giant Bible of Mainz, 1452-53 (pages 23 x 16 in)

Below: Library of Congress copy of Gutenberg's Bible, ca. 1450-1455 (pages 17 x 12 in)



Johannes Gutenberg, ca. 1400-1468

- Family were goldsmiths who worked in the mint of the Archbishop-Elector of Mainz
- By 1450: Fust and Schoeffer (who would soon form a printing firm of their own) invest in bible project. —> Note the huge up-front investment required to set up in printing.
- Work on the Bible was probably under way by 1452.
- Earliest surviving printed item from Gutenberg's press is an indulgence printed in 1454.
- Bible (The 42-Line Bible, the Gutenberg Bible) was finished in 1455.

The Gutenberg Bible: diversity of copies

- About 160-190 copies were printed.
- 49 survive in whole or in part, ¼ of them on vellum
- Most copies were bound in 2 vols; parchment copies may be in 3 vols. (We have a few in 15th-c. bindings.)
- Gutenberg changed his mind about several things in the course of the print run:
 - whether to print the red parts
 - how many lines per page (switched from 40 to 42)
 - the size of the print run
- All copies were hand-decorated to some extent.

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rupt the job.

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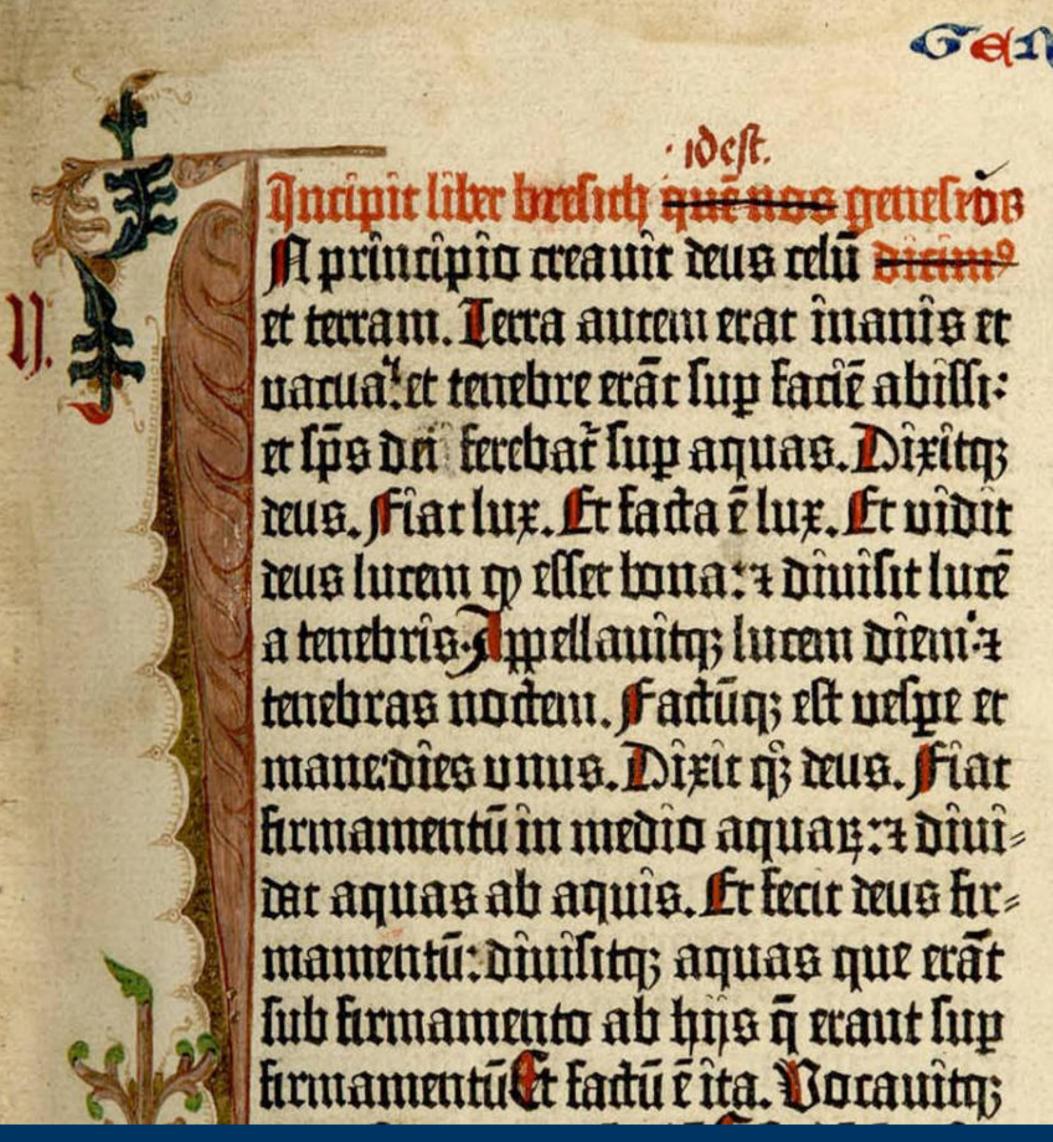


