MD IO

MD IO's design is based on the idea of *legibility* (the ease of identifying individual glyphs) as opposed to *readability* (the ease of overall reading).

To make that possible for very detailed glyphs (like M or #), as well as in extremely bold weights and at small sizes, the design makes use of prominent ink traps where strokes meet.

Up close, these are a striking design feature, but at text sizes they all but disappear — resulting in glyphs which look normal, but render sharper and more legibly.

Along with ensuring individual glyphs are legible, MD IO also maintains a clear and distinct separation between upright and italic styles. The italics are not just slanted variants of the roman forms but cursive constructions, producing a texture that can easily be identified in code or written text.

The italic styles of MD IO also feature uniquely orthogonal horizontal stroke endings. Originally implemented as a straight-forward rendering improvement for text on screen, this has become a graphic feature in the boldest weights and largest display sizes.

Roman

Thin
Light
Regular
Medium
Semibold
Bold
Black
Ultra

Italic

Thin Italic
Light Italic
Italic
Medium Italic
Semibold Italic
Bold Italic
Black Italic
Ultra Italic

96pt

Astronaut 23

72pt   Slashed zero

[1206] DESIGNER
Anodized Material

40pt

LOS ANGELES. NOVEMBER 2019
An Alternative History
349 Electric Sheep Count

96pt

Prototypical

72pt

NETWORK ADAPTER
Rated for 240V AC

40pt

INDUSTRIAL SECTORS 35–41
Straßenbahn Time-table
"Outer District Express"

96pt   Slashed zero

Industry 2034

72pt

IRON FORGE 1560°C

Avoid Eye Contact

40pt

5-YEAR COMPONENT WARRANTY

Manufacturing Processes

Paragraph 49.c.3 Details

96pt

Electrostatic

72pt

ULM & THE BAUHAUS
Designed Objects

40pt

METROPOLITAN MUSEUM OF ART
Functionalist Aesthetics
Operating: [1893-1973]

96pt

26 Vinyl PVC

72pt

FORMICA, MELAMINE

1934 Zephyr Radio

40pt

CHROME PLATED STEEL CHAIR

Digital Versatile Discs

206 Cantilevered Assembly

96pt

Maximum 500T

72pt

Black circled numbers

CONCESSIONS DESK

Risograph Print ❸

40pt

"PROGRAMMABLE MICROCHIPS"

3½ Hours Each Day Saved

International Expositions

96pt

'Archaeology'

72pt

NASA ADV. PROJECT Jet Propulsion

40pt

[20] NEW OPERATION MANUAL
Objective Departures Area
Desks M3-N1 & N3. (North)

96pt

Interface 365

72pt

USER INTERACTION Development & Ops

40pt

100% CODE COVERAGE REACHED
Reviews In Progress (#6)
It's now safe to continue.

16 / 20 pt

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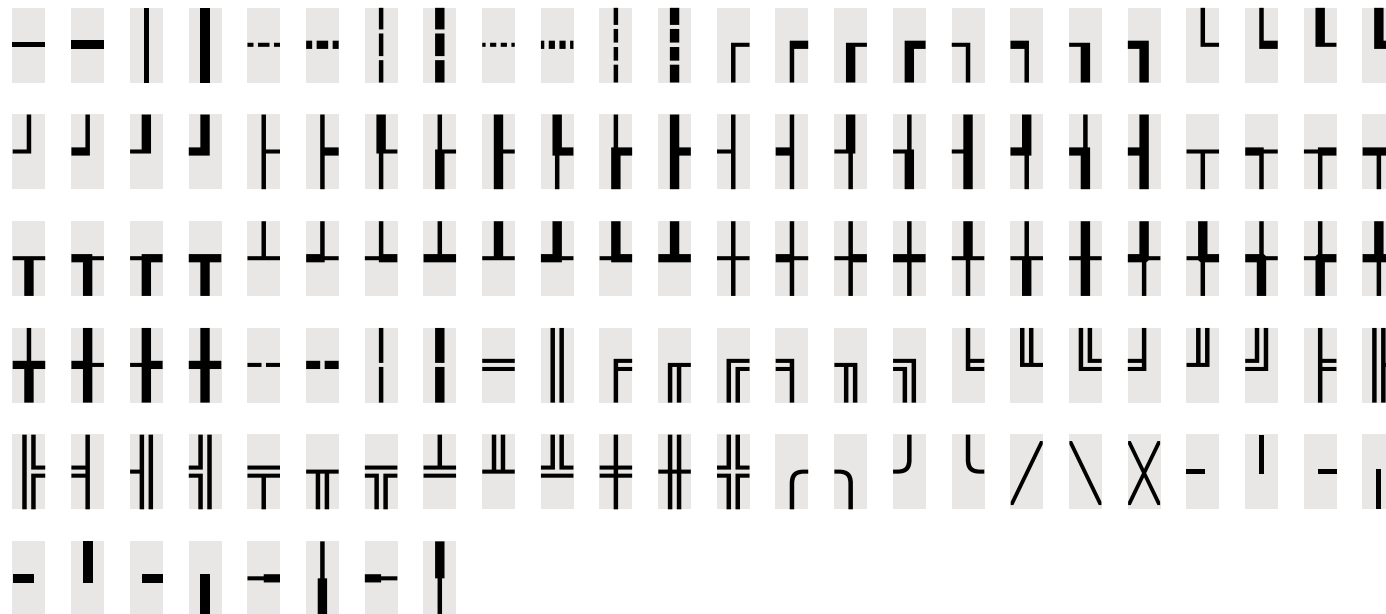
Uppercase	ABCDEFGHIJKLMNOPQRSTUVWXYZ		

