

LIBRE GRAPHICS MEETING 2018
SEVILLE, 26-30 APRIL

Variable Fonts

Dave Crossland

Updating

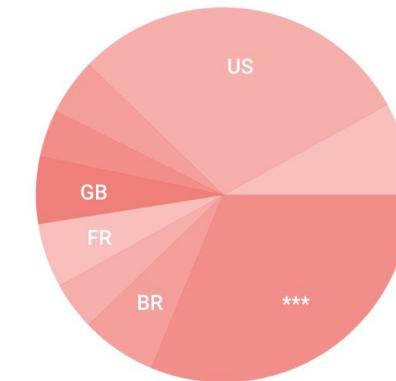
Montserrat



Thin
Thin Italic
Extra-Light
Extra-Light It
Light
Light Italic
Regular
Regular Italic
Medium
Medium Italic
Semi-Bold
Semi-Bold It

The spectacle before us was indeed sublime.

Apparently we had reached a great height in the atmosphere, for the sky was a dead black, and the stars had ceased to twinkle. By the same illusion which lifts the horizon of the sea to the level of the spectator on a hillside, the sable cloud beneath was dished out, and the car seemed to float in the middle of an immense dark sphere, whose upper half was strewn with silver. Looking down into the dark gulf below, I could see a ruddy light streaming through a rift in the clouds.



These are the countries where Montserrat is most popular.

4.36_B

Number of times Google Fonts API served Montserrat over the last week. Montserrat is featured in more than 5,000,000 websites.

BEFORE	AFTER
--------	-------

100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900

BEFORE	AFTER
--------	-------

100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900



danyj (Dan) on Nov 7, 2017 ◊

Original Poster



These are **not** subtle differences , everyone get ready for big changes , this is only 3 out of 200 designs we have to change

left side is old , right side is new

NIKE AIR
VAPORMAX
FLYKNIT

NIKE AIR
VAPORMAX
FLYKNIT



We made the choice of balancing out the weights. It took us several discussions and compromises.

[...] the important middleweights Light, Regular and SemiBold have shifted one weight. This can easily be changed in API or CSS.

@Fonthausen THIS IS THE WHOLE F*ING POINT.

You know, at first I just took this for an oversight of the impact of this change. Negligent but no more. But it seems you and your team were well aware this was a breaking change (requiring action to fix), and still chose this path. This, frankly, is insulting.

Now, I don't mean this as a personal attack, I respect you, you are obviously a very talented typographer. But judging from your comments, I dare to guess you are not a developer with client websites or applications in production — nor is anyone in the Google team. There is a serious disconnect from reality here.



1





brgrz (mare) on Nov 7 • edited



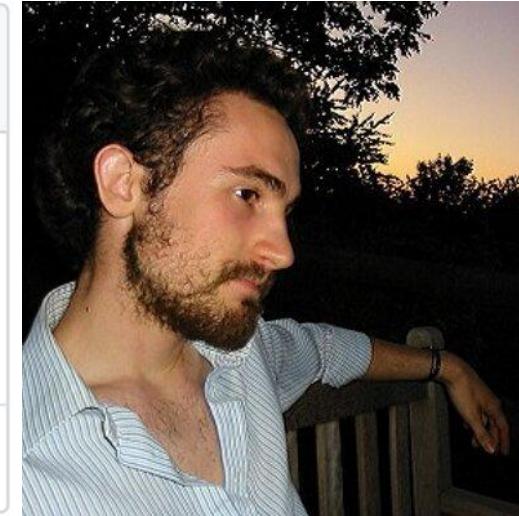
@danyj the way he sits on his profile photo and the scripture "I work at Google on fonts." pretty much tells you he doesn't give a f █



1



19



Libre Graphics Meeting

Lyon, France 17 - 18 - 19th

March 2006

libregraphicsmeeting.org/2006

Montserrat



The old posters and signs in the traditional Montserrat neighborhood of Buenos Aires inspired Julieta Ulanovsky to design this typeface and rescue the beauty of urban typography that emerged in the first half of the twentieth century.