Gutenberg's press





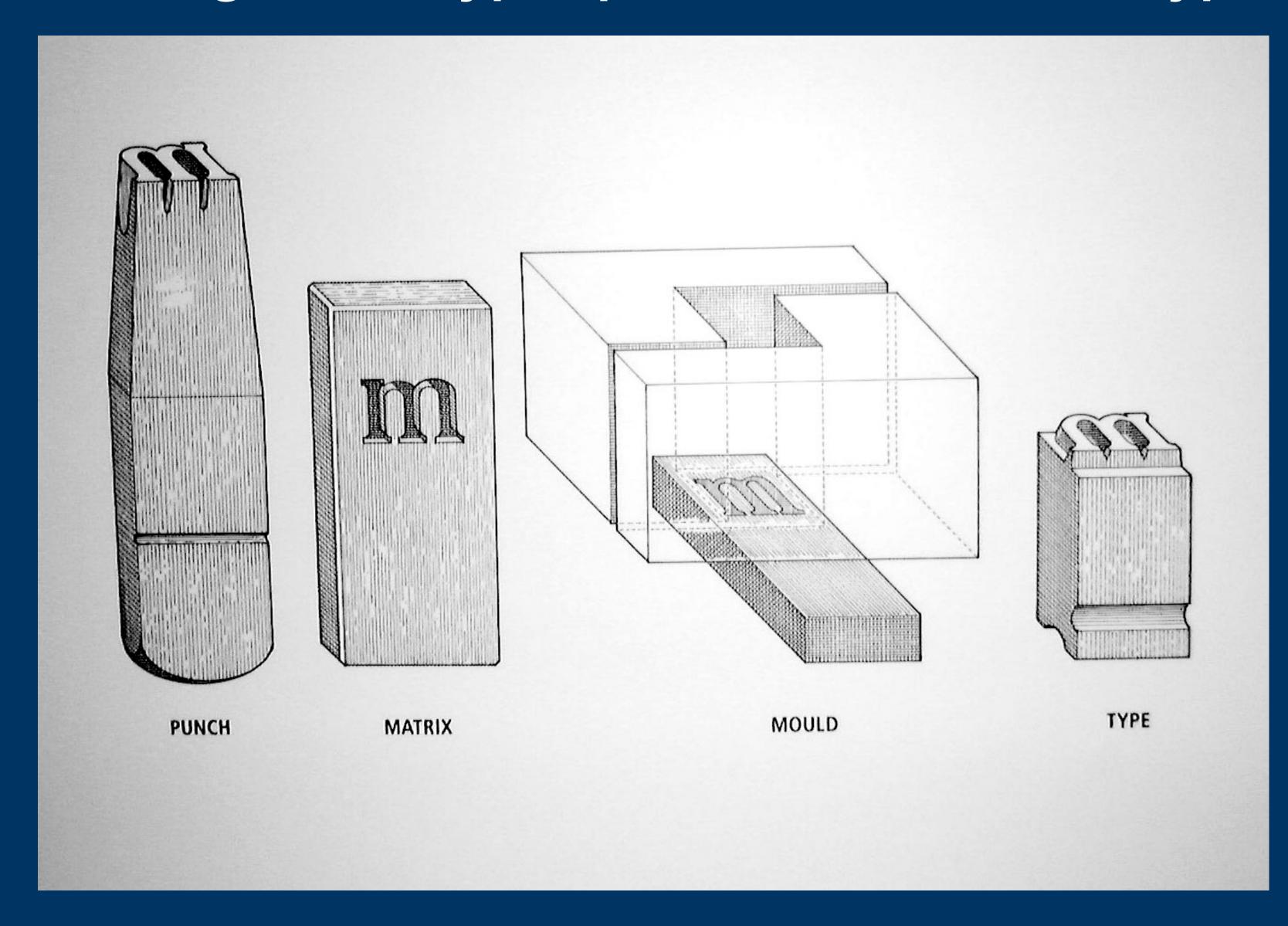
Details: Ransom left; Vatican top right; Stuttgart bottom right