Lowercase	abcdefghijklmnopqrstuvwxyz		

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Punctuation	. , : ; … ! ¡ ? ¿ · • * # / \ - – — _ ( ) { } [ ] " ' , „ " " ' ' « » ‹ ›		

Symbols & Math	ᵃ º @ & ¶ § © ® ™ ° | ¦ † ‡ ′ ″ ‴ λ φ μ ¤ ✓ × + − × ÷ = ≠ > < ≥ ≤ ± ≈ ~ ¬ ^ / % ‰		

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Super & subscript	0 1 2 3 4 5 6 7 8 9 0 H 0 1 2 3 4 5 6 7 8 9 0
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Block Elements

Box Drawing

ss01 Alternate ß	Straße	Straße
ss03 Black Circled Numbers	Line 3	Line ❸
sups Superscript	x2+4	x^2+4
frac Arbitrary Fractions	17/24	17/24
calt Contextual Alternates *(Code Ligatures)*	<!--	<!--

ss02 Circled Numbers	Line 2	Line ②
ordn Ordinals	1o 1a	1º 1ª
subs, sinf Subscript, scientific inferiors	H2SO4	H$_2$SO$_4$
zero, ss04 Slashed Zero	0% E1 0	0% E10
locl Localised Forms *(Romanian & Moldavian, Northern Sámi)*	Şţ Ŋ	Șț Ŋ

Using OpenType Features in CSS

The four-character tags (ss01, ordn, etc.) listed next to each
feature above can be used with the font-feature-settings
CSS property to toggle the relevant feature. For instance,
    font-feature-settings: "ss01";
will enable the *alternate ß* stylistic set.

We recommend referring to the MDN OpenType Font Features
Guide for more information and best practices.

4 Characters	`<!--`

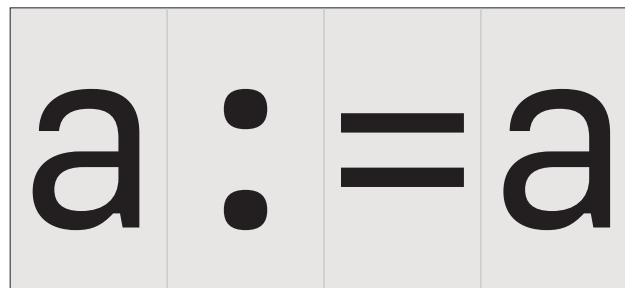| 3 Characters	`///` `...` `</>` `<<=` `<=<` `<=>` `<:<` `<::` `<||` `-->` `>=>` `>::` `!==`
	`=/=` `=<=` `=>>` `=>=` `=:=` `:<:` `:>:` `::<` `::>` `://` `:::` `||>` `||=`

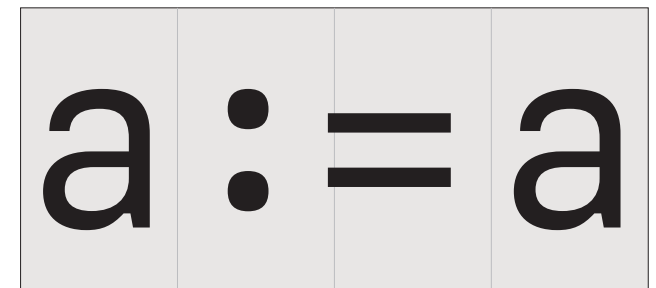| 2 Characters	`//` `/>` `/=` `/*` `??` `..` `</` `<-` `<=` `<:` `->` `>:`
	`!!` `!=` `=>` `:<` `:>` `:=` `::` `|=` `||` `*/` `--`

Ligatures for Code

MD IO's code 'ligatures' work a little differently from other fonts. Rather than true ligatures (single drawings meant to replace sets of multiple characters), the feature dynamically *moves* glyphs while keeping the underlying characters intact.