As urban development changes that place, it will never return to its original form and loses forever the designs that are so special and unique. The letters that inspired this project have work, dedication, care, color, contrast, light and life, day and night! These are the types that make the city look so beautiful. The Montserrat Project began with the idea to rescue what is in Montserrat and set it free under a [libre](#) license, the SIL Open Font License.

e

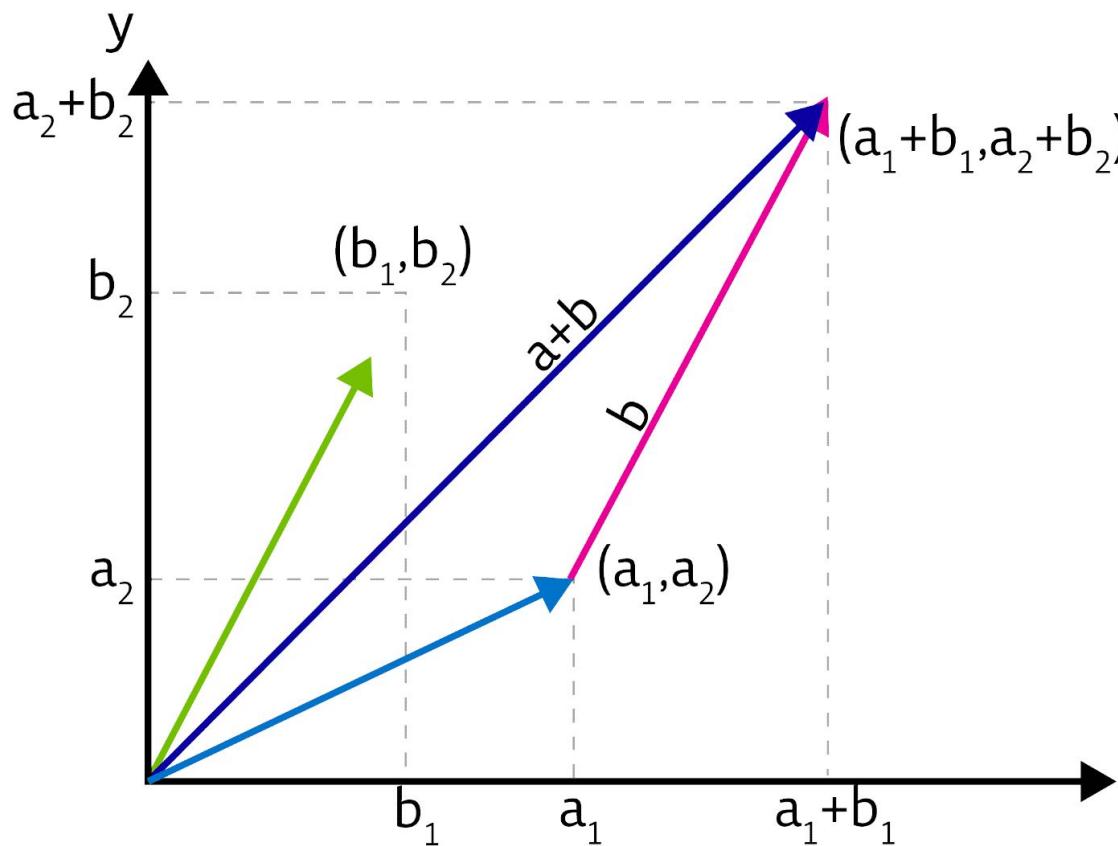
Adobe “Multiple Master” Model

monotype.com/resources/articles/part-1-from-truetype-gx-to-variable-fonts

e

Apple “GX” Model

monotype.com/resources/articles/part-1-from-truetype-gx-to-variable-fonts



Apple “GX” Model

monotype.com/resources/articles/part-1-from-truetype-gx-to-variable-fonts



googlei18n / noto-source X

[Code](#)[Issues 13](#)[Pull requests 0](#)[Wiki](#)[Releases 0](#)[More ▾](#)[493 commits](#)[4 branches](#)[0 releases](#)[14 contributors](#)[Apache-2.0](#)

Branch: master ▾

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 marekjez86 Merge pull request #118 from anthrotype/drop-mm-suffix ...