Incipit libr breith que nos genelim A principio ceanir deus edu dicim? er ceram. Terra aucen erat inanis et vacua: er cenebre erat lup facie abillier lps dii ferebat lup aquas. Dixing deus. Fiat lux. Er facta é lux. Er vidir deus lucan queller bona: 4 dinilir luce

Making metal type: punch, matrix, and type



- 1. Punchcutter carves the steel punch.
- 2. Punch is struck into the copper matrix.
- 3. Matrix is inserted into a hand mold.
- 4. Hot typemetal is poured into the mold.

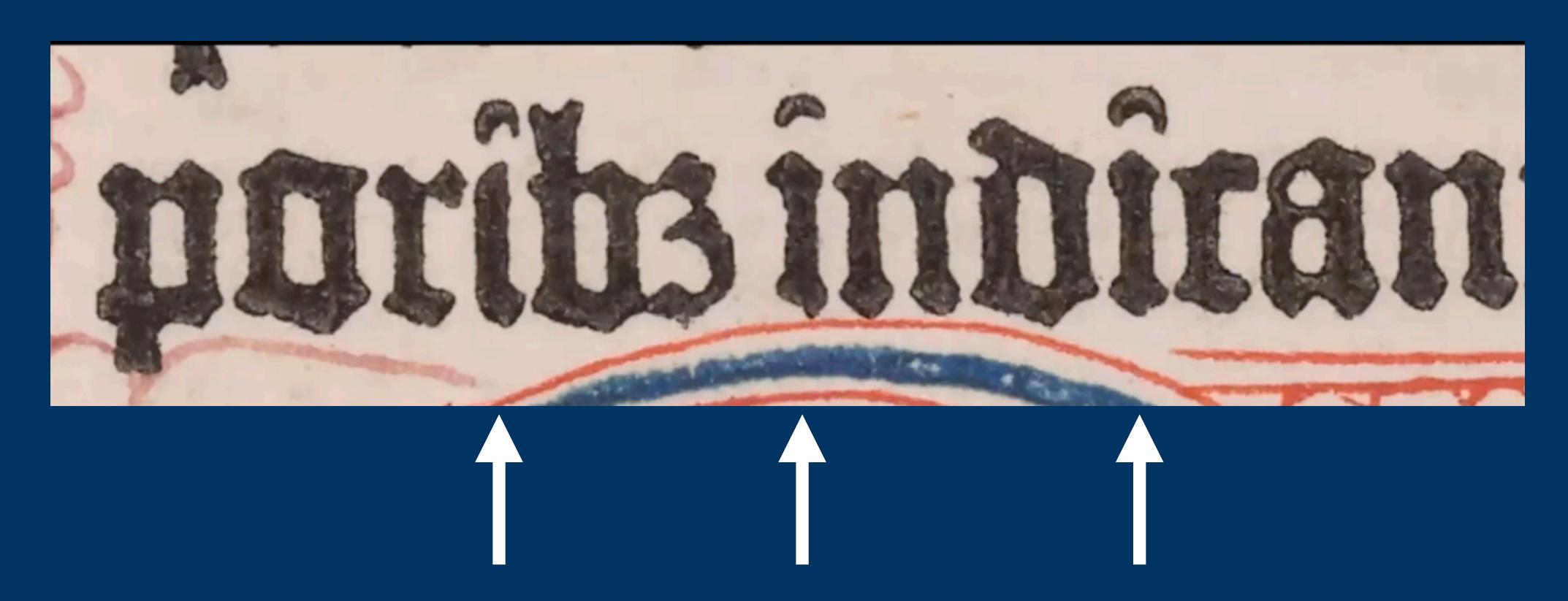


Synopsis of the B42 type, Gutenberg's type for the 42-line Bible

270-290 distinct characters

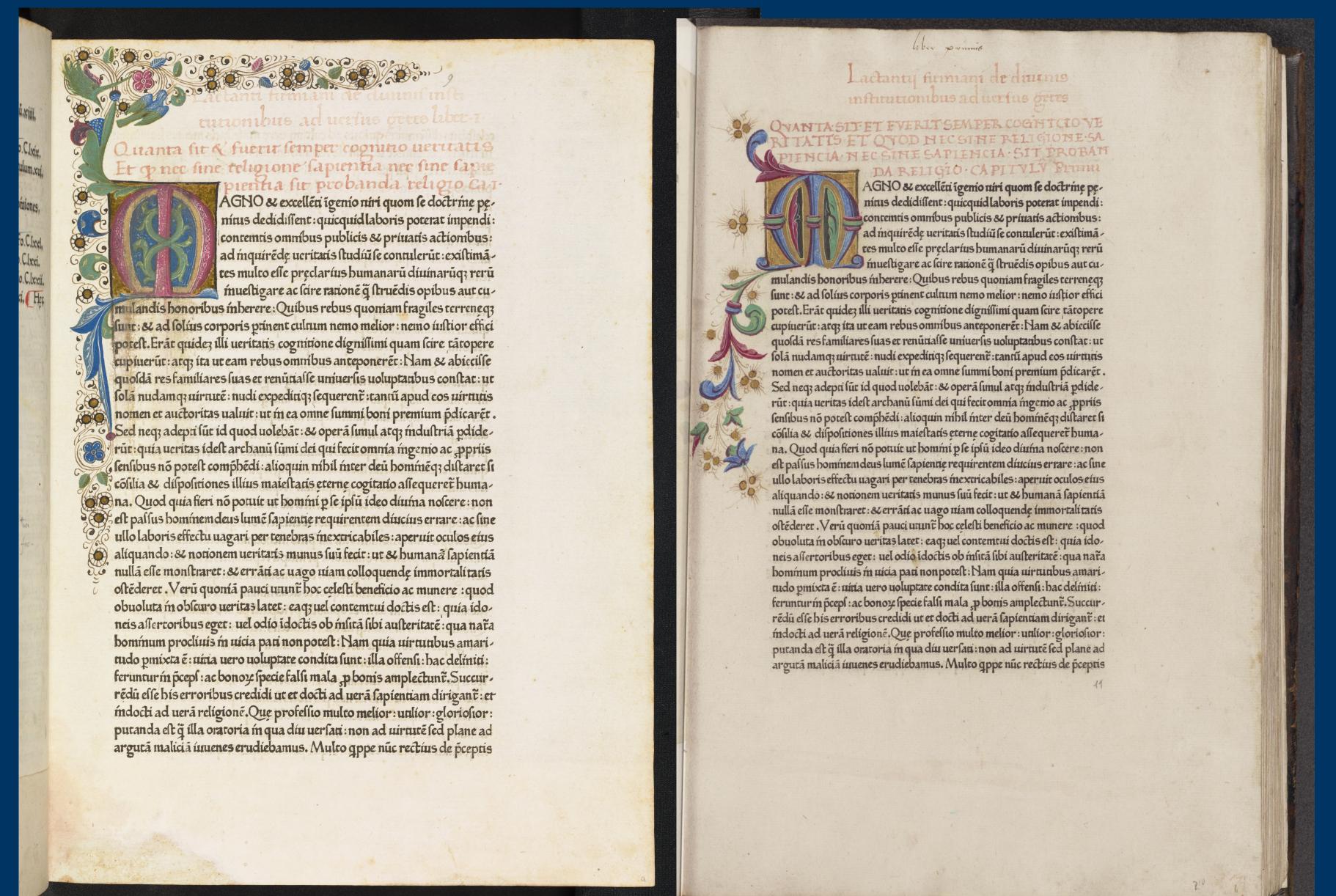
```
MADPORB
             MADPORB
          B 1
       B D I
       IHUXVZ
        HUXVZ
d'attarié é é ppffffind
nāpptiillaaatirw
       nūnmked
```