That means syntax highlighting and tracking ('letter-spacing' in CSS) still work — and because the glyphs remain semantically unchanged, there's no confusion about what a ligature represents.

Since this context-sensitive repositioning doesn't create the same accessibility issues as traditional code ligatures, it's enabled by default in supported applications (including Xcode and VS Code). You can disable it manually by turning off the `calt` (Contextual Alternates) OpenType feature.

Ligatures off. The baseline-aligned lower dot, and wider spaces around the colon compared with the equal sign, cause the alignment to appear uneven.

Ligatures on. The lower dot of the colon is shifted upwards, and both glyphs are repositioned for more balanced spacing.

(Thanks to Johannes from Finaltype for introducing this dynamic positioning concept, and for advising on our implementation.)

Showing 145 of a total 414 supported languages.

Afrikaans
Akan
Albanian
Asu
Azerbaijani
Bafia
Bambara
Basque
Bemba
Bena
Bosnian
Breton
Catalan
Cebuano
Chiga
Colognian
Cornish
Corsican
Croatian
Czech
Danish
Duala
Dutch
Embu
English
Esperanto
Estonian
Faroese
Filipino
Finnish
French
Friulian
Fula
Ga
Galician
Ganda
German
Guarani

Gusii
Hausa
Hawaiian
Hungarian
Icelandic
Ido
Igbo
Inari Sami
Indonesian
Interlingua
Irish
Italian
Javanese
Jju
Jola-Fonyi
Kabuverdianu
Kalaallisut
Kalenjin
Kamba
Kikuyu
Kinyarwanda
Koyra Chiini
Koyraboro Senni
Kurdish
Kwasio
Latvian
Lingala
Lithuanian
Lojban
Low German
Lower Sorbian
Luba-Katanga
Luo
Luxembourgish
Luyia
Machame
Makhuwa-Meetto
Makonde

Malagasy
Malay
Maltese
Manx
Māori
Meru
Meta'
Mohawk
Morisyen
Nigerian Pidgin
North Ndebele
Northern Sami
Northern Sotho
Norwegian Bokmål
Norwegian Nynorsk
Nyanja
Nyankole
Occitan
Oromo
Polish
Portuguese
Quechua
Romanian
Romansh
Rombo
Rundi
Rwa
Samburu
Sango
Sangu
Sardinian
Scottish Gaelic
Sena
Shambala
Shona
Sicilian
Slovak
Slovenian
Soga
Somali

South Ndebele
Southern Sotho
Spanish
Sundanese
Swahili
Swati
Swedish
Swiss German
Taita
Taroko
Tasawaq
Teso
Tongan
Tsonga
Tswana
Turkish
Turkmen
Upper Sorbian
Uzbek
Vunjo
Walloon
Walser
Welsh
Western Frisian
Wolof
Xhosa
Yangben
Zarma
Zulu

For languages with multiple scripts or writing systems, only the Latin is supported (unless noted otherwise).

While we take care to ensure our language support is as complete and accurate possible, we can't guarantee that every regional or language-specific variation of a glyph is included. Please get in touch if you need a custom version to better fit your language.

Styles / Instances

Style	wght [1]	ital	OS/2 width/weight class
Thin	200	0	5 / 200
Thin Italic	200	1	5 / 200
Light	300	0	5 / 300
Light Italic	300	1	5 / 300
Regular	400	0	5 / 400
Italic	400	1	5 / 400
Medium	500	0	5 / 500
Medium Italic	500	1	5 / 500
Semibold	600	0	5 / 600
Semibold Italic	600	1	5 / 600
Bold	700	0	5 / 700
Bold Italic	700	1	5 / 700
Black	800	0	5 / 800
Black Italic	800	1	5 / 800
Ultra	900	0	5 / 900
Ultra Italic	900	1	5 / 900

[1] Equivalent to the CSS font-weight attribute.

MD IO Variable (Available on request)

Axis		Min	Max
Weight	(wght)	200	900
Italic	(ital)	0	1

Formats / Sizes

Style	Filesize	Contour Type
OTF	105–112 KB	Cubic (CFF)
WOFF2	36–42 KB	Cubic (CFF)
WOFF	40–47 KB	Cubic (CFF)
Variable TTF	193 KB	Quadratic (TTF)
Variable WOFF2	83 KB	Quadratic (TTF)
Variable WOFF	98 KB	Quadratic (TTF)

General Information

Credits	Designed by Rutherford Craze
	With thanks to the team at Future Fonts, and to everyone who licensed MD IO or provided feedback during the development of the typeface.
File Version	1.002
First Available	January 2021
Released	August 2023
Licensing	MD IO may be used only as permitted by the terms of the Mass-Driver End User License Agreement (EULA). https://mass-driver.com/licensing

mass-driver.com

Supporting text in this document is set in MD System.

Paragraph texts adapted from Wikipedia.