Latest commit 4da80f0 19 days ago ▾

 images	Add readme, license, contributing files	3 years ago
 scripts	Update fontmake to v1.4.0	3 months ago
 src	Drop '-MM' suffix from NotoNastaliqUrdu as it's not interpolatable	19 days ago
 test	Update hi-988.html	a month ago
 .gitignore	Tell git to not ignore GlyphData.xml files	a year ago
 .gitmodules	Rename Lib directory to scripts	a year ago
 .travis.yml	[ci] Do setup as part of build script	a year ago
 CONTRIBUTING.md	Update CONTRIBUTING.md	2 years ago
 LICENSE	Add Apache license for scripts	3 years ago
 README.md	Add variable font targets to build script	a year ago
 build	[build] remove global `set -e`; conflicts with "force" option	8 months ago
 build_merged_noto.py	build_merged_noto: use 'in' to check substrings instead of s.find('x'...)	a month ago

github.com/googlei18n/noto-source

[googlei18n / fontmake ✓](#)[Unwatch](#) 46 [Star](#) 261 [Fork](#) 49[Code](#)[Issues 80](#)[Pull requests 3](#)[Wiki](#)[Releases 11](#)[More ▾](#)

Compile fonts from sources (UFO, Glyphs) to binary (OpenType, TrueType).

[496 commits](#)[5 branches](#)[11 releases](#)[11 contributors](#)[Apache-2.0](#)Branch: [master ▾](#)[v1.4.0](#)[Create new file](#)[Find file](#)[Clone or download ▾](#) [anthropy Merge pull request #423 from anthropytype/tmp-dirs ...](#)

Latest commit 73284f9 3 days ago ▾

 [Lib/fontmake](#)

use @contextmanager to clean up temp dirs

3 days ago

 [test](#)

Revert "Use uppercase 'Weight' as axis name"

26 days ago

 [.gitignore](#)

Tell git to ignore *.egg, *.eggs, .tox and .cache

a year ago

 [.pyup.yml](#)

add .pyup.yml; schedule the pyup.io bot updates on weekly basis

a year ago

 [.travis.yml](#)

[travis] use python 3.6 instead of 3.5 as the default python 3

a year ago

 [CONTRIBUTING.md](#)

Add contributing and readme files

3 years ago

 [LICENSE](#)

Add license

3 years ago

 [MANIFEST.in](#)

add MANIFEST.in for sdist

a year ago

 [README.rst](#)

Fix typo in installation instructions

8 months ago

 [dev_requirements.txt](#)

Update location of fonttools in dev_requirements.txt

a year ago

 [requirements.txt](#)

setup.py: bump cu2qu requirement to 1.5

3 days ago

github.com/googlei18n/fontmake

As technology advancement is critical to the long-term success of the type industry, Monotype is thrilled to have played a role in development of OpenType Font Variations. This important technology will allow us to improve the value of type solutions we can offer to type designers, partners and customers.

Monotype

As a pioneer developer of Apple's GX variations in the 1990's, Font Bureau is delighted to be working with Type Network and its foundry partners to support the new OpenType Font Variations standards.

