

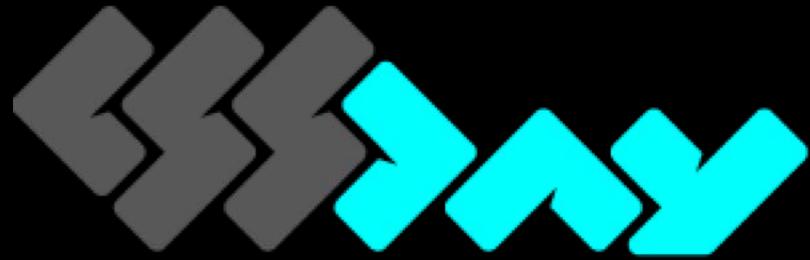
GIULIA LACO

VARIABLE FONTS

IL FUTURO DELLA TIPOGRAFIA È GIÀ COMINCIATO



15 marzo 2019 - FAENZA (RA)



#CSSday #CSSday19

MI PRESENTO



Sono una web designer/developer,
che ha iniziato con l'HTML 2.0, quindi in
epoca pre-CSS.

WEB TYPOGRAPHER / FONT STRATEGIST

- ➡ Web typography
- ➡ Font optimisation
- ➡ Typography strategy

Giulia Laco
[@webmatter_it](https://twitter.com/webmatter_it)

WebMatter.it  **TYPE STRATEGY**



VARIABLE FONTS

DEFINIZIONE



VARIABLE FONTS

PREMessa



DEFINIZIONI

TYPEFACE
Carattere tipografico

Roboto

TYPEFACE FAMILY

Famiglia di
caratteri tipografici

FONT
Singolo file

Styles

Type here to preview text

Thin
Thin Italic
Light
Light Italic
Regular
Regular Italic
Medium
Medium Italic
Bold
Bold Italic
Black
Black Italic



EVOLUZIONE

TYPE FAMILIES

Famiglie di caratteri tipografici

inizio **1500**

tondo vs. corsivo (*italic*) tipi
differenti

1700

prime famiglie di caratteri
(abbinamento del corsivo al tondo)

1900

abbiamo famiglie allargate
(*condensed, extended*)



TERMINOLOGIA

ITALIANO

STRETTISSIMO
STRETTO
NORMALE
LARGO
LARGHISSIMO

ENGLISH

larghezza carattere

COMPRESSED
CONDENSED
REGULAR OR MEDIUM
WIDE
EXTENDED

peso carattere

CHIARISSIMO
CHIARO
NORMALE
NERETTO
NERO
NERISSIMO

EXTRA LIGHT
LIGHT OR THIN
REGULAR OR MEDIUM
SEMIBOLD
BOLD
EXTRA BOLD OR BLACK

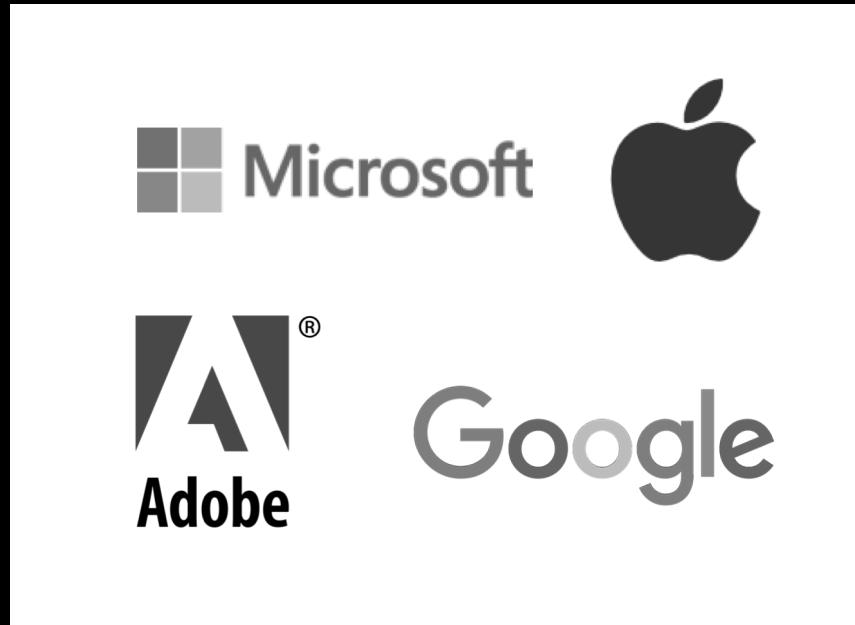


CHI HA VOLUTO I VARIABLE FONTS?



OpenType Font Variations

VARIABLE FONTS



ATypI, settembre 2016



SUPPORTO DEI BROWSER



SUPPORTO DEI BROWSER (FONTE CAN I USE)

VARIABLE FONTS

Marzo 2018



9,54%



SUPPORTO DEI BROWSER (FONTE CAN I USE)

VARIABLE FONTS

Ottobre 2018



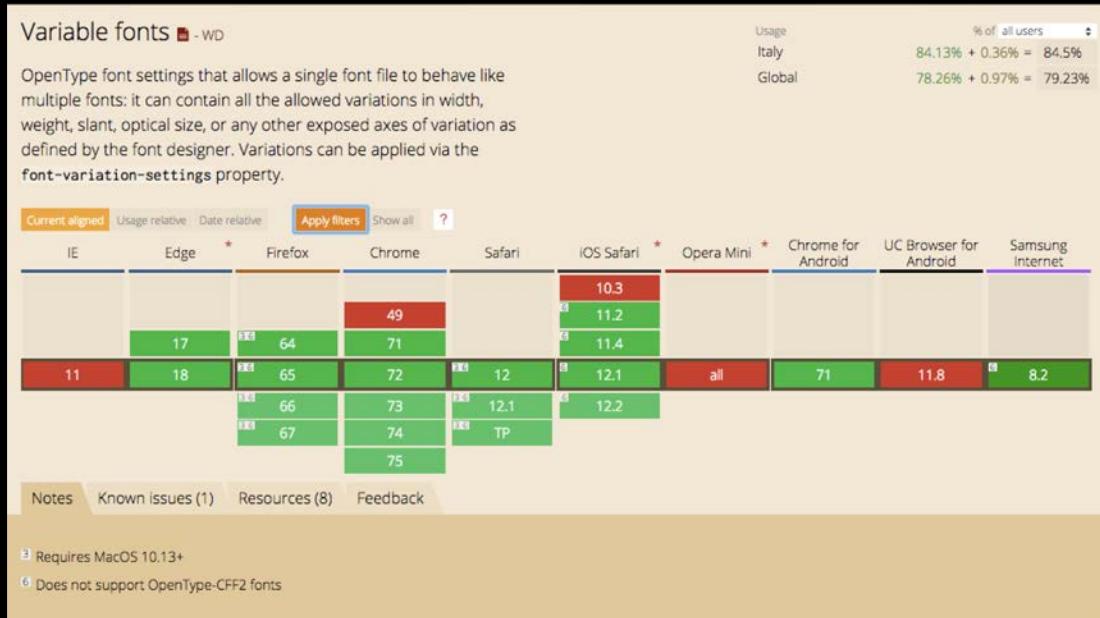
70,94%



SUPPORTO DEI BROWSER (FONTE CAN I USE)

VARIABLE FONTS

Marzo 2019



78,26%



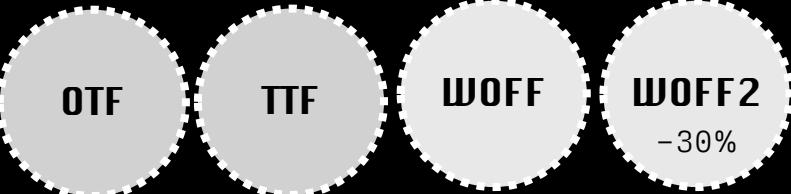
COS'È UN VARIABLE FONT?



