

Vindolanda: a font that reproduces old Roman cursive

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Abstract

Vindolanda is an open-source and free font that reproduces the letterforms in Latin manuscripts found during excavations at a Roman auxiliary fort in northern England. Most of the letters in this font copy the writing on the wooden tablets from Vindolanda, i.e. early Roman cursive, but in a strict modern sans-serif, which allows you to combine the originality of the lettering in manuscript documents with the beauty of regularity in the typographic era. The font can be used for more authentic reproduction in books and on websites of texts written in Roman cursive, as well as for educational purposes to practice reading texts written in Roman cursive. Uppercase and lowercase letters are not distinguished. In addition to the letters of the Latin alphabet, the font contains the letters of the Cyrillic alphabet and the extended Cyrillic alphabet for minor languages. These letters were created for entertainment purposes and have no historical basis.

Introduction

This document presents a typeface that reproduces the appearance of the Roman cursive in its ancient version. It is modeled on the letters read on wooden tablets found during excavations in Vindolanda

The anaerobic conditions at the Roman fort of Vindolanda, close to Hadrian's Wall in northern Britain, have famously preserved a variety of finds made of organic materials, including wooden writing tablets and a pair of leather boxing gloves. [1]

The most famous is [tablet 291](#) with a birthday invitation from Claudia Severa. Her letters are mainly used as a model for the font.

The elegant script in which this letter is written is also probably to be recognised in 243, 244 and 248. The letters are slim, with marked ascenders and descenders, and very little use of ligature. [2]

The goal of the font is to combine the specificity of lettering in handwritten documents with the beauty of regularity in the typographic era. In this sense, the task of creating a font is similar to the one pursued in the creation of the antiqua. In the era of creating typefaces for early book printing, typographers also focused on how letters were handwritten, but the letters were uniform and didn't look too varied.

Vindolanda font is a modern sans-serif font that is designed in a unified style. Its character is determined by the antiquity and manuscript character of the prototype [1](#), and at the same time by the opposite trend: the modern appearance of mass-produced fonts.



Figure 1: Letter-forms in the tablets. Image ownership: © Society for the Promotion of Roman Studies.

B. Voronetsky and E. Kuznetsov say on ancient Greek writings:

It is unusually simple, built sparingly clear lines of uniform thickness. [3]

I'm aiming for the same stylistic guidelines when I'm working on the Vindolanda font.

They also write about the Latin font:

Roman font was not something uniform and constant: it was noticeably modified and existed in various forms. Its basic and original form is the capital font (lat. *caitalis* – large, main, solid), also called majusculus (lat. *majusculis* – somewhat larger), because it consists exclusively of capital (large) letters. An inscription made by majusculus is placed strictly between two horizontals, without a single line going beyond the line formed by them. Majuscule is, first of all, the font of solemn writings carved on columns, triumphal arches and walls. (...) Its technology (...) is careful slow carving in a stone slab along a predetermined contour. (...) He is clear, harmonious and stately. (...) Another variant of the handwritten Latin writing was cursive (lat. *currere* – to run; running, means slanted). In cursive, letters were simplified, joined together, and lost some details. Quickness was achieved at the cost of loss: clarity, clarity, beauty suffered. Therefore, italics (in its various forms) was used only for business records and letters.

Vindolanda returns clarity and precision of Greek writings to Roman cursive.

Thus, it is not necessary to appeal to modernity to justify the need for this typeface.

In addition to the letters of the Latin alphabet, the font contains the letters of the Cyrillic alphabet and the extended Cyrillic alphabet for minor languages such as Bashkir, Tatar and Udmurt. These letters were created for entertainment purposes and have no historical basis. They represent only my fantasies on how the Cyrillic alphabet based on Roman cursive could have been look like. Nevertheless, the Cyrillic letters are based on the Latin letters in one way or another. How they were designed is explained in a special section in this document.

This fancy Cyrillic was created out of a desire to make the typeface more usable and out of a desire to popularize the Roman cursive lettering.