David Berlow, Font Bureau



DECOPAR

fontbureau.typenetwork.com

Amstelvar Alpha

fontbureau.typenetwork.com

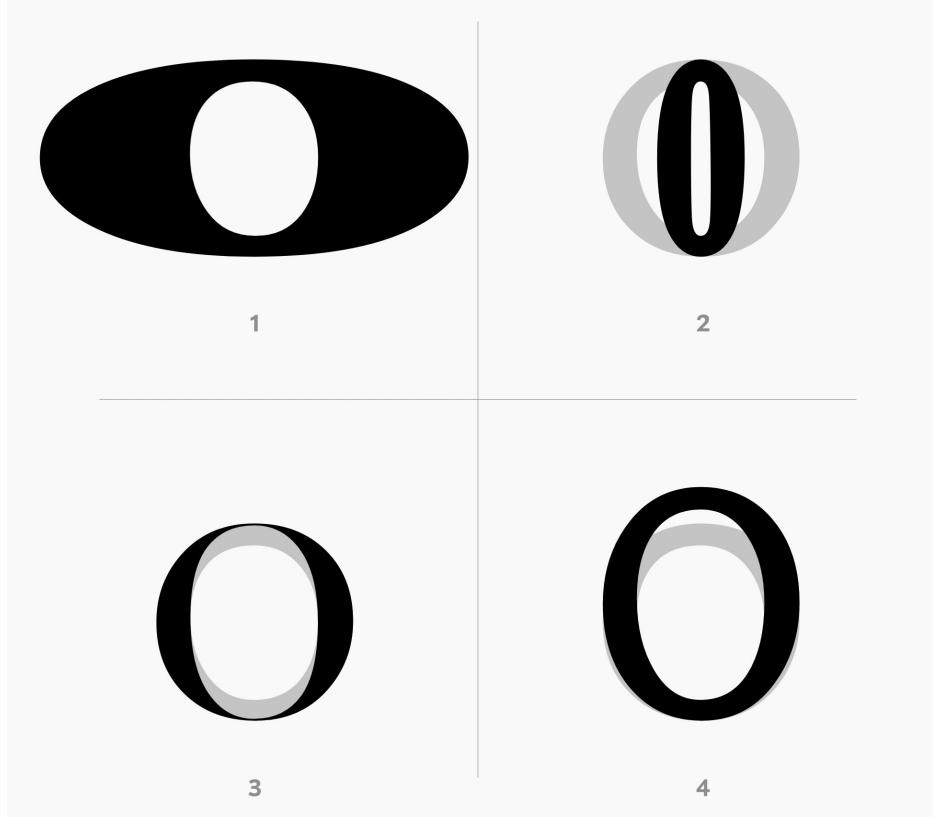
Optical Size



[github.com/TypeNetwork/Opentype-1.8-Axis-Proposal](https://github.com>TypeNetwork/Opentype-1.8-Axis-Proposal)

Grade

Johannes Gutenberg's work on the printing press began in approximately 1436 when he partnered with Andreas Heilmann, owner of a paper mill. Having previously worked as a goldsmith, Gutenberg made skillful use of the knowledge of metals he had learned as a craftsman. He was the first to make type from an alloy of lead, tin, and antimony, which was critical for producing durable type that produced high-quality printed books and proved to be much better suited for printing than all other known materials.



typenetwork.com/brochure/opentype-variable-fonts-moving-right-along

▼ A. PRIMARY TYPE AXES

- 1. xtra
- 2. xopq
- 3. ytra
- 4. yopq
- 5. ytc
- 6. ytuc
- 7. ytdc
- 8. ytas
- 9. xtab
- 10. vrot

▼ B. TREATMENT AXES

- 11. udln
- 12. shdw
- 13. refl
- 14. otn
- 15. engr
- 16. embo

▼ C. NON-LATIN AXES

- 17. ytch
- 18. xtch

▼ D. MOTION AXES

- 19. rxad
- 20. ryad
- 21. rsec

▼ E. GLYPH AXES

- 22. vuid
- 23. votf

2. xopq

Tag: xopq

Name: x opaque

Description: assigns a "black" per mille value to each instance of the design space

Valid numeric range: Values must be in the range -1000 to 2000

Scale interpretation: Values can be interpreted as per-mille-of-em

Recommended "normal" value: Sample value 88

Suggested programmatic interactions: Applications may choose to select a variant in connection to an input or it might be programmatically used

Suggested user interactions: Users may choose to program a variant in connection to direct or conjunctive input for a page description language, or via a user interface

Demo



3. ytra

Tag: ytra

Name: y transparent

Description: assigns an overall "white" per mille value to each instance

Valid numeric range: Values must be in the range 0 to 2000

Scale interpretation: Values can be interpreted as per-mille-of-em

Recommended "normal" value: Sample value 884

Suggested programmatic interactions: Applications may choose to select a variant in connection to an input, or it might be programmatically used

Suggested user interactions: Users may choose to program a variant in connection to direct or conjunctive input for a page description language, or via a user interface

[Microsoft / OpenTypeDesignVariationAxisTags](#)[Unwatch](#) 37[Unstar](#) 17[Fork](#) 9[Code](#)[Issues 10](#)[Pull requests 0](#)[Wiki](#)[Releases 0](#)[More ▾](#)

Branch: master ▾

[Find file](#) [Copy path](#)[OpenTypeDesignVariationAxisTags / Proposals / TypeNetwork_ParametricAxes / Overview.md](#)

chriSSam42 Add Type Network Parametric Axes proposal (#21)

d9d37e8 on Dec 18, 2017

1 contributor

82 lines (43 sloc) | 9.3 KB

[Raw](#) [Blame](#) [History](#)