DISTINZIONE

FONT STATICO

OpenType



FONT VARIABILE

OpenType 1.8
(con tabelle aggiuntive delle variazioni)



DEFINIZIONE

*Un font variabile è un singolo file di font
che si **comporta** come più font**

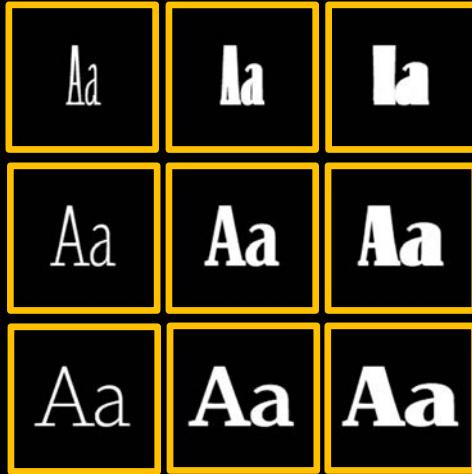
* «*A variable font is a single font file that **behaves** like multiple fonts.*»

—John Hudson, Sept. 2016

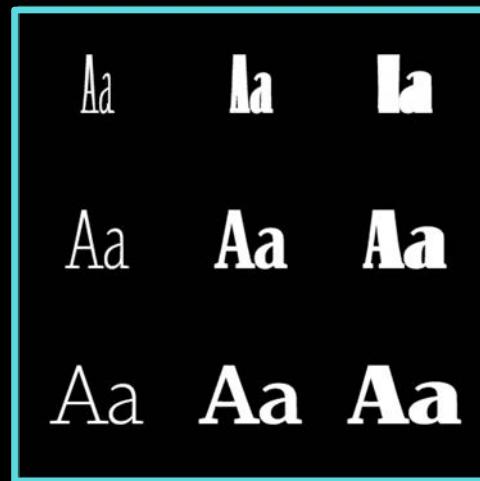


DIFFERENZE FILE

FONT STATICI



FONT VARIABILE



HT to Oliver Schöndorfer (<https://www.zeichenschatz.net/typografie/how-to-start-with-variable-fonts-on-the-web.html>)



DIFFERENZE FILE

FONT STATICI

Typeface Roman

Typeface Bold

Typeface Italic

Typeface Bold Italic

...

FONT VARIABILE

Typeface VF

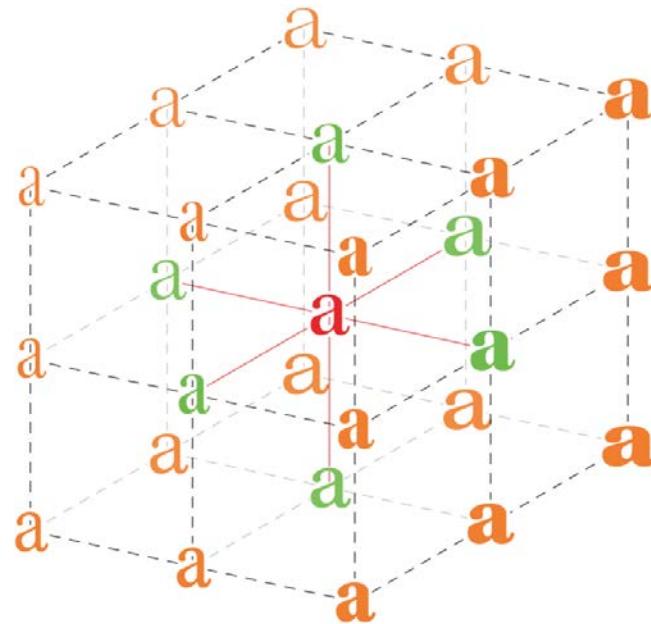
(*Typeface Italic VF*)



GLI ASSI DI VARIAZIONE



ASSI DI VARIAZIONE



<https://medium.com/variable-fonts/introducing-opentype-variable-fonts-12ba6cd2369>

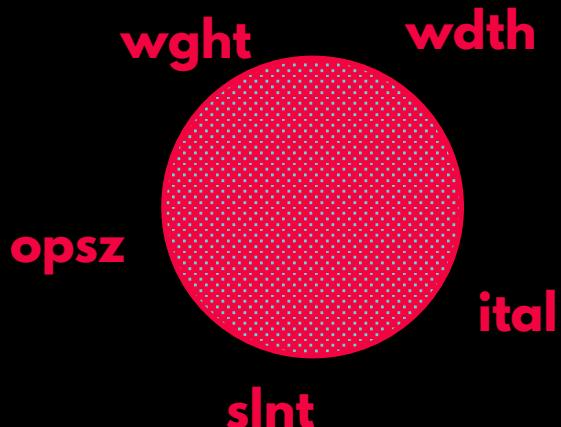


ASSI DI VARIAZIONE

VARIABLE FONTS

ASSI REGISTRATI

REGISTERED AXES



ASSI PERSONALIZZATI

CUSTOM AXES



ASSI REGISTRATI



VARIABLE FONTS

PESO



Aa Aa Aa

Nunito



CSS

wght

```
.nunito .ax11 {font-variation-settings: "wght" 54;}  
.nunito .ax21 {font-variation-settings: "wght" 105;}  
.nunito .ax31 {font-variation-settings: "wght" 156;}
```

Nunito



font-variation-settings

Usare la proprietà di basso livello in attesa di CSS4 Font Module



VARIABLE FONTS

PESO & LARGHEZZA

Amstelvar Alpha





wght wdth

```
.amstelvar .ax11 {font-variation-settings: "wght" 38, "wdth" 60;}  
.amstelvar .ax21 {font-variation-settings: "wght" 144, "wdth" 60;}  
.amstelvar .ax31 {font-variation-settings: "wght" 250, "wdth" 60;}  
  
.amstelvar .ax12 {font-variation-settings: "wght" 38, "wdth" 230;}  
.amstelvar .ax22 {font-variation-settings: "wght" 144, "wdth" 230;}  
.amstelvar .ax32 {font-variation-settings: "wght" 250, "wdth" 230;}  
  
.amstelvar .ax13 {font-variation-settings: "wght" 38, "wdth" 401;}  
.amstelvar .ax23 {font-variation-settings: "wght" 144, "wdth" 401;}  
.amstelvar .ax33 {font-variation-settings: "wght" 250, "wdth" 401;}
```

Amstelvar Alpha



PESO & LARGHEZZA

VARIABLE FONTS

Cabin VF Beta



* L'asse wdth qui sarebbe meglio descritto come asse di compressione



wght wdth

```
.cabin .ax11 {font-variation-settings: "wght" 95, "wdth" 0;}  
.cabin .ax21 {font-variation-settings: "wght" 111, "wdth" 0;}  
.cabin .ax31 {font-variation-settings: "wght" 128, "wdth" 0;}  
  
.cabin .ax12 {font-variation-settings: "wght" 95, "wdth" 50;}  
.cabin .ax22 {font-variation-settings: "wght" 111, "wdth" 50;}  
.cabin .ax32 {font-variation-settings: "wght" 128, "wdth" 50;}  
  
.cabin .ax13 {font-variation-settings: "wght" 95, "wdth" 100;}  
.cabin .ax23 {font-variation-settings: "wght" 111, "wdth" 100;}  
.cabin .ax33 {font-variation-settings: "wght" 129, "wdth" 100;}
```

Cabin VF Beta



OPTICAL-SIZE



Aa Aa Aa Aa Aa Aa Aa

Amstelvar Alpha



OPTICAL SIZE

METAL TYPE



OPTICAL SIZE

FONTE E DIMENSIONI

Choosing Fonts

How to select webfonts and add them to your library.

Understanding Webfonts

The Hoefler & Co. collection includes both *Multipurpose* and *ScreenSmart* fonts, each of which plays a different role in web design.