The font can be used for more authentic reproduction in books and on websites of texts written in Roman cursive, as well as for educational purposes to practice reading texts written in Roman cursive. The font can also serve as a secret spelling for kids who want to start their own private club, like in the "Dead Poets Society" movie.

Lingua Latina

Vindolanda est typus aperti fontis et liber qui formas litterarum in manuscriptis Latinis, quae durante excavations in castris auxiliariis Romanis in Anglia septentrionali inventae sunt, reproducit. Plurimae litterae in hoc fonte scribendi exempla ex tabulis ligneis Vindolandae, id est, cursivum Romanum antiquum, imitantur, sed in stricte moderno sans-serif, quod permittit originalitatem litterarum in documentis manuscriptis cum pulchritudine regularitatis in aetate typographica coniungere. Typus adhiberi potest ad veram reproductionem in libris et in paginis interretialibus textuum in cursivo Romano scriptorum, necnon ad usus educativos ad exercitandum legendi textus in cursivo Romano scriptos. Litterae maiusculae et minusculae non distinguuntur.

The shape of the letters

Overview

Traditionally, letters are drawn on the background of a grid of 16 squares proposed by A. Dürer to show their correct proportions [2](#). But the very nature of cursive contradicts this idea.



Figure 4: Letter A from tablet and from the fontface.

One of the most unlike letters we're used to [5](#).



Figure 5: Letter B from tablet and from the fontface. Very vertical with a stand-alone element.

It was very important to keep the angle of the stem [6](#). Through such lettering, we better understand the history of letters. The C was not always rounded. It was written in two linear movements. In cursive, this method is captured.



Figure 6: Letter C from tablet and from the fontface.

The letter d had to be modified a bit to keep the overall character and uniformity of the font, it became more like a and b [Z](#).

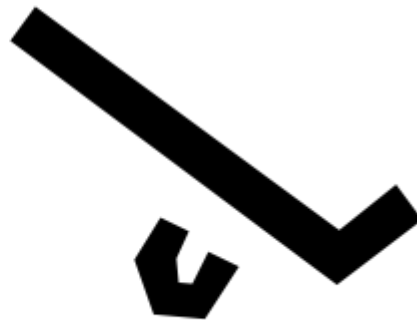


Figure 7: Letter D from tablet and from the fontface.

e		<i>e</i>
f		<i>f</i>
g		<i>g</i>
h		<i>h</i>

Figure 8: Letters from tablet and from the fontface. 1/3

Sans-serif fonts are not only sans serif. They also tend to have stems, hairlines and bars of equal thickness. In general, this rule is followed, except for the letter L, in which the seal in the crossbar emphasizes the origin of the letter from handwriting.

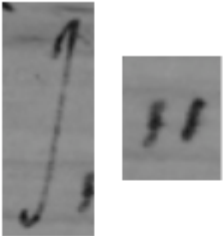
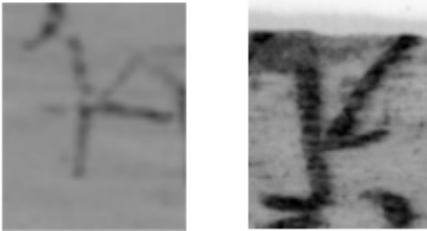


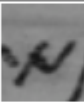
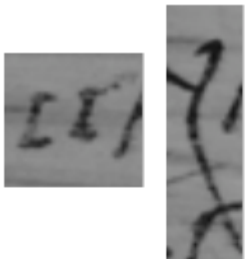
i		<i>l</i>
j	= <u>i</u>	<i>j</i>
k		<i>κ</i>
l		<i>L</i>
m		<i>μ</i>
n		<i>ν</i>
o		<i>Ϟ</i>

Figure 9: Letters from tablet and from the fontface. 2/3

It was a challenge not only to draw the letter q, but even to find it on tablets from Vindolanda. It is [here](#), but it is very different from the other lettering. I had to change the appearance of the letter and adjust it to the general character of the font [10](#).



Figure 10: Letter D from tablet and from the fontface.