Did Gutenberg actually cast identical type pieces using the punch-matrix system?

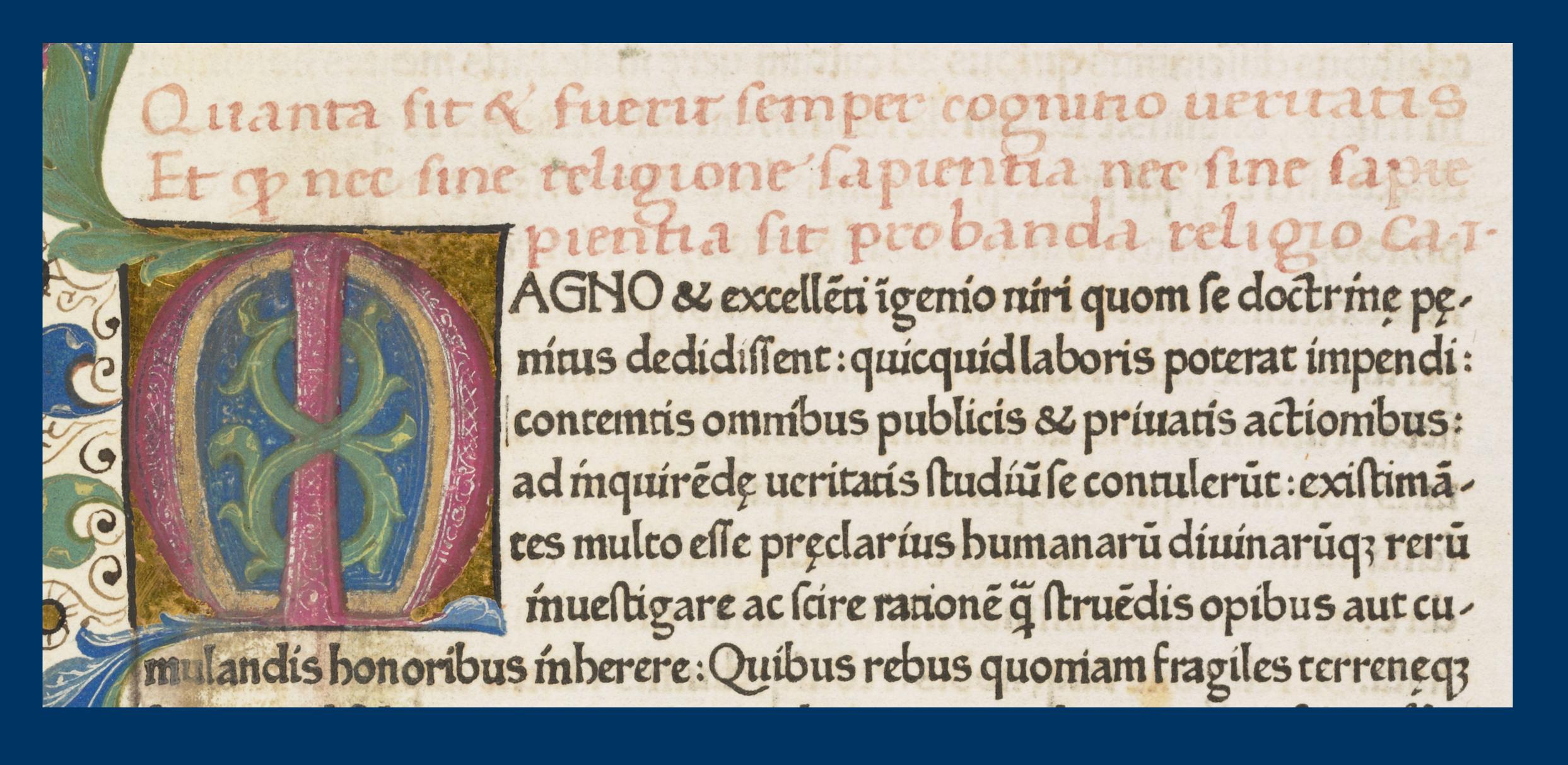


Printing in other 15th-century styles

