

NEW MATERIAL DESIGN Text Scale WITH ROBOTO VF

SPEC INTRO

The latest Material Design ramp is a broad spectrum of 15 sizes, from which a series of sizes are to be selected for three, (or more?) viewport sizes.

Link to specification here: <https://m3.material.io/styles/typography/overview>

Paying particular attention to the excellent quote from the link above, and the section "Customizing the typeface".

"Sizes on the rendered type scale should aim to provide impactful contrast between sizes by avoiding small differences."

This advice is the tale of much of user's choices of styles within the design space. This advice on size selection, though only 1/2 of that which can easily be given, can be seen in good typography.

There should be small size steps in the small range of font sizes, and larger steps in the large of size range. In weight, there should be larger steps in smaller sizes and there can be smaller steps in larger sizes. In width, small steps can be used in small sizes, and large steps are best in larger sizes.

ROBOTO DELTA VF 5 sizes of three ranges and emphasized with opsz

Display L **Display L**
Headline L Headline L

Title L Title L
Body L Body L
Label L Label L

Display M **Display M**
Headline L Headline L

Title L Title L
Body L Body L
Label L Label L

Display S **Display S**
Headline S Headline S

Title S Title S
Body S Body S
Label S Label S

ROBOTO DELTA VF % change of one range between sizes.

Original display on top, headline below

Daring charter value
Orientations inspired by recognition tokens

Headline condensed to wght 85

Daring charter value
Orientations inspired by recognition tokens

Display extended to wght 107

Daring charter value
Orientations inspired by recognition tokens

Display condensed to wght 85

Daring charter value
Orientations inspired by recognition tokens

Display emphasized condensed to wght 60

Daring charter value
Orientations inspired by recognition tokens

Display emphasized condensed to wght 50

Daring charter value
Orientations inspired by recognition tokens

Display emphasized condensed to wght 40

Meaningful vocation
Meaningful vocation

wght 480

Property taxes due on receipt of payment for our services

wght 500

Property taxes due on receipt of payment for our services

wght 480

Sufficient funding was appropriated in the first fiscal year for a program

wght 500

Sufficient funding was appropriated in the first fiscal year for a program

wght 480

PLAY RECORD FILE BALANCE EXIT PHONE MESSAGE CALL FLAG MARK RESEND CROP DELETED

wght 500

PLAY RECORD FILE BALANCE EXIT PHONE MESSAGE CALL FLAG MARK RESEND CROP DELETED

wght 700

PLAY RECORD FILE BALANCE EXIT PHONE MESSAGE CALL FLAG MARK RESEND CROP DELETED

OPTICAL SIZE COMPARE

ROBOTO DELTA VF % change between sizes of one range (L no opsz, R opsz)

Display L **Display L**

Headline L

Title L

Body L

Label L

Label L

wght200
auto opsz

144

Heroes of the
ages of bronze,
iron and steel

eyeball200
no opsz

24

Heroes of the
age of bronze,
iron and steel

opsz 18

8

Heroes of the
ages of bronze,
iron and steel

opsz 144

144

Heroes of the
ages of bronze,
iron and steel
made mincing a new

wght200
auto opsz

144

Bond
linked

Heroes of the
ages of bronze,
iron and steel

opsz 18

8

Bond
linked

Heroes of the
ages of bronze,
iron and steel

opsz 8

144

Bond
linked

Heroes of the
ages of bronze,
iron and steel

opsz 144

144

Bond
linked

Heroes of the
ages of bronze,
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ROBOTO DELTA VF 5 sizes of three ranges and emphasized with opsz

Display L **Display L**

Headline L

Title L

Body L

Label L

SIMPLIFYING A MATERIAL DESIGN RAMP WITH ROBOTO *DELTA*

STEP 2

The existing Material Design ramp is recreated using RobotoExtremo.vf, the stylistically extended version of Roboto containing a smooth range styles covering the same locations as the original Roboto Truetype styles of the family. These original styles were determined to be good for size 14, and around that was added an optical size axis, (opsz), and a broader range of weights and widths.