Multipurpose fonts — for headline sizes

Originally designed for print, Multipurpose fonts render beautifully on screen at large sizes. Each font's ideal size range is determined by its complexity: some Multipurpose fonts work as small as 18 pixels, but fonts with extreme weights or proportions are best saved for much larger sizes. We've designed [webfont waterfalls](#) for each of our fonts, to illustrate a range of suitable sizes. (For best results, avoid using Multipurpose fonts any smaller than the minimum size shown on a font's waterfall.)

ScreenSmart fonts — for text sizes

ScreenSmart fonts are specifically built for the screen, to perform at sizes from 9–18 pixels. Their forms are adapted to anticipate the effects of coarse pixel grids, and their styles are adjusted to ensure that each weight is appreciably different from the other members of the family. On Windows, where other webfonts are at their weakest, ScreenSmart fonts contain additional engineering that helps them render with special clarity and precision. For best results across all platforms, always use ScreenSmart fonts when setting text at small sizes.

<Webtype>

Webtype provides high-end fonts for online typography. We offer web designers the resources they need to bring professional branding and style to their websites.

[Learn more >](#)

Browse fonts by intended Size

Small 9px-14px
Medium 14px-48px
Large 48px+

Browse fonts by Category

Serif >
Sans-serif >
Script >
Decorative >
Symbol >

THE SCOTCH SUITE

Crafted for Specificity

aaa aaa aaa

Scotch Text

18 weights & italics
the workhorse

STANDARD
CONDENSED
COMPRESSED

Scotch Display

18 weights & italics
delicate finish

STANDARD
CONDENSED
COMPRESSED

Scotch Deck

12 weights
subhead notes

STANDARD
CONDENSED
COMPRESSED

<https://dashboard.typography.com/user-guide/choosing-fonts>

<https://www.webtype.com/>

<https://www.myfonts.com/fonts/positype/scotch/>



Aa Aa Aa Aa Aa Aa Aa



asse optical-size



CSS font-size



OPTICAL-SIZE



Aa Aa Aa Aa Aa Aa Aa

Amstelvar Alpha





wght wdth opsz

```
.amstelvar .opsz1 {font-variation-settings: "wght" 144, "wdth" 230, "opsz" 10;}  
.amstelvar .opsz2 {font-variation-settings: "wght" 144, "wdth" 230, "opsz" 20;}  
.amstelvar .opsz3 {font-variation-settings: "wght" 144, "wdth" 230, "opsz" 30;}  
.amstelvar .opsz4 {font-variation-settings: "wght" 144, "wdth" 230, "opsz" 40;}  
.amstelvar .opsz5 {font-variation-settings: "wght" 144, "wdth" 230, "opsz" 50;}  
.amstelvar .opsz6 {font-variation-settings: "wght" 144, "wdth" 230, "opsz" 60;}  
.amstelvar .opsz7 {font-variation-settings: "wght" 144, "wdth" 230, "opsz" 72;}
```

Amstelvar Alpha

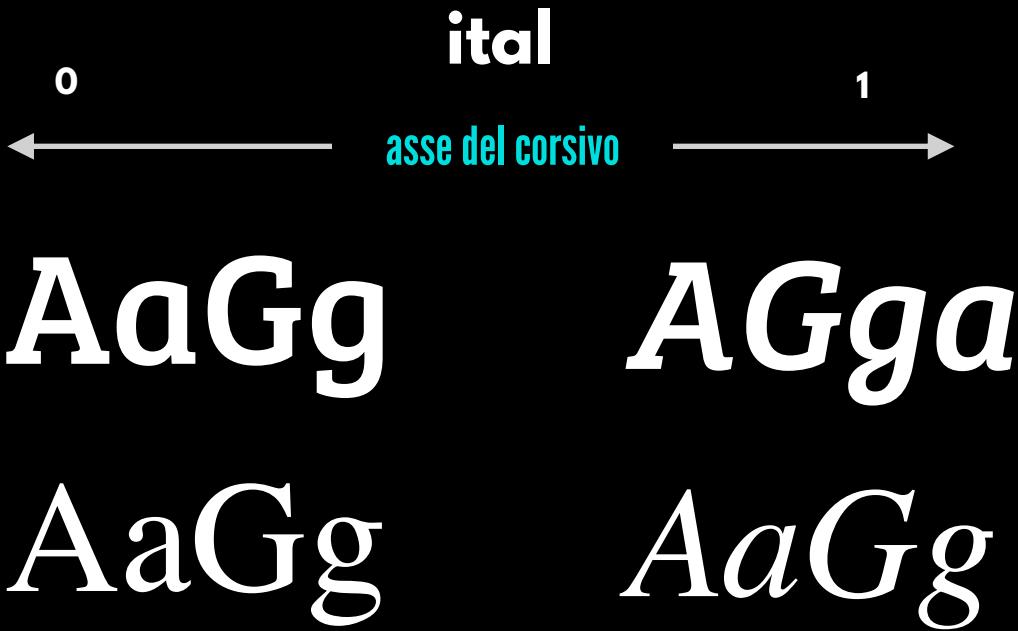


VARIABLE FONTS

ITALIC

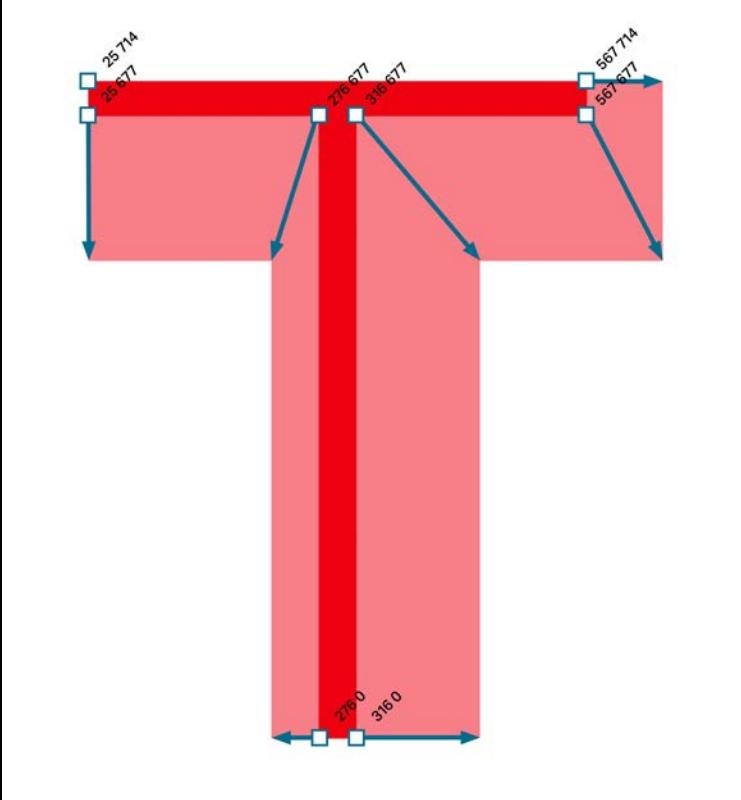
Bree serif

Times New Roman



INTERPOLAZIONE

...e la compatibilità di punti.



INTERPOLAZIONE

Per una corretta interpolazione fra diversi tracciati occorre avere una **compatibilità di punti**.
Non necessariamente ciò si verifica fra due stili di font tradizionalmente inseriti nella **stessa famiglia tipografica**.