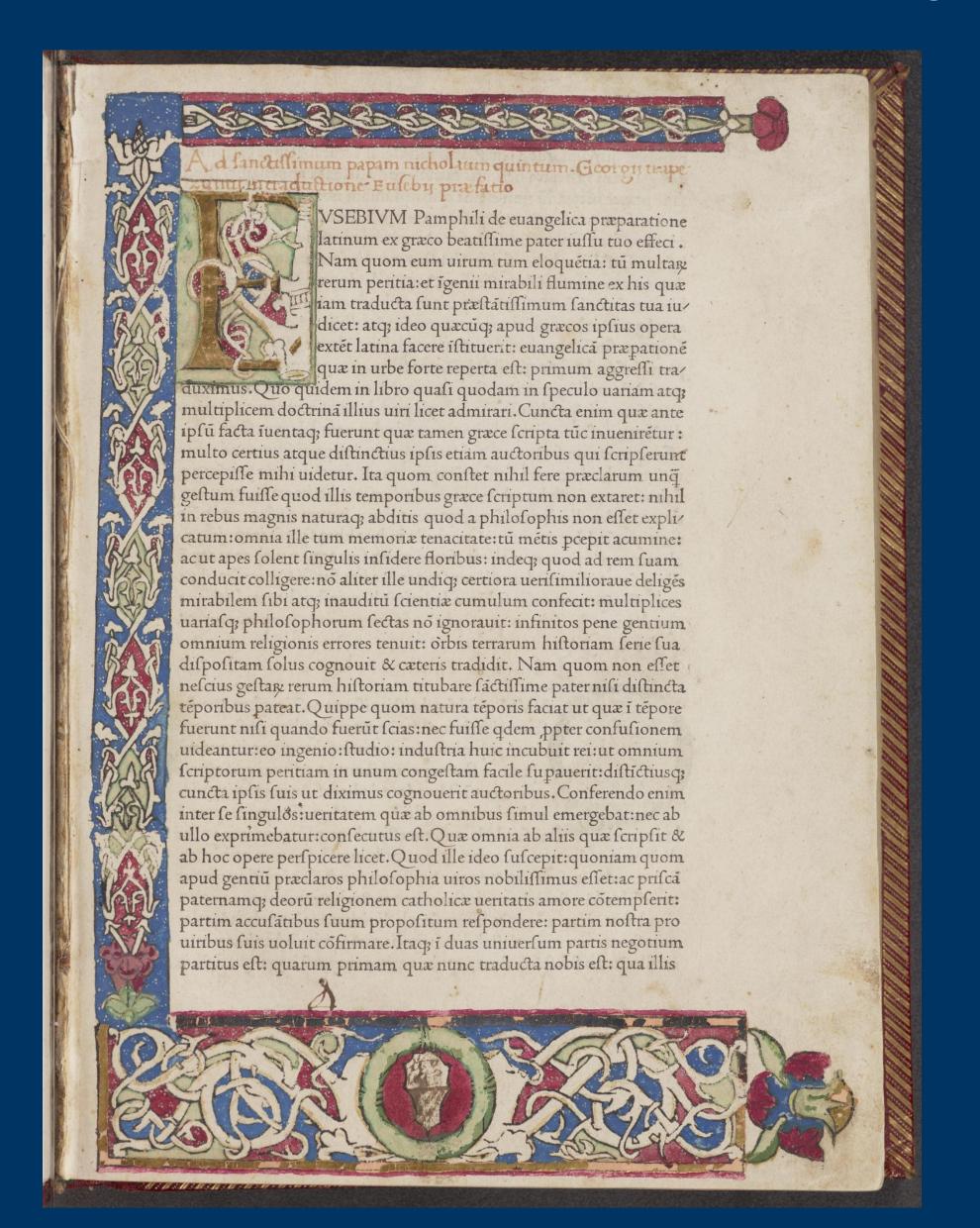
Other early printing: Sweynheym & Pannartz, Works of Lactantius, printed in Subiaco, Italy,1465. The first book in Roman type.

