Font Bureau/Type Network-Varaible Fonts background material

An introduction to Roboto Extremo project plan finds Roboto Extremo described as a continuation of work done to begin the development of variable versions of Roboto, and research by Font Bureau on other fonts.

Brochures; typenetwork.com/brochure/opentype-font-variations/

On Decovar; www.typenetwork.com/brochure/decovar-a-decorative-variable-font-by-david-berlow#?

On Axes proposals; variationsguide.typenetwork.com

On Amstelvar and Decovar Alpha; typenetwork.com/brochure/opentype-variablefonts-moving-right-along/

On AmstelvarAlpha and RobotoDelta; variablefonts.typenetwork.com

Repositories; github.com/TypeNetwork/Opentype-1.8-Axis-Proposal github.com/TypeNetwork/Amstelvar github.com/TypeNetwork/Decovar github.com/TypeNetwork/Amstelvar/tree/ amstelvar-alpha

Proofing tools; typetools.typenetwork.com videoproof.typenetwork.com

github.com/TypeNetwork/variable-type-tools

Variable font background sites











Roboto Ancestors

Background on Roboto "Classic"

The first Roboto variable font was a conglomeration of the .ttfs that existed into a design space that contained the original styles and everything in between. The second variable font only contained the extreme ttfs of Roboto, [2], interpolating the other original styles and containing the family in a smaller file. This included a slight extension of the design space, as the original .ttfs were just missing one extreme to have more complete condensed style in the design space.

github.com/TypeNetwork/Roboto/blob/master/fonts/Roboto-VF.ttf

github.com/TypeNetwork/Roboto/blob/master/fonts/Roboto-min-VF hinted.ttf

(This "min" version is currently under development being rehinted by another party.)

Roboto Delta began the experimentation on a Roboto that went beyond the original design space of the family. Following the design of Amstelvar, which contained weight, width, optical size axis and 11 parametric axes, Delta explored how that might apply to a san serif. It also brought out the need for a web app that allowed testing of basic variable font typography.

github.com/TypeNetwork/Roboto-Delta/blob/master/fonts/ RobotoDelta-VF.ttf

typetools.typenetwork.com/family/Roboto-Delta

Roboto Extremo became the current code name for a variable based on Roboto Regular, with an optical size axes, parametric axes, and weight and width axes that go as far as the Amstelvar design space, as applicable to a san serif design.

!"#\$%&'()*+,-./012345678 9:;<=>?@ABCDEFGHIJKL MNOPQRSTUVWXYZ[\]^_ `abcdefghijklmnopqrstuv wxyz{|}~

Font Bureau/Type Network-Varaible Fonts Project Sheet

Command Sheet –

Bringing together the deliverables (by number in column A), from the service agreement, to a schedule, and acting as the central tracking sheet for links to deliverables in the service agreement in (the circled column G).

docs.google.com/spreadsheets/d/1nECpQuJanbpzR8wT4h0oypOHdoiiq0Bl6xFt5OlpPDY/edit#gid=1246227689

Α	В	С	D	E	F	
	Deliverable Type	Project	Description	Start Date	End Date	Link to deliverable
					•	
6.1.1	Project Plan	Roboto	Develop a detailed project plan.	2019-10-15	2019-11-01	ktremo/issues/6
6.1.2	Concept	Roboto	Design a concept that extends the Latin design	2019-11-02	2019-11-14	
6.1.3	Presentation	Roboto	Presentation of the project	2019-11-15	2019-11-15	
6.2.1	Prototype	Roboto	Develop a prototype with all letters (28 upper, 28 lower) and numerals (10). Draw the design and build both variable and static binaries with fontmake	2019-11-16	2019-12-05	
6.1.3	Presentation	Roboto	Presentation of the project	2019-12-06	2019-12-07	
6.2.2	Basic	Roboto	Develop fonts with support for the Google Latin Core glyph set. Draw the design and build both variable and static binaries with fontmake. Export and mastering of source and binary files, with OpenType layout features (including kerning, anchor placement, and conjuncts), and quality assurance (QA) testing, for all Languages.	2019-12-08	2020-02-15	
6.1.3	Presentation	Roboto	Presentation of the project	2020-02-16	2020-02-18	
6.3.1	Full	Roboto	Develop fonts with support for the Google Latin Expert glyph set. Draw the design and build both variable and static binaries with fontmake. Export and mastering of source and binary files, with OpenType layout features (including kerning, anchor placement, and conjuncts), and quality assurance (QA) testing, for all Languages.	2020-02-19	2020-03-18	
6.1.3	Presentation	Roboto	Presentation of the project		2020-03-25	
6.4.1	Final	Roboto	Finalize the font family, including with hinting to improve text-rendering on screens	2020-03-26	2020-04-20	
6.5.0	Presentation	Roboto	Presentation of the final project	2020-04-21	2020-05-01	
6.1.1	Project Plan	Amstelvar	Develop a detailed project plan	2019-10-01	2019-10-28	
6.1.2	Concept	Amstelvar	Design a concept that extends the Latin design	Oct 29 2019	Nov 4 2019	
612	Presentation	Ametolyar	Presentation of the project	2010-11-05	2010-11-11	

Font Bureau/Type Network-Varaible Fonts Glyph Lists

The advancing glyph repertoire is one key element in plan (from ascii, to full Latin, to basic and then full Greek and Cyrillic).

The design concepts that are part of the Latin expansion include:

- the development of case-specific diacriticscomplete proportional and tabular figures
- and monetary symbolslocal consulation on correct diacritic design
- local consulation on correct diacritic design and positioning

This is being done on the Latin with one eye on the upcoming Greek and Cyrillic expansion to be sure to include any consideration of those scripts in the Latin expansion decisions.

Master List: docs.google.com/spreadsheets/d/ 1HQEKIFPT64_IYGfwYLrurSpxi0uM8JBQnVNsSp 359dg/edit?ts=5c13ffd1#gid=192368910 **Latin and extended Latin**

!"#\$%&'()*+,-./012345678 9:;<=>?@ABCDEFGHIJKL MNOPQRSTUVWXYZ[\]^_ `abcdefghijklmnopqrstuv wxyz{|}~

Greek and extended Greek

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣ ΤΥΦΧΨΩαβγδεζηθικλνξο πρςστυφχψωμ

ΗΟΑΆΒΓΔΕΈΖΗΉΘΙΊΪΚΛ ΜΝΞΟΌΠΡΣΤΥΥΫΦΧΨΩΏ οαάβγδεέζηήθιϊϊϊκλνξοό πρςστυΰϋύφχψωώ

Cyrillic and extended Cyrillic

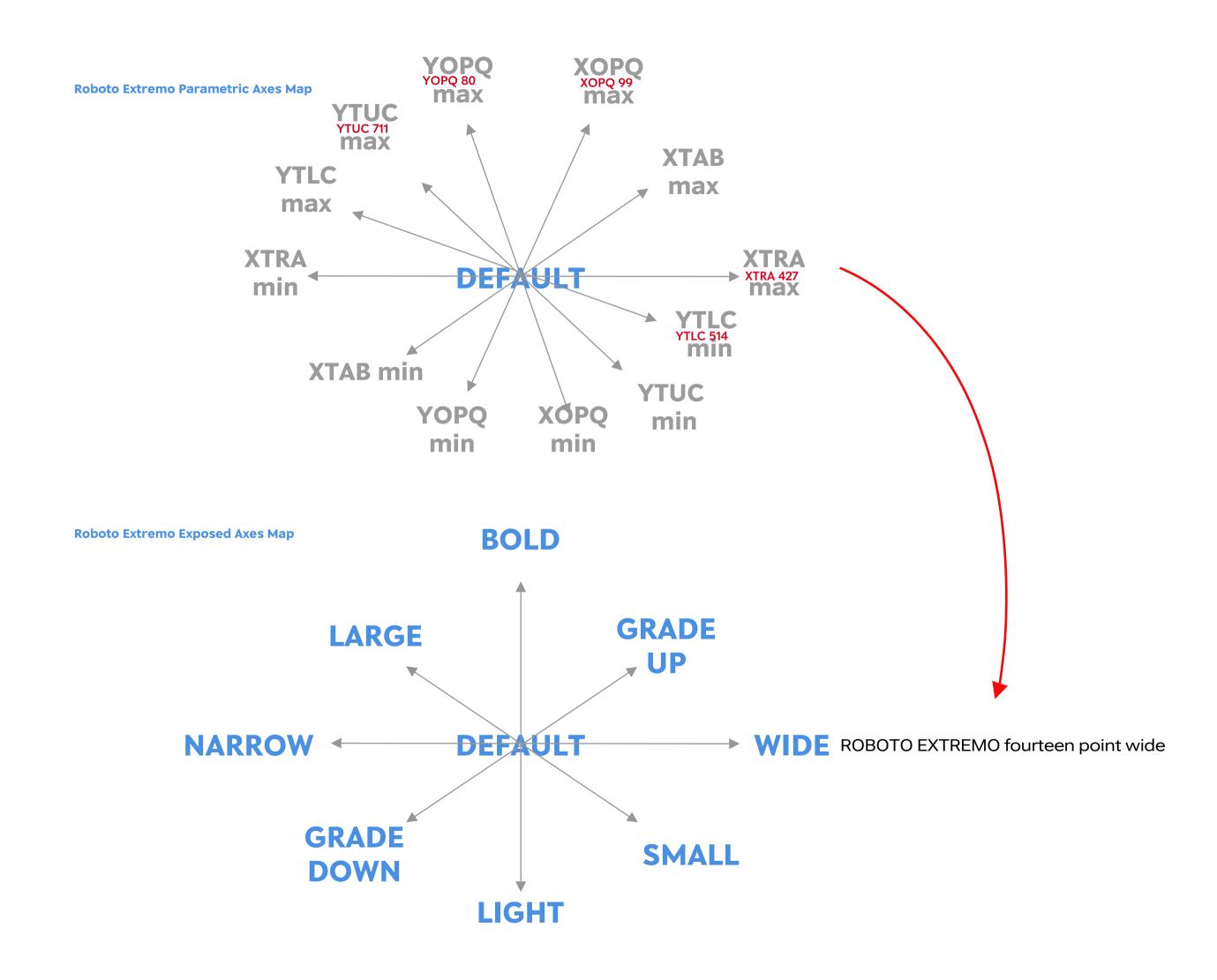
АБВГҐДЂЕЄЖЗЅИІЈКЛЉМН ЊОПРСТЋУФХЦЧЏШЩЪЫЬ ЭЮЯ

ÈЁЂЃЄЅІЇЈЉЊЋЌЍЎЏАБВГДЕЖЗИЙКЛМНОПР СТУФХЦЧШЩЪЫЬЭЮЯабвгдежзийклмнопрсту фхцчшщъыьэюяѐёђґєѕіїјљњћќѝўџҊҋѢҍҎҏҐґҒӻҔ ҕҖҗҘҙҚқҜҝҞҟҠҡҢӊҤҥҦҧҨҩҪҫҬҭҮүҰұҲҳҴҵ ҶҷҸҹҺһҼҽҾҿӀӁӂӃӄӅӆӇӈӉӊӋӌӍӎӀӐӑӒӓӔӕӖӗ ӘәӚӛӜӝӞӟӠӡӢӣӤӥӦӧѲѳӪӫӬӭӮӯӰӱӲӳӴӵӶӷӸӹQq ѠѡҴӆ

AXES IN Beta VF Roboto Axes map

The evolving design space is the other key element in progress, from a single master to parametric axes that are blended, (red values in top diagram), to form the extremes of the registered axes, (like the widest, as shown in the example formed in the bottom diagram).

Parametric axes will also be used to adjust the registered axes and their combinations as required. After these design uses, if the parametric axes are desired for use, a user or program can adjust them for purposes ranging from justification (XTRA), to linespacing adjustments (YTDE), and multiple parametric axes sued for adjusting Latin to other scripts.

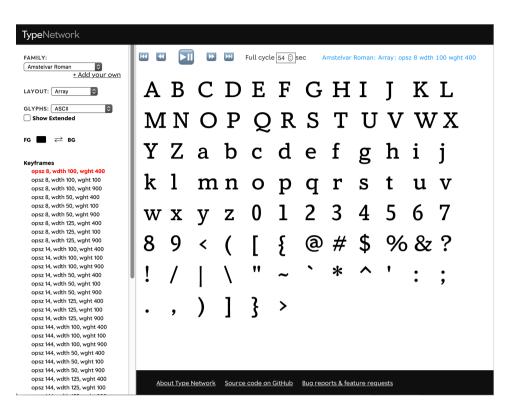


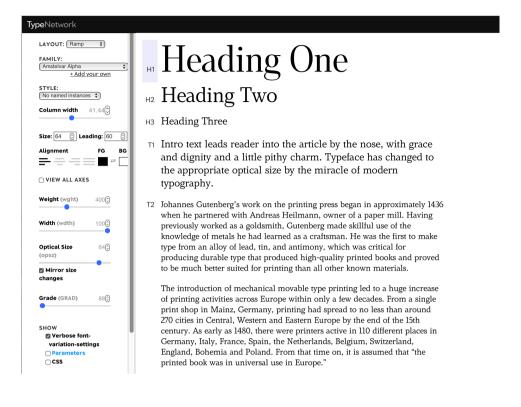
Testing tools

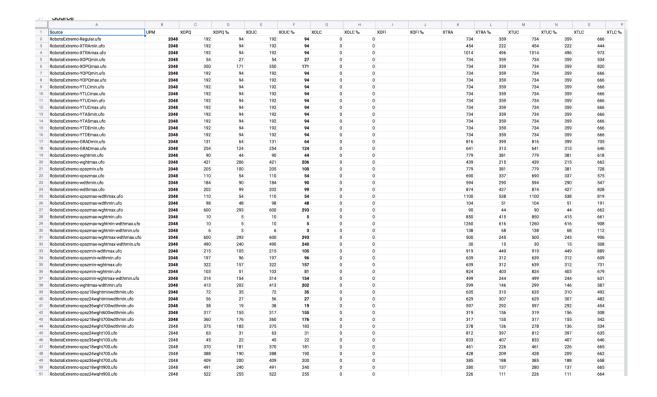
During initial variable developments no applications were available to do font testing for QA that then relied on the font tools for all quality. With Safari, Chrome and other browsers quickly adopting variables, FB developed Typetools (@typenetwork.com), to be able to compose text, navigate the design space and have interactive control over lines and blocks of text.

While still useful, the demand typetools placed on text coming from input, and the user experience and patience needed to manually navigate slides or supply numerical input to and between instances of interest within the variable design space, called for a new set of tools. So Videoproof was developed to include the use of more predefined text, the ability to display common subset of glyphs, and the use of video to allow the quick but thorough survey of predefined swaths of variable design space.

In software for Non-interactive use, we've developed a python script that uses a design space file and the index numbers of glyph contour points to generate a sheet containing the parametric values of a design space automatically. And we are working to scale glyph positioning data, (kerning), via python script.







Roboto Extremo Prototype Material

This project plan (repo issue #69, SA-6.1.1), along with other documents associated with deliveries, are on the Extremo repository. At right is shown thumbnails of the Presentation of the Prototype, (repo issue #70 6.1.3), currently in progress.