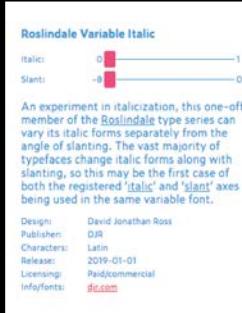
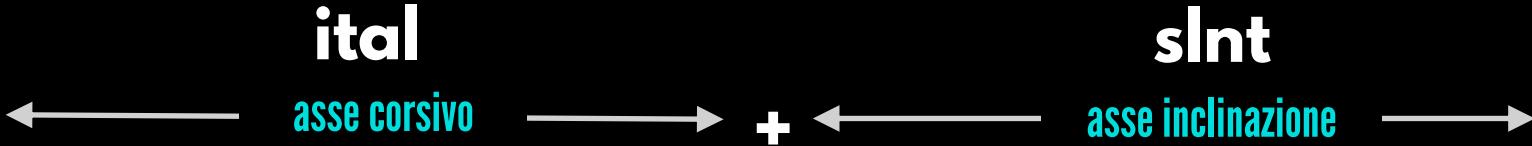
a a a a

Helvetica Neue

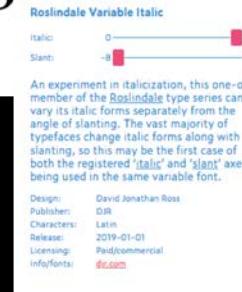
Miriad Variable Concept



ITALIC & SLANT



ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 01234567
89



ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 01234567
89

Roslindale Variable Italic



ASSI PERSONALIZZATI



GLI ASSI DI VARIAZIONE POSSIBILI

> 64.000



HEADING

AmstelvarAlpha Default 

Contrast



A horizontal slider with a circular knob at the left end, currently positioned near the center. A cursor arrow points towards the knob.

Grade



A horizontal slider with a circular knob at the left end, currently positioned near the center.

Optical Size



A horizontal slider with a circular knob at the left end, currently positioned near the center.

ParaWidth



A horizontal slider with a circular knob at the left end, currently positioned near the center.

ParaWeight



A horizontal slider with a circular knob at the left end, currently positioned near the center.

Serif Rise



A horizontal slider with a circular knob at the left end, currently positioned near the center.

Width



A horizontal slider with a circular knob at the right end, currently positioned near the center.

Weight



A horizontal slider with a circular knob at the right end, currently positioned near the center.

xHeight



A horizontal slider with a circular knob at the right end, currently positioned near the center.

Variable Fonts

Introduction

MY SPECIMENS

Old Default
Compressa

SPECIMENS

FF Meta
方正悠黑
文鼎晶熙黑
晶熙ゴシック体
Amstelvar
Avenir Next
Bitcount
Buffalo Gal
Compressa
Decovar

Lab-DJR

Un asse può far cambiare la densità dei puntini con qui sono fatti i glifi.

Un altro asso governa quanto sono arrotondati i puntini. E via dicendo

TEXTBOX

Textbox

Font

Font size

Line-height

Alignment

FONT VARIATIONS

Instance

Bevel

Roundness

Quad

Scale

FONT FEATURES

COLOUR



Happy

David Jonathan Ross: <https://djr.com/notes/first-variable-font/>



GRASS

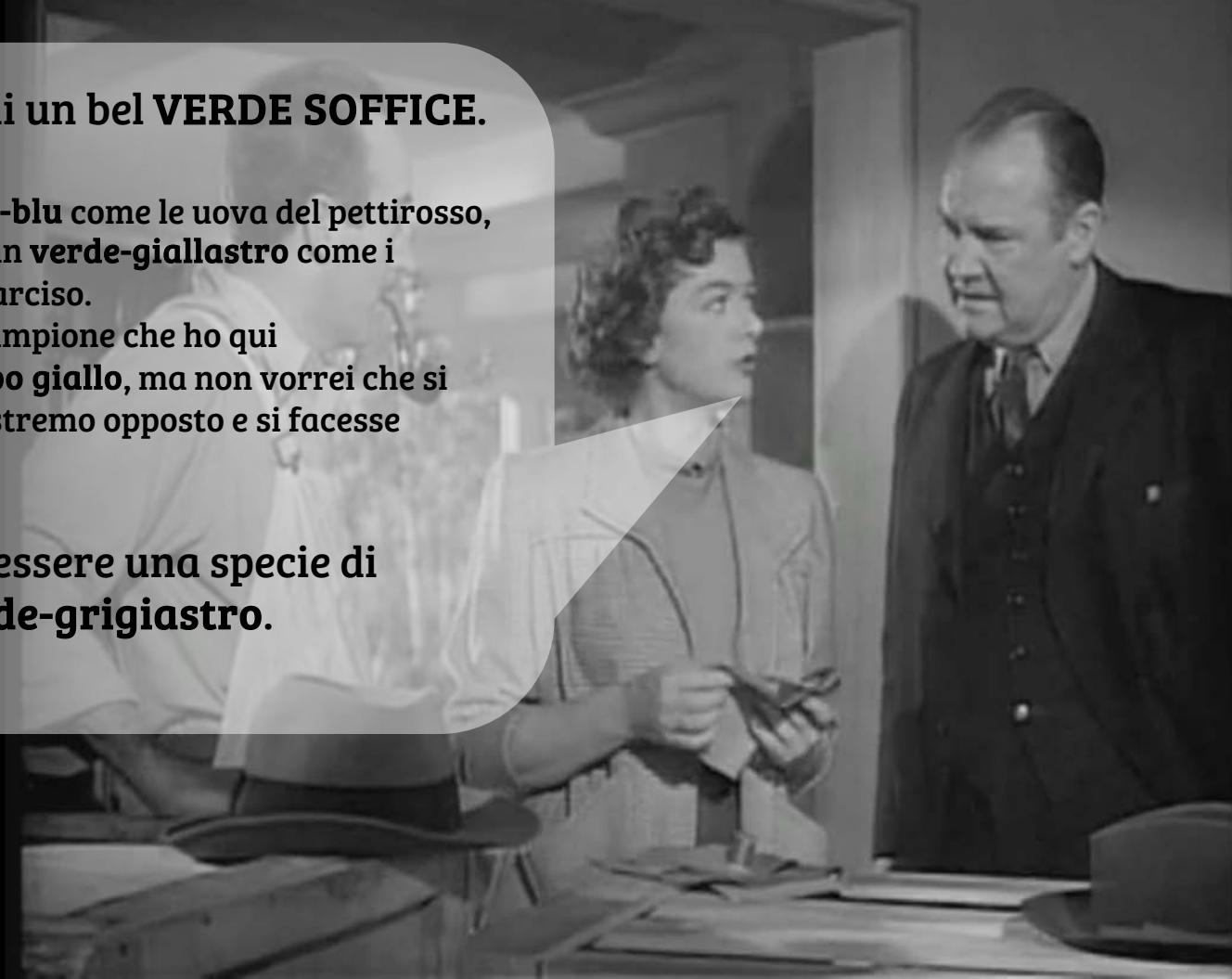


Lo voglio di un bel VERDE SOFFICE.

Non un verde-blu come le uova del pettirosso,
ma neppure un verde-giallastro come i
boccioli del narciso.

Ora l'unico campione che ho qui
è un po' troppo giallo, ma non vorrei che si
andasse all'estremo opposto e si facesse
troppo blu.

Dovrebbe essere una specie di
giallo-verde-grigiastro.