This includes making the appearance of weight transition more smoothly over a range of sizes, without the need to change styles. So, all the sizes of this ramp are the regular weight, (400), and the regular width (100).

In addition, the use of the optical size axis reduces the need to negative track larger sizes, as tighter spacing is built in, and users will not notice a significant difference given the lengths of text at larger sizes. The only tracking done here is for the user's benefit, where plus tracking was transferred from the original ramp to the two "Body" sizes, where the untracked Extremo are best suited for print. Using the same tracking value on Extremo that Roboto had for online use 100%, makes the two identical in Body 1 and Body 2.

* The only other difference to note in the ramp comparison, is the use of all-caps in two styles of the ramp. The old ramp used letter spacing and weight change to improve the appearance. This is probably best accomplished with an OpenType feature, 'case' which allows glyph substitution of wider, bolder uppercase letters and realigns dashes and other punctuation best centered on Caps. Here, for demo purposes, I increased the GRAD axes, and letter-spaced the Regular.

ROBOTO DELTA.VF

wght400

Far quick brown foxes
Sweep over the lazy sleeping dogs
Pack my bag with six dozen jugs of wine
Jabbering boulevard strangers quizzed puzzled visitors on
Parking attendants worried when the zebras quite juggling the sleeping shepherd
Masterful planning before the trip enabled the client, a Quaker family to all the peace and quiet
Everyone knew that the particle accelerator would not function in zero gravity but planned the experiment nonetheless
Practical application of the necessary variables created a greatly simplified hierarchy over the broad range of nutritional requirements
The typical North American composition of text does not normally involve extensive testing for legibility at each size
Magnification of issues into unmanageable specifications, quietly but certainly, raised the price of everything they did, geometrically
FILE EDIT PRINT VIEW ARRANGE WINDOW PAGE MORE LESS STANDINGS STATISTICS SIGN IN LOG OUT YOU
This year's winning photograph from the south of England was taken on January 2 in Queen Anne's Park, South Chouldchester, between the M4 and M1

ECUADOR EGYPT EL SALVADOR EQUATORIAL GUINEA ETHIOPIA FIJI FINLAND FRANCE GABON GAMBIA GEORGIA GERMANY AND MASSACHUSETTS

Body 1 The typical North American composition of text does not normally involve extensive testing for legibility at each size Magnification of issues into unmanageable specifications, quietly but certainly, raised the price of everything they did, geometrically. This year's winning photograph from the south of England was taken on January 2 in Queen Anne's Park, South Chouldchester, between the M4 and M1. Practical application of the necessary variables created a greatly simplified hierarchy over the broad range of 2020 nutritional requirements.

Body 2 The typical North American composition of text does not normally involve extensive testing for legibility at each size Magnification of issues into unmanageable specifications, quietly but certainly, raised the price of everything they did, geometrically. This year's winning photograph from the south of England was taken on January 2 in Queen Anne's Park, South Chouldchester, between the M4 and M1. Practical application of the necessary variables created a greatly simplified hierarchy over the broad range of 2020 nutritional requirements.

Caption This year's winning photograph from the south of England was taken on January 2 in Queen Anne's Park, South Chouldchester, between the M4 and M1

Headline 1
Headline 2
Headline 3
Headline 4

Headline 5

Headline 6

Subtitle 1

Subtitle 2

Body 1

Body 2

BUTTON

Caption

OVERLINE

ROBOTO.VF

Mixed Styles

Far quick brown fox
Sweep over the lazy sleeping dog
Pack my bag with six dozen jugs of wine
Jabbering boulevard strangers quizzed puzzled visitors

Parking attendants worried when the zebras quite juggling the sleeping shepherd

Masterful planning before the trip enabled the client, a Quaker family to all the peace and quiet

Everyone knew that the particle accelerator would not function in zero gravity but planned the experiment nonetheless

Practical application of the necessary variables created a greatly simplified hierarchy over the broad range of nutritional requirements