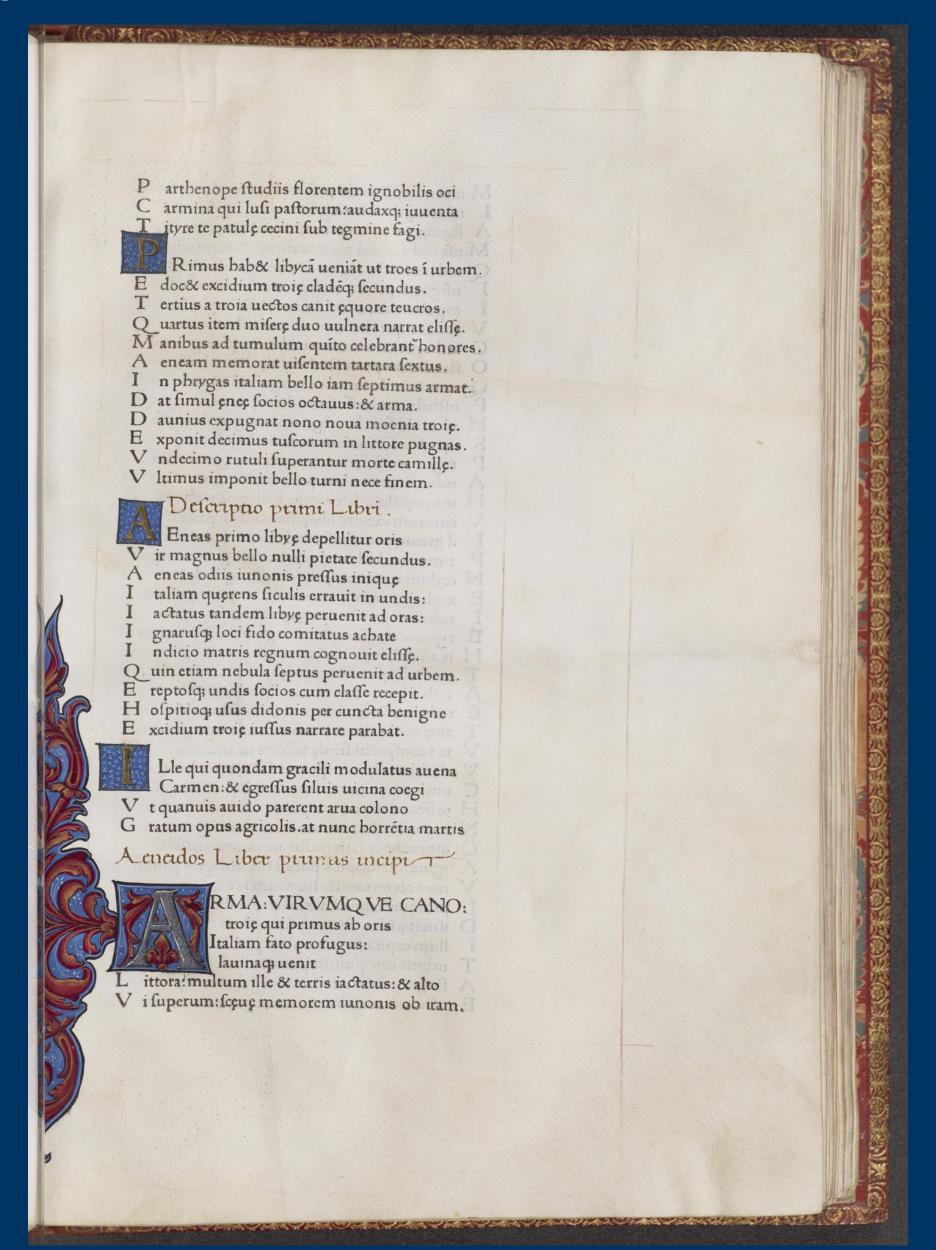


Detail of the Sweynheym & Pannartz Lactantius

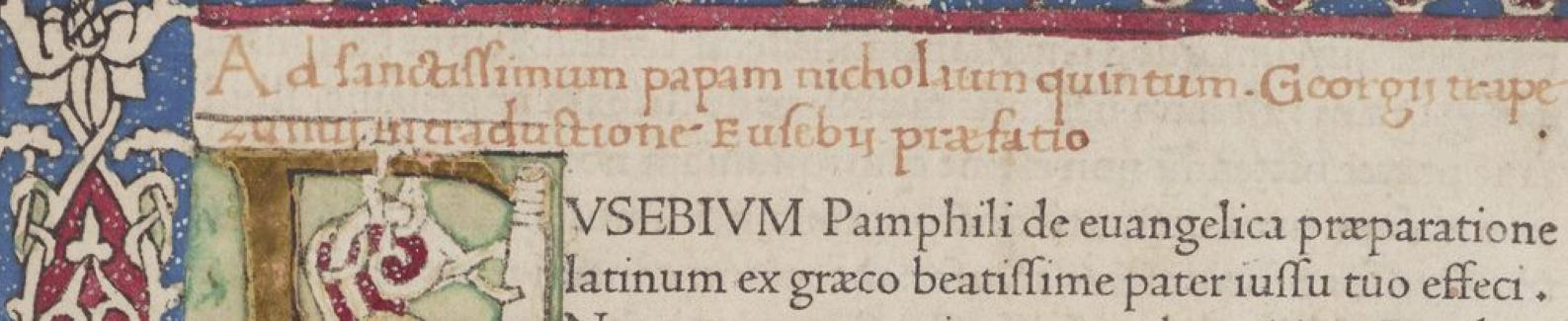


Mature Roman type: Jenson's Eusebius (left) and Vindelinus de Spira's Virgil (right), both Venice 1470





Details of Jenson's Eusebius and Vindelinus de Spira's Virgil



VSEBIVM Pamphili de euangelica præparatione latinum ex græco beatissime pater iussu tuo effeci. Nam quom eum uirum tum eloquétia: tū multare rerum peritia: et igenii mirabili slumine ex his quæ iam traducta sunt præstatissimum sanctitas tua iudicet: atq; ideo quæcuq; apud græcos ipsius opera extét latina facere istituerit: euangelica præpationé quæ in urbe forte reperta est: primum aggressi trad