Continua per altre quattro stanze



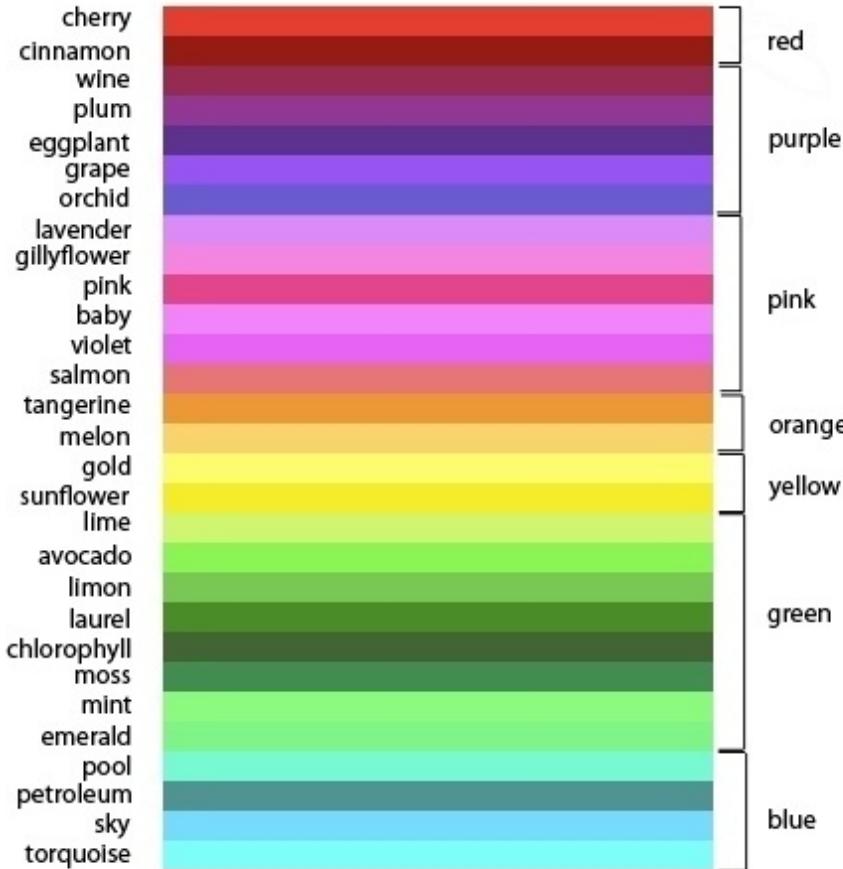


Hai preso nota?

Verde,
blu,
giallo,
rosso
e bianco



Women



Men

LE ISTANZE



VARIABLE FONTS LE Istanze

The screenshot shows the Axis Praxis website with the 'Gingham' font selected. The font is displayed in large, bold, black letters. A floating UI panel on the right side allows for font modification. The 'Font' dropdown menu is open, showing various weight and width options. The 'Regular' option is currently selected. Other visible options include 'Condensed Light (default)', 'Condensed Regular', 'Condensed Bold', 'Light', 'Bold', 'Wide Light', 'Wide Regular', and 'Wide Bold'. The UI also includes sections for 'TEXTBOX' settings (Textbox: top-heading-1, Font: Gingham Regular), 'Font size' (set to 16px), 'Line-height', 'Alignment', and 'CSS' (with 'New instance' and 'Delete instance' buttons). A 'FONTVARIATIONS' section is also present.

playground blog resources donate

Introduction

MY SPECIMENS

SPECIMENS

PT Root UI
方正悠黑
文鼎晶熙黑
晶熙ゴシック体
Amstelvar
Avenir Next
Bitcount
Bree
Buffalo Gal
Compressa
Decovar
DIN 2014
Dunbar
Fit
Gingham
Gnomon
Grade
Hela
Jabin
dT Jakob
Jam
Kairos Sans
Lab-DJR
Libre Franklin

Gingham

Gingham

Gingham

Gingham is an experimental variable font by Christoph Koeberlin. It has two axes, weight and width. It has very limited character set consisting of the upper and lowercase basic Latin alphabet, plus a little punctuation. The font is based on an unfinished design and comes without warranty.

Gingham

Gingham

Le scelte di chi se ne intende (i type designer)



Gingham

Gingham

Gingham

an experimental variable font by
berlin. It has two axes, weight and
very limited character set consisting of
lowercase basic Latin alphabet, plus a
on. The font is based on an unfinished

TEXTBOX

Textbox top-heading-1

Font Gingham Regular ⓘ
Drag & drop fonts here

Font size 139.0 px

Line-height

Alignment

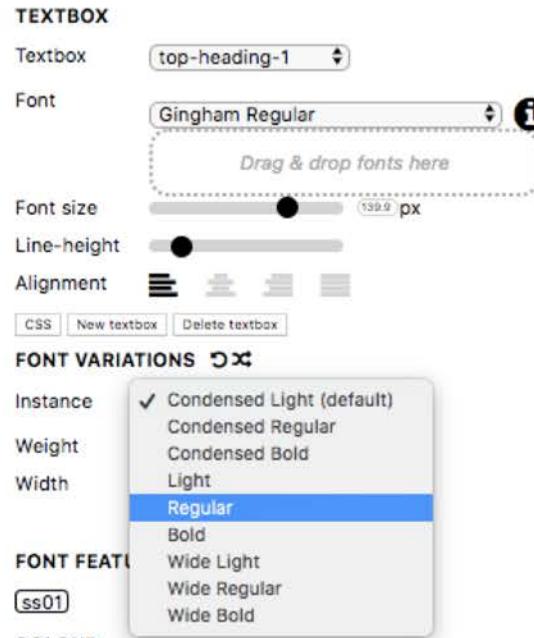
CSS New textbox Delete textbox

FONT VARIATIONS ☰

Instance ✓ Condensed Light (default)
Condensed Regular
Condensed Bold
Light
Regular
Bold
Wide Light
Wide Regular
Wide Bold

FONTS FEATURES ss01

COLOUR



COMPRESSA EXPANDA

Compressa is a geometric, sans serif typeface inspired by European design from the mid-20th century. PRO-Font has numerous sets of small caps and alternative characters for additional variety. This flexible workhorse gives signs, product labels, bookends and sports team logos an uncompromising look.

Proportions, fit and details are designed for the smallest dimensions and each of its weights and widths contains the most important features for a reliable text surface. Enhanced fonts with ligatures, shapes and fractions allow designers to use the fonts for the most complex information. Compressa is characterized by a wide range of instances, from thin condensed to bold expanded versions.

TEXTBOX

Textbox

Font

Font size

Line-height

Alignment

[CSS](#) [New text](#)

FONT VARIANTS

Instance

Weight

Width

Italic

FONT FEATURES

[aalt](#) [c2sc](#)

[liga](#) [lnum](#)

[sinf](#) [smcp](#)

COLOUR



ExtraCn Heavy
ExtraCn Thin It
ExtraCn UltraLight It
ExtraCn Light It
ExtraCn Regular It
ExtraCn Medium It
ExtraCn Bold It
ExtraCn Black It
ExtraCn Heavy It
Cn Thin
Cn UltraLight
Cn Light
Cn Regular
Cn Medium
Cn Bold
Cn Black
Cn Heavy
Cn Thin It
Cn UltraLight It
Cn Light It
Cn Regular It
Cn Medium It
Cn Bold It
Cn Black It
Cn Heavy It
Neutral Thin
Neutral UltraLight
Neutral Light
Neutral Regular
Neutral Medium
Neutral Bold It
Neutral Black
Neutral Heavy
Neutral Thin It
Neutral UltraLight It
Neutral Light It
Neutral Regular It
Neutral Medium It
Neutral Bold It
Neutral Black It
Neutral Heavy It
Exp Thin
Exp UltraLight
Exp Light

Font



px

frac [ital](#)

onum [salt](#)

zero

VARIABLE FONTS

I VANTAGGI



PERFORMANCE



**Le «font variations» del
formato OpenType 1.8
migliorano la performance
di caricamento dei web
font?**



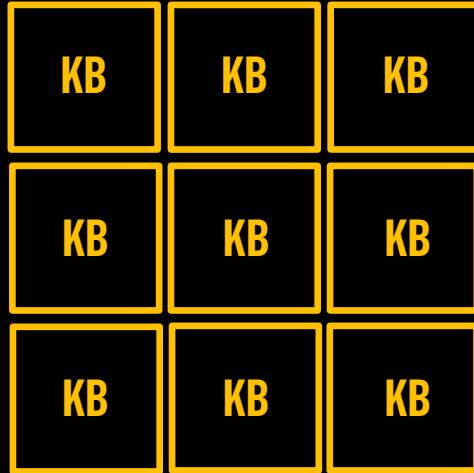
DIPENDE!