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Scale Category	Typeface	Font	Size	Fea Case	Letter spacing
H1	RobotoExtremo	Regular	96	Sentence	0
H2	RobotoExtremo	Regular	60	Sentence	0
H3	RobotoExtremo	Regular	48	Sentence	0
H4	RobotoExtremo	Regular	34	Sentence	0
H5	RobotoExtremo	Regular	24	Sentence	0
H6	RobotoExtremo	Regular	20	Sentence	0
Subtitle 1	RobotoExtremo	Regular	16	Sentence	0
Subtitle 2	RobotoExtremo	Regular	14	Sentence	0
Body 1	RobotoExtremo	Regular	16	Sentence	.5
Body 2	RobotoExtremo	Regular	14	Sentence	.25
BUTTON	RobotoExtremo	Regular	14	Case*	0
Caption	RobotoExtremo	Regular	12	Sentence	0
OVERLINE	RobotoExtremo	Regular	10	Case*	0

STEP 2

continued

ROBOTOEXTREMO.VF

ALL MEDIUM

Far quick brown foxes
Sweep over the lazy sleeping dogs

Pack my bag with six dozen jugs of wine
Jabbering boulevard strangers quizzed puzzled visitors on

Parking attendants worried when the zebras quite juggling the sleeping shepherd

Masterful planning before the trip enabled the client, a Quaker family to all the peace and quiet

Everyone knew that the particle accelerator would not function in zero gravity but planned the experiment nonetheless

Practical application of the necessary variables created a greatly simplified hierarchy over the broad range of nutritional requirements

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ROBOTOEXTREMO.VF

ALL BOLD

Far quick brown fox
Sweeps over the sleeping dogs

Pack my bag with 6 dozen jugs of wine
Jabbering boulevard stranger quizzes puzzled visitors

Parking attendants worried when the zebras quite juggling the sleepy sheep

Masterful planning on the trip enabled the client, a Quaker family to all the peace and quiet

Everyone knew the particle accelerator would not function in zero gravity but planned the experiment nonetheless

Practical application of the all our necessary variables, create a simpler hierarchy, over a broad range of nutritional requirements

The typical American composition of text does not normally involve extensive testing for legibility at all small sizes

Magnification of issues of unmanageable specifications, quietly but certainly, raise the price of everything done non-geometrically

FILE EDIT PRINT VIEW ARRANGE WINDOW PAGE MORE LESS STANDINGS STATISTICS SIGN IN LOG OUT YOU

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Headline 1
Headline 2

Headline 3
Headline 4

Headline 5

Headline 6

Subtitle 1

Subtitle 2

Body 1

Body 2

BUTTON

Caption

OVERLINE

Scale Category	Typeface	Font	Size	Fea Case	Letter spacing
D1	RobotoDelta	Regular	96	Sentence	0
H1a	RobotoDelta	Regular	60	Sentence	0
H1b	RobotoDelta	Regular	48	Sentence	0
T1	RobotoDelta	Regular	34	Sentence	0
C1	RobotoDelta	Regular	24	Sentence	0

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Headline 2
Headline 3

Headline 4

Headline 5

Headline 6

Subtitle 1

Subtitle 2

Body 1

Body 2

BUTTON

Caption

OVERLINE

Scale Category	Typeface	Font	Size	Fea Case	Letter spacing
D2	RobotoDelta	Medium	96	Sentence	0
H2a	RobotoDelta	Medium	60	Sentence	0
H2b	RobotoDelta	Medium	48	Sentence	0
T2	RobotoDelta	Medium	34	Sentence	0
C2	RobotoDelta	Medium	24	Sentence	0

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D3	RobotoDelta	Medium	96	Sentence	0
H3a	RobotoDelta	Medium	60	Sentence	0
H3b	RobotoDelta	Medium	48	Sentence	0
T3	RobotoDelta	Medium	34	Sentence	0
C3	RobotoDelta	Medium	24	Sentence	0

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