Type Network Parametric Axes Proposal Overview

Administrative Information

Proposers name: Sam Berlow**Vendor affiliation:** Type Network**Proposal name:** Type Network Parametric Axes**Date of submission:** 12/15/2017**New or revised proposal:** New

github.com/Microsoft/OpenTypeDesignVariationAxisTags

Amstelvar Alpha

[github.com/TypeNetwork/Amstelvar](https://github.com>TypeNetwork/Amstelvar)

Amstelvar

[github.com/TypeNetwork/Amstelvar](https://github.com>TypeNetwork/Amstelvar)

Amstelvar *with Italic*

[github.com/TypeNetwork/Amstelvar](https://github.com>TypeNetwork/Amstelvar)

variablefonts.typenetwork.com

Source Code Variable:

Weight: 200  900

The variable version of Adobe's [Source Code Pro](#). It comes bundled with Creative Cloud apps and is also available as an open source font.

Design: Paul D. Hunt
Publisher: Adobe Systems Inc.
Characters: Latin, Greek, Cyrillic
Licensing: Open source, Bundled
Info/fonts: [github.com](#)

Source Code Variable

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
0123456789

Source Code Variable Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
0123456789

Source Sans Variable:

Weight: 200  900

The variable version of Adobe's [Source Sans Pro](#). It comes bundled with Creative Cloud apps and is also available as an open source font.

Design: Paul D. Hunt
Publisher: Adobe Systems Inc.
Characters: Latin, Greek, Cyrillic
Licensing: Open source, Bundled
Info/fonts: [github.com](#)

Source Sans Variable

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789

Source Sans Variable Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789

Source Serif Variable:

Weight: 200  900

The variable version of Adobe's [Source Serif Pro](#). It comes bundled with Creative

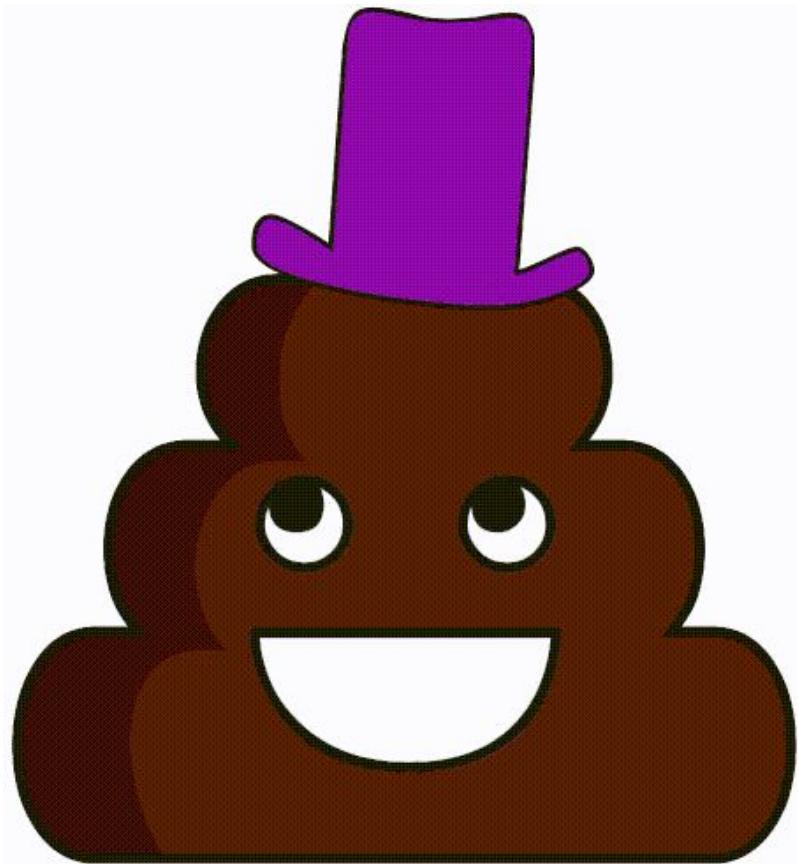
ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz



trufont.github.io



inkscape.org



pixelambacht.nl/2017/variable-hover-effects

LibreGraphics

Meeting 2018