Letters U and V are the same.

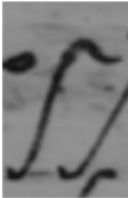

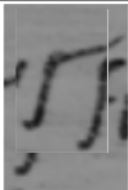

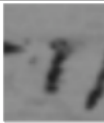
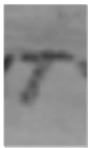





r		
s		
t	 	
u	  	

Figure 11: Letters from tablet and from the fontface. 3/3

The letters x and y are very rare, I have not been able to find them on Vindolanda plates. But I was able to find one use of the letter x [12](#). They all came into the Latin alphabet from the Greek alphabet, and letters in Vindolanda did not need scholarly Greek words. Letters were used to solve everyday problems there.



Figure 12: Letter X from tablet and from the fontface.

Kerning

Not only should the letters be similar to the original writing, they should also look good next to each other, without leaving gaps or overlapping. Kerning is used for this purpose. The appearance of the letters is different from the usual ones, so regular kerning pairs could not be used.

The following letter combinations require kerning:

1. E
 - a. O
 - b. L
 - c. R
 - d. N
 - e. S
2. F
 - a. O
 - b. M
 - c. C
 - d. S
 - e. V
 - i. U
 - f. I
 - g. G
3. R
 - a. O
 - b. A
 - c. I
 - d. E
 - e. V
 - i. U
 - f. M
 - g. N

- h. Q
- i. D
- 4. C
 - a. O
 - b. L
 - c. I
 - d. N
 - e. M
 - f. V
 - i. U
 - ii. W
 - g. R
 - h. S Also K, L, I and others need kerning.

Examples

Typically, fonts are demonstrated using pangrams. But is there a pangram for Latin? This is a bit of a complicated question, internet users try to answer it [here](#). Let's take advantage of their findings [13](#).

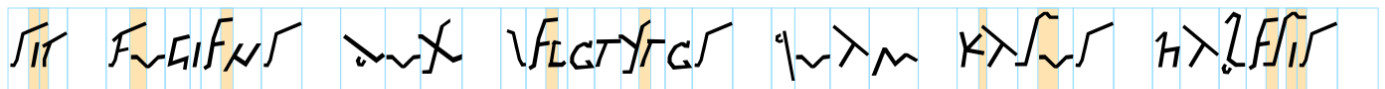


Figure 13: Latin pangram. Sic fugiens, dux, zelotypus quam Karus habetis.

The translation I see floating around the internet is odd, though: *Thus fleeing, O leader, you are regarded with jealousy like Karus.*

And one more [14](#).

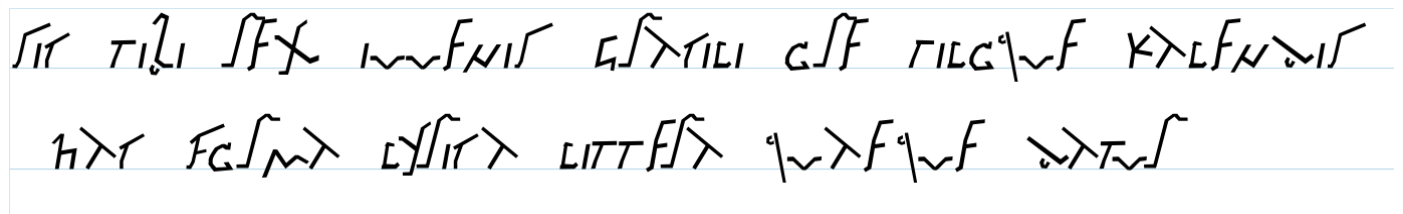


Figure 14: Latin pangram. Sic tibi rex iuvenis gracili ore piloque Kalendis / hac forma lyrica littera quaeque datur.

Free translation: *Young king with simple face and hair, this is how you are given every letter through this lyrical form on the first day of the month.*

Now let's try to type an original birthday invitation from Vindolanda's tablet [15](#). See original [here](#).