VARIABLE FONTS

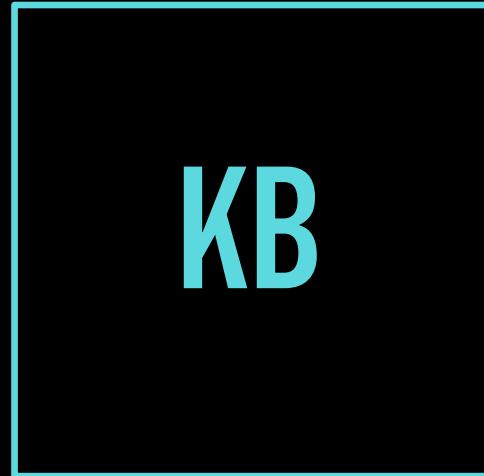
PERFORMANCE

PESO

FONT STATICI



FONT VARIABILE



PERFORMANCE

VARIABLE FONTS

RICORDATI DI

- utilizzare il formato di compressione woff2
- valutare se fare il subsetting (licenza permettendo)
- utilizzare buone pratiche di web font loading



OPTICAL SIZE



Aa

Aa

Aa

Aa

Aa

Aa

Aa



FINE TUNING



ADATTAMENTO ALLE LINGUE



RESPONSIVE / FLUID WEB



VARIABLE FONTS

GLI SVANTAGGI



LA SCELTA



IL COSTO



IL POTENZIALE CRIMINALE ☺

Crimini tipografici



VARIABLE FONTS

L'IMPLEMENTAZIONE



FALLBACK: FONT STACK



FONT STACK

font-family:

“Typeface VF”, “Typeface”, Helvetica, sans-serif;

Variable
webfont

Static
webfont

websafe
system font

default system font
(generic name)

NO



Feature query

```
body {  
  font-family: "Typeface", sans-serif;  
}
```

```
@supports (font-variation-settings: normal) {  
  body {  
    font-family: "Typeface VF", sans-serif;  
  }  
}
```



@FONT-FACE



@FONT-FACE

```
@font-face {  
    font-family: "Typeface VF";  
    src: url('Typeface_VF.woff2') format('woff2-variations'),  
        /* il prossimo standard, ora per Safari */  
        url('Typeface_VF.woff2') format('woff2');  
        /* per gli altri browser che supportano i VF */  
}  
@font-face {  
    font-family: "Typeface";  
    src: url('Typeface_Regular.woff2') format('woff2');  
}  
@font-face {  
    font-family: "Typeface"';  
    src: url('Typeface_Bold.woff2') format('woff2');  
    font-weight: 700;  
}
```



DOVE LI TROVO?



DOVE LI TROVO?

- **CREATIVE CLOUD DI ADOBE**
- **GOOGLE FONTS EARLY ACCESS**
- **DISTRIBUTORI DI FONT**
- **FONDERIE INDEPENDENTI**
- Chiedi alla tua fonderia di fiducia

 ➤ Acumin Variable Concept	 Sample
 ➤ Fit	 Sample
 ➤ Gingham	 Sample
 ➤ Minion Variable Concept	 Sample
 ➤ Myriad Variable Concept	 Sample
 ➤ Skia	 Sample
 ➤ Source Code Variable	 Sample
 ➤ Source Sans Variable	 Sample
 ➤ Source Serif Variable	 Sample



VARIABLE FONTS

DOVE LI TROVO?

GOOGLE FONTS **EARLY ACCESS**

```
@import url(https://fonts.googleapis.com/earlyaccess/cabinvfbeta.css);  
@import url(https://fonts.googleapis.com/earlyaccess/amstelvaralpha.css);  
@import url(https://fonts.googleapis.com/earlyaccess/nunitovfbeta.css);
```



STRUMENTI



STRUMENTI

axis-praxis.org

The screenshot shows the Axis-Praxis website's variable font playground. On the left, there's a sidebar with links for 'Introduction', 'MY SPECIMENS', and 'SPECIMENS' (listing fonts like PT Root UI, Amstelvar, Avenir Next, Bitcount, Bree, Buffalo Gal, Compressa, Decovar, DIN 2014, Dunbar). The main content area features a large heading: 'Axis-Praxis is a website for playing with OpenType Variable Fonts'. Below it, a paragraph explains the functionality: 'Discover 30+ variable fonts. Experiment with the typographic controls in the right panel on this default layout, or choose a typeface specimen from the left column. Every textbox is fully editable: change font, font size, alignment, line-spacing as well as the variation sliders. And type your own text, of course.' A red callout box contains the text: 'Font makers can try out their own variable fonts. Just drag any variable TTF to the right panel, the current textbox gets set to that font, and its axes show up right away in the Font Variation section.' To the right, a panel titled 'TEXTBOX' shows settings for a 'Textbox' (heading1), 'Font' (Zeitung Pro Regular), 'Font size' (84px), 'Line-height' (1.2), 'Alignment' (center), and buttons for 'CSS', 'New textbox', and 'Delete textbox'. Below it are sections for 'FONT VARIATIONS' (Instance: Thin, Weight: REGULAR, Optical Size: 100), 'FONT FEATURES' (c2sc, calt, case, dnom, frac, lig, inum, locl, numer, onum, pnum, sinf, smcp, ss01, subs, sups, thum, zero), and 'COLOUR' (with a color swatch).



VARIABLE FONTS

STRUMENTI

v-fonts.com

Variable Fonts (beta)

A simple resource for finding and trying variable fonts

Objektiv VF

Weight:  100 900
Italic: 0 1

A geometric-ish sans that works as a companion to [Mokoko](#).

Design: Dalton Maag Ltd.
Publisher: Dalton Maag Ltd.
Characters: Latin
Release: 2019-03-08
Licensing: Paid/commercial, Trial
Info/fonts: daltonmaag.com

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789

Mokoko VF

Weight:  100 900
Italic: 0 1

A geometric-ish slab serif that works as a companion to [Objektiv](#).

Design: Dalton Maag Ltd.
Publisher: Dalton Maag Ltd.
Characters: Latin
Release: 2019-03-08
Licensing: Paid/commercial, Trial
Info/fonts: daltonmaag.com

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789



VARIABLE FONTS

STRUMENTI

play.typedetail.com

Font Playground File Help Design Code About

FONT FAMILY

T Search by name, axis, designer...

Renner*

Rhody 3

Rhody 2

Roslindale Beta 2

Roslindale Beta 2

Roslindale Beta Italic 2

Roslindale Beta Italic 1

San Francisco Display 1

San Francisco Display 1

San Francisco Text 1

San Francisco Text 1

San Francisco Text Italic 1

F FONT INFO

Roslindale Beta Italic 2

Roslindale Beta Italic 1

Designer David Jonathan Ross

Publisher DJR

License Paid/commercial

Link djrc.com

Font Size 100

PRESET VARIATIONS

Bold Upright Italic Ag

Bold Italic Ag

Bold Ag

VARIABLE OPTIONS

X Italic 1

Y Slant 0.00

Font Playground Presents:

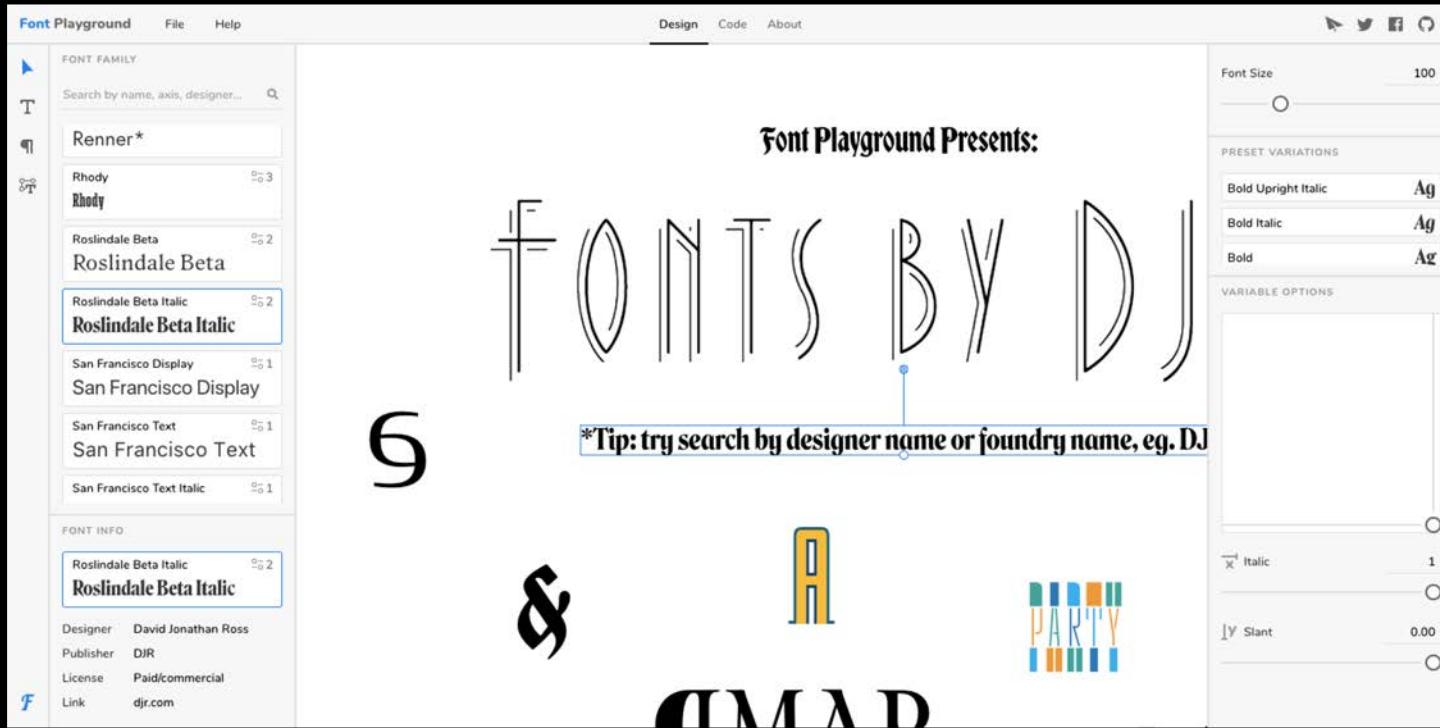
f o n t s b y j

*Tip: try search by designer name or foundry name, eg. DJ

ſ & A

PARTY

ALMAD



VARIABLE FONTS

STRUMENTI

wakamaifondue.com



VARIABLE FONTS

STRUMENTI

The screenshot shows the Typetura.js interface. On the left, there's a sidebar with a teal header containing a 't' icon and 'v0.1.2'. Below it are several sliders and dropdowns for styling: 'font-family' set to 'Exo', 'weight', 'width', 'optical-size', 'italic-angle', and 'slant'. Under 'font weight', 'bold' is selected. 'font size' is set to '3.5em'. 'line height' is set to '1.1'. 'letter space' and 'word space' have small arrows indicating they can be adjusted. At the bottom of the sidebar is a green button labeled 'Install typetura.js' with a small 'git' icon. To the right of the sidebar is a preview area showing the text 'WELCOME TO TYPETURA' in a large, bold, black font. Below the preview is a paragraph of text explaining the tool's fluid typesetting capabilities. At the very bottom of the preview area is a list of CSS keyframes: p, h1, h2, h3, h4, h5, h6, ul, ol, blockquote.

Typetura is a fluid typesetting tool. Use the slider at the top of the screen to select the breakpoint you want to style, then use the panel on the left of the screen to style your page. As you style for more than one screen size you may notice that text transitions fluidly between them. This is because Typetura is set up to work more like animation keyframes as opposed to breakpoints and anything with a little lightning bolt symbol next to it will transition.

Typetura is still in early beta and there are still many features to add and a few bugs to squash. If you have any questions or feedback please send it to info@typetura.com.

```
article h1 {  
  --tt-key: h1;  
  font-size: 5em;  
  line-height: 1.1;  
  margin-top: 1em;  
  font-family: Exo;  
  font-weight: bold;  
  text-transform: uppercase;
```

typetura.com

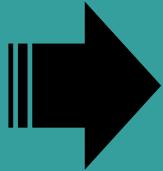
typetura.js



FLUID (LIQUID)

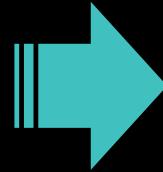


RESPONSIVE



FLUID

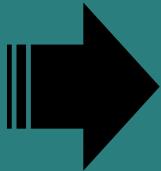
**RESPONSIVE
WEB TYPOGRAPHY**



**FLUID
WEB TYPOGRAPHY**



BREAKPOINTS



KEYFRAMES

t

typetura.com

design fluido basato sui fotogrammi chiave

KEYFRAMES

mappati su qualcosa
di diverso dal TEMPO

BROWSER WIDTH

scroll depth
cursor position
device orientation

```
animation: var(--tt-key) 1s var(--tt-ease) 1 calc(-1s*var(--tt-bind)/var(--tt-max)) paused;
```

“All the JavaScript does is write the width as a CSS variable and package the static CSS assets.”

— Scott Kellum



VARIABLE FONTS

LE POTENZIALITÀ



INTERFACCE MULTIMEDIALI



VARIABLE FONTS

INPUT

MOVIMENTO DEL
TELEFONO

ASSI DI VARIAZIONE:
WEIGHT WIDTH

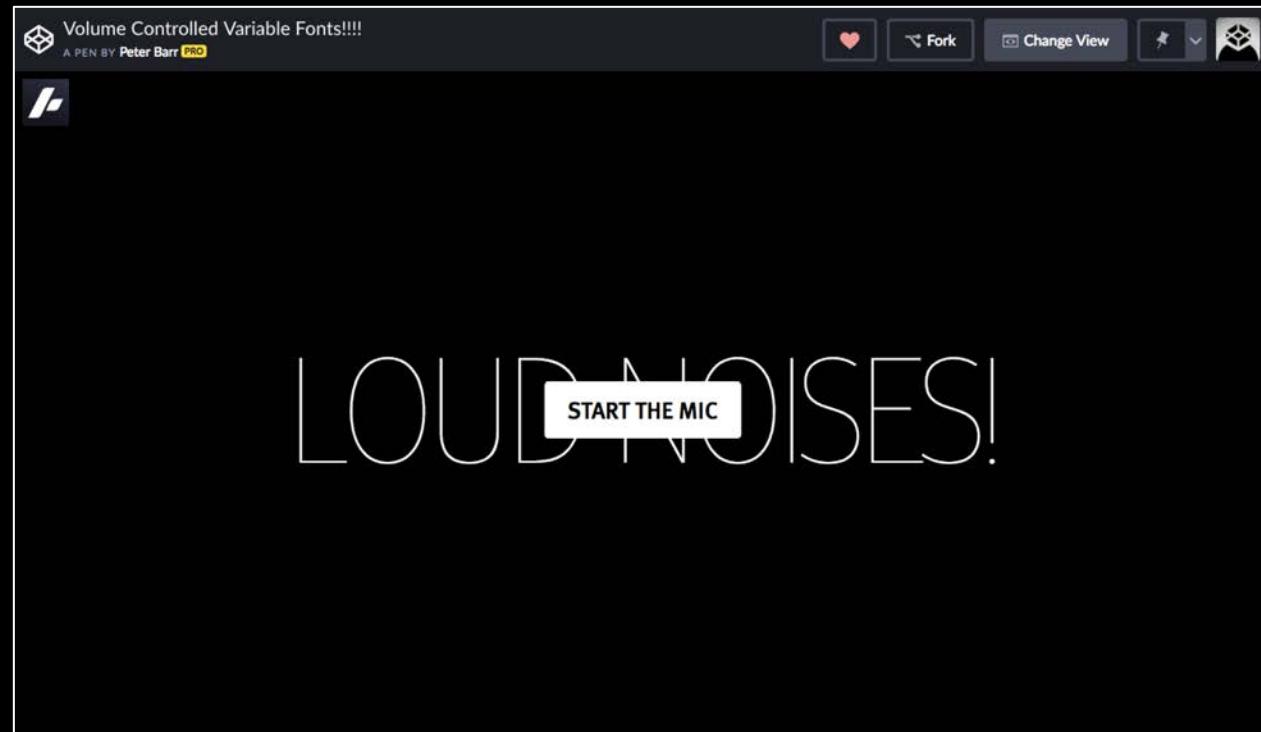


VARIABLE FONTS

INPUT

AUDIO

ASSI DI VARIAZIONE:
WEIGHT WIDTH



A pen by Peter Barr <https://codepen.io/petebarr/full/yGeMxr>



VARIABLE FONTS

INPUT

PRESSIONE

ASSI DI VARIAZIONE:

WEIGHT



ADATTAMENTO ALL'AMBIENTE



VARIABLE FONTS

L'ASSE GRADE

The screenshot shows the Axis Praxis website with the 'Grade' font specimen selected. The main content area displays the word 'Grade' in a large, bold, black font. To the left, a sidebar lists various font specimens. On the right, a detailed view of the 'Grade' font is shown with a 'TEXTBOX' section and a 'FONT VARIATIONS' section.

TEXTBOX:
Textbox: heading
Font: GradeGX
Font size: 16px
Line-height: 1.2
Alignment: center
CSS: New textblock | Delete textblock

FONT VARIATIONS:
Instance: Grade
Width: 50%
Grade: 50%

FONT FEATURES:
COLOUR: #000000

Grade

A variable font of 2 axes by Adam Twardoch, based on a design by Pablo Impallari, intended to demonstrate smooth variation in typographic grade

Font appearance varies depending on the technology used for display or printing, sometimes appearing lighter or darker than desired. The type of paper, the type of ink, and other aspects of the printing process can all affect font appearance. For example, printing using offset lithography is pretty faithful to original lettershapes, while the gravure method causes some spread. Similar problems occur when using white-on-black text, when fonts appear heavier than black-on-white, whether on paper, screen or illuminated displays.

To address this problem, it is becoming increasingly common for type designers to offer a selection of weights, called 'grades', intended so that the designer can choose the appropriate weight for each situation. Variable adjustment of grade offers the possibility to give fine control over grade to readers of online texts, as well as offering the designer the ability to set a well-chosen default, given the characteristics of a rendering device or colour combination.



Introduction

MY SPECIMENS

—

SPECIMENS

NEW

PT Root UI

方正悠黑

文鼎晶熙黑

晶熙ゴシック体

Amstelvar

Avenir Next

Bitcount

Bree

Buffalo Gal

Compressa

Decovar

DIN 2014

Dunbar

Fit

Gingham

Gnomon

Grade

Hela

Jabin

dT Jakob

Jam

Kai

Grade

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Font appearance varies depending on the technology used for display or printing, sometimes appearing lighter or darker than desired. The type of paper, the type of ink, and other aspects of the printing process can all affect font weight significantly. For example, printing using offset lithography is pretty faithful to original lettershapes, while the gravure method causes some spread. Similar problems occur when using white-on-black text, when fonts appear heavier than black-on-white, whether on paper, screen or illuminated displays.

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TEXTBOX

Textbox

text-left

Font

GradeGX



Drag & drop fonts here

Font size

px

Line-height

Alignment

Left Center Right

CSS New textbox Delete textbox

FONT VARIATIONS

Instance

↑ ↓

Width

93.0%

Grade

80

FONT FEATURES

COLOUR



Introduction

MY SPECIMENS

—

SPECIMENS

NEW

PT Root UI

方正悠黑

文鼎晶熙黑

晶熙ゴシック体

Amstelvar

Avenir Next

Bitcount

Bree

Buffalo Gal

Compressa

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TEXTBOX

Textbox

text-left

Font

GradeGX

Drag & drop fonts here

Font size

px

Line-height

Alignment

CSS New textbox Delete textbox

FONT VARIATIONS

Instance

93.0%

Width

93.0%

Grade

150

FONT FEATURES

COLOUR



VARIABLE FONTS

INPUT LUCE AMBIENTE

ASSE DI VARIAZIONE:
GRADE

Tom Lokhorst
@tomlokhorst

Segui

Changing font grade (weight irrespective of width) based on ambient light. “Heavy” font in low-light. **#typography @q42**

Traduci il Tweet



0:15 15.300 visualizzazioni

21:31 - 1 mar 2017

230 Retweet 453 Mi piace

13 230 453

2019 © Giulia Laco

VARIABLE FONTS

INPUT

DISTANZA DALLO
SCHERMO

ASSI DI VARIAZIONE:

GRADE?,
X-HEIGHT



NUOVI AMBIENTI



VARIABLE FONTS

INPUT

CAMERA,
DATI, ETC.

ASSI DI VARIAZIONE:

ASSI
PROSPETTICI?

FONT PER LA REALTÀ VIRTUALE O AUMENTATA



Alessia Nicotra e Bruno Maag
Kerning conference, Faenza 8 giugno 2018



INFOGRAFICHE



VARIABLE FONTS

INPUT

BIG DATA

ASSI DI VARIAZIONE:

WEIGHT
SLANT

Untitled
A PEN BY François Poizat

Harrakech Moscow Padova
Lyon Rennes Tokyo
Johannesburg Beijing San
Francisco Savissivik Tolhuin Tignes

A pen by François Poizet <https://codepen.io/FranzPoize/pen/ayYevr>



ANIMAZIONI (SEMANTICHE?)



ACCESSIBILITÀ, BISOGNI PARTICOLARI



ESPRESSIVITÀ



VARIABLE FONTS

ESPRESSIVITÀ

suono
suono

attivo

suono
suono
suono

statico

calmo
ansioso

*Esercizio liberamente ispirato a
Sara Hyndman, Why Fonts Matter*



VARIABLE FONTS

ESPRESSIVITÀ



*Agisci ora
Svegliati*

Ridi

Pensa

Calmati

Vai a dormire

Esercizio liberamente ispirato a
Sara Hyndman, Why Fonts Matter

WHY
FONTS
MATTER.

+ Calma + Energia



GRAZIE PER L'ATTENZIONE



SEGUIMI

e segnalami i tuoi
esperimenti con i VF



[@webmatter_it](https://twitter.com/webmatter_it)



[giulialaco](https://www.linkedin.com/in/giulialaco)



[giulia.laco](https://www.facebook.com/giulia.laco)

TYPE STRATEGY



ISCRIVITI ALLA NEWSLETTER

lascia la tua mail per
aggiornamenti

FEEDBACK



<https://joind.in/talk/c7c27>



**BUON
TYPESETTING**



Principali caratteri utilizzati

BALBOA PLUS FILL

Balboa Condensed



Balboa ExtraCondensed



Balboa UltraLight



Balboa Light



Balboa Medium



Balboa Bold



Balboa ExtraBold



Balboa Black



Balboa ExtraBlack



Carl Marx regular



Carl Marx bold

Bree serif regular

Bree serif italic