

ROBOTO
EXTREMO
A Multi-purpose variable font

ROBOTO EXTREMO

This deck presents Roboto Extremo, the new version of the family with basic, intermediate and advanced variation capabilities.

Basics: Prototype Glyphs

!"#\$%&'()*+,-./
0123456789:;<=>?
@ABCDEFGHIJKLMNOPQRS
TUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz
mnopqrstuvwxyz{|}~

First, a limited ASCII ascii glyph was produced with the fullest range of functionality, to test performance, and the key type design quality questions raised by this sans-serif design.

Font Bureau Type Services

Basics: Current Glyphs

[illegible]

The current glyph set is the “Google Latin Plus” set, which has the essential Latin glyphs that supply a broad typographic pallet.

Basics: Final Glyphs

[illegible]

The final glyph set will contain, the extended glyph set required for Latin, Greek and Cyrillic .

Basics: Styles

ROBOTO

Classic styling

The old look and feel of
an existing popular
family the smaller
footprint for superior
performance

ROBOTO

Classic styling

ROBOTO

Extremo styling

The old look and feel of
an existing popular
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ROBOTO

Extremo styling

Extremo contains the same instances as Roboto, so it can be used to replace it with higher performance due to the smaller size of the family. It can also greatly simplify user interface experiences and increase design flexibility.

Font Bureau Type Services

Basics: Design Space

144 point

60 point

24 point

14 point

8 point

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

Aa Aa Aa

The style range gets wider, narrower, bolder and lighter as the optical size grows over the full range of sizes from 8 to 144, for a full range of styles at every size.

Basics: Design Space

144 point Basics: Design Space



The broadest range of style in 144 pt, contains the narrowest widths, 25% of the normal width, as well as the widest that are 151% of the normal width. These display sizes are more economical in space, as legibility is never challenged.

Basics: Design Space

144 opsz
144 point
400 weight

Aa Aa Aa Aa Aa Aa Aa

8 opsz
144 point
400 weight

Aa Aa Aa Aa Aa Aa Aa

8 opsz
8 point
25 styles

Aa Aa Aa Aa Aa
Aa Aa Aa Aa Aa
Aa Aa Aa Aa Aa
Aa Aa Aa Aa Aa
Aa Aa Aa Aa Aa

144 opsz
8 point
25 styles

Aa Aa Aa Aa Aa
Aa Aa Aa Aa Aa
Aa Aa Aa Aa Aa
Aa Aa Aa Aa Aa
Aa Aa Aa Aa Aa

The narrowest range of style in 8 pt, containing widths, 65% of the normal width, as well as the widest that are 120% of the normal width. These small text sizes are more legible, especially when compared to the 144 point designs at the same size

Basics: Design Space

Basics: Design Space

Far quick brown foxe
Sweep over the lazy sleeping o
Pack my bag with six dozen jugs of w
Jabbering boulevard strangers quizzed puzzled vis
Parking attendants worried when the zebras quite juggling the sleeping
Masterful planning before the trip enabled the client, a Quaker family to all the peace
Everyone knew that the particle accelerator would not function in zero gravity but planned the experimen
Practical application of the necessary variables created a greatly simplified hierarchy over the broad range of nutritional
The typical North American composition of text does not normally involve extensive testing for legibility a
Magnification of issues into unmanageable specifications, quietly but certainly, raised the price of everything they did,
FILE EDIT PRINT VIEW ARRANGE WINDOW PAGE MORE LESS STANDINGS STATISTICS SIGN IN LOG OU
This year's winning photograph from the south of England was taken on January 2 in Queen Anne's Park, South Chouldchester, between
ECUADOR EGYPT EL SALVADOR EQUATORIAL GUINEA ETHIOPIA FIJI FINLAND FRANCE GABON GAMBIA GEORGIA GERMANY AND MAS

When applied to a deep hierarchy of one style, Regular, over a range of sizes from 10 to 96, the stylistic distribution of variation over the Roboto Extremo's opsz and wght ranges of the design space, provide a consistent foundation on which to

Typical Practice: Using a range of weights at each size.

Roboto 12 Light Regular Medium and Bold

Bewildered boulevard strangers quizzed puzzled visitors on the way to the park where the band was going

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RobotoExtremo 12 Light Regular Medium and Bold

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Roboto 24 Light Regular Medium and Bold

Bewildered boulevard strangers quizzed puzzled visitors on the way to

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Bewildered boulevard strangers quizzed puzzled visitors on the way to

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RobotoExtremo 12 Light Regular Medium and Bold

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Once on a consistent foundation of Regular, users can safely switch among 4 weights, Light, Regular, Bold, Medium and Bold, at any size.

Typical Practice: Using a range of styles of each weight at a range of sizes

RobotoExtremo 12 Light (200), with its Italic, Bold and Bold Italic

Bewildered boulevard strangers quizzed puzzled visitors on the way to the park where the band was going

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RobotoExtremo 12 Regular (400), with its Italic, Bold and Bold Italic

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RobotoExtremo 24 Light (200), with its Italic, Bold and Bold Italic

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After a consistent set of weights provides the designer with the ability to define distinction of adjacent text objects, distinction within each text object for whatever other purposes is simplified. This gives the designer two distinct level of styling, one generally for navigation of the page, and the other generally under editorial influence.

