TYPESETTING FOR A GLOGAL WEB

Chen Hui Jing / @hj_chen





TYPESETTING FOR A GLOBAL WEB

You Gotta
Love Frontend
Conference

@Vilnius, Lithuania



Surname First name

Kith 慧晶
Chen Hui Jing



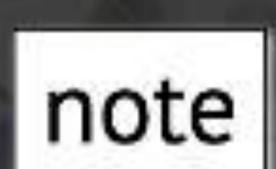
@hj_chen





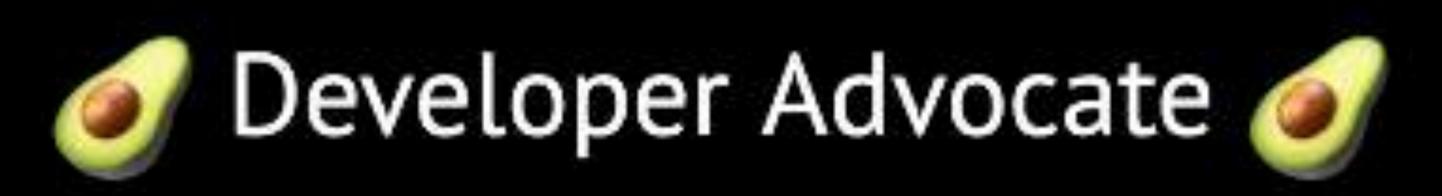
















Typography is the art and technique of arranging type to make written language legible, readable, and appealing when displayed.

– Wikipedia



Typography, the design, or selection, of letter forms to be organized into words and sentences to be disposed in blocks of type as printing upon a page.

-Encyclopedia Britannica



Typography is the visual component of the written word. "

-Matthew Butterick

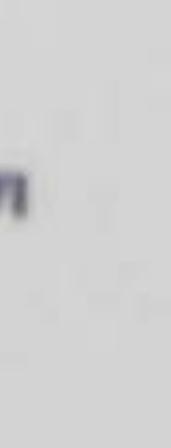




-Gerrit Noordzij

















74 - toky







THE REST AND ADDRESS.

MEDIUS EXET

84 -- PK





CENTRAL ASIA

BC - 9C











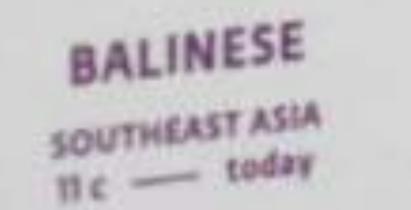


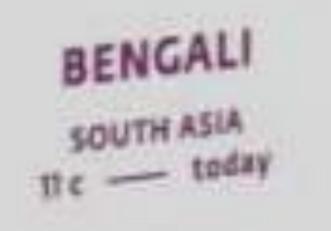
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