7L7~217 7F~7F7 7F71~177F 7~7F
 77L~7F7
 III 1~7 7F77F7~7F7 7G7G7 7~ 21F7
 7G77F7~7F7 777777F7 7F~7 7G7G
 717F77F7 777777 77 7F7777
 7~ 7G7 77777777F7 7777

Figure 15: Birthday Invitation of Sulpicia Lepidina.

Cyrillic

I have no idea what Cyrillic characters might look like in this font. The Slavs would not have a written language until 700 years later. Although there is a place in the Slavic area with similar soil features that allow ancient manuscripts to be preserved for archaeologists [4], the writing technique in Novgorod was different: in Vindolanda they wrote with ink on wooden tablets, while in Novgorod the letters were scratched into the bark of the tree [5]. Therefore, direct analogies in the appearance of letters are impossible. So it's all pure fantasy [16].

а	7	и	7	с	7	ъ	7
б	7	й	7	т	7	ы	7
в	7	к	7	у	7	ь	7
г	7	л	7	ф	7	э	7
д	7	м	7	х	7	ю	7
е	7	н	7	ц	7	я	7
ё	7	о	7	ч	7	ѣ	7
ж	7	п	7	ш	7		
з	7	р	7	щ	7		

Figure 16: Fantasy Cyrillic.

B in the mirror image of Б, Г goes back to C, as it has historically, Д is two mirrored G's, the other letters are simply drawn in single sharp strokes.

License and terms of use

i License and terms of use

Vindolanda is absolutely *free and open*. Moreover, you can not only use the font (including for commercial purposes), but also work with the sources and modify it.

Download

- OTF file
- TTF file

Source project

The font is made in [Glyphr studio](#). You can [download the project sources](#) and work with them yourself.

Acknowledgements

I am grateful to Maria Timoschuk, who introduced me to the Vindolanda tablets, and who supports me in my interest in Latin.

My other fonts

A [18cent](#) A typeface based on a historical typeface used in 18th century typography, but was sought after as an illustration of brokenness and lack of mental balance in the credits of a movie about [Tchaikovsky's wife](#).

A [Font and writing system for a constructed language for the birthday of M. Daniel](#)

Bold text

Semi-bold text

Centered text

Right-aligned text

Italic text

Combined *italics* and **bold**

~~Strikethrough~~

[unicode superscripts](#)⁰¹²³⁴⁵⁶⁷⁸⁹

Putting each sentence on its own line has numerous benefits with regard to [editing](#) and [version control](#).

Line break without starting a new paragraph by putting two spaces at end of line.

Horizontal rule:

Citations

Citation by Wikidata ID [\[6\]](#).

Quotes and code

Code `in the middle` of normal text, aka `inline code`.



Figure 17: A vector `.svg` image loaded from GitHub. The parameter `sanitize=true` is necessary to properly load SVGs hosted via GitHub URLs. White background specified to serve as a backdrop for transparent sections of the image. Note that if you want to export to Word (`.docx`), you need to download the image and reference it locally (e.g. `content/images/vector.svg`) instead of using a URL.

Special

⚠ WARNING *The following features are only supported and intended for `.html` and `.pdf` exports. Journals are not likely to support them, and they may not display correctly when converted to other formats such as `.docx` .*

LINK STYLED AS A BUTTON

Adding arbitrary HTML attributes to an element using Pandoc's attribute syntax:

Manubot Manubot Manubot Manubot Manubot. Manubot Manubot Manubot Manubot.
Manubot Manubot Manubot. Manubot Manubot. Manubot.

Adding arbitrary HTML attributes to an element with the Manubot `attributes` plugin (more flexible than Pandoc's method in terms of which elements you can add attributes to):

Manubot Manubot Manubot Manubot Manubot. Manubot Manubot Manubot Manubot.
Manubot Manubot Manubot. Manubot Manubot. Manubot.

Available background colors for text, images, code, banners, etc:

white lightgrey grey darkgrey black lightred lightyellow lightgreen
lightblue lightpurple red orange yellow green blue purple

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