Typical Practice: Using grades on styles of particular weights at a range of sizes

RobotoExtremo 12 Light (200), with its Italic, Bold and Bold Italic

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RobotoExtremo 12 Light (200), Dark Mode

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RobotoExtremo 12 Light (200), Dark Mode with Grade axes correction

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Control of thin weights in dark mode can also be applied with care over the range of sizes and weight to ensure comfortable reading.

Progress Brief:

Basics: Design Space

- ✓ Pilot a new process, (optical size masters first, parametrics second)
- ✓ Design a broader stylistic range than Roboto
- ✓ Define system of transitions along axes with intermediate masters
- ✓ Include visually backward-compatible Roboto replacement
- ✓ Expose useful parametric ranges to compliment the stylistic range
- ✓ Define Useful Parametric Ranges to compliment the stylistic range
- ✓ Collaborate on print and web specimen development
- ✓ Extend to Greek and Cyrillic

Piloting took nearly 18 months from just being able to draw the fonts required for variables, to producing stable reproducible scripted versions via repository. This allowed us to make a very broad range of styles in Extremo. But that also required a stable and effective set of proofing tools to see all the styles and all the sizes in actual use on the web and in print. Then another year passed before a fully functional end-user product, (Sketch), made possible the adjustments and comparison of the fourth item, a backward-compatible Roboto replacement.

ROBOTO EXTREMO

Testing now is underway on all Latin and extended glyphs for the axes shown in this presentation (wght, slnt, GRAD and opsz), as well as the width axes, (wdth). All of the capabilities in the font that are aimed at compression and simplified expression of complex typographic systems by the user, are now available.

The presentation continuing below is aimed at improved typography within paragraphs of texts in the Latin script, and in adjusting Latin to other scripts that don't have any parametric axes, among other things.

WITH GEORGIAN

არა ეს საქართველო, Athens ერთი ევროპასა
და აზიის მთებში. გაცილებით ძველია
გაერთიანებულ შტატებში, მაგრამ უფრო
მცირე მოსახლეობით. Nothing runs like a deer.

opsz 14, GRAD -0.26, YTAS 730, YTUC 668

WITH ARABIC

أَبَادَ اللَّهُ خَضِرَاءَهُمْ أَبْذِلْ لَصَدِيقِكَ دَمَكَ وَمَالَكَ أَتَكَلَّنَا مِنْهُ عَلَى خُصٍّ
الاتحاد قوة اتق شر الحليم اذا غضب اجتنب London & Wales
مصاحبة الكذاب فإن اضطررت إليه فلا تصدقه Hark, I hear a
voice speaking!

opsz 14, wght 314, XTRA 295, YTDE -135, YTAS 685, YTUC 661, YTLC 416

WITH HEBREW

לעולם יירשו ארץ, נצר מטעי מעשה ידי להתפאר. א.
ליהושעכל Paris משה קיבל תורה מסיני ומסרה
ישראל יש להם חלק לעולם הבא, שנאמר ועמך כולם
צדיקים. Challenging times at Ridgemont High.

opsz 14, wght 387, wdth 97, YTDE -205, YTAS 740, YTUC 624, YTLC 483

WITH CHINESE

我的征途是星辰大海 My Conquest is the Sea of
Stars, a famous sentence in Legend Of The
Galactic Heroes. 很久很久以前, 在一个遥远的星
系 A long time ago in a galaxy far, far away.

Improved Justification with XTRA

YOPQ 50; CW 41; LH 1.18

I remembered the case well, for it was one in which Holmes had taken an interest on account of the peculiar ferocity of the crime and the wanton brutality which had marked the actions of the assassin. The commutation of his death sentence had been due to some doubts as to his complete sanity, so atrocious was his conduct. Our wagonette had topped a rise and in front of us rose the huge expanse of the moor, mottled with gnarled and craggy cairns and tors. A cold wind swept down from it and set us shivering. Somewhere there, on that desolate plain, was lurking this fiendish man, hiding in a burrow like a wild beast, his heart full of malignancy against the whole race which had cast him out. It needed but this to complete the grim suggestiveness of the barren waste, the chilling wind, and the darkling sky. Even Baskerville fell silent and

WS 42

WS 473

WS 138

WS 152

WS 804

WS 18

WS 413

WS 304

WS 127

WS 452

WS 143

WS 42

WS 557

WS 27

WS 42

WS 339

WS 48

WS 439

WS 446

WS 170

YOPQ 50; CW 43; LH 1.18

I remembered the case well, for it was one in which Holmes had taken an interest on account of the peculiar ferocity of the crime and the wanton brutality which had marked the actions of the assassin. The commutation of his death sentence had been due to some doubts as to his complete sanity, so atrocious was his conduct. Our wagonette had topped a rise and in front of us rose the huge expanse of the moor, mottled with gnarled and craggy cairns and tors. A cold wind swept down from it and set us shivering. Somewhere there, on that desolate plain, was lurking this fiendish man, hiding in a burrow like a wild beast, his heart full of malignancy against the whole race which had cast him out. It needed but this to complete the grim suggestiveness of the barren waste, the chilling wind, and the darkling sky. Even Baskerville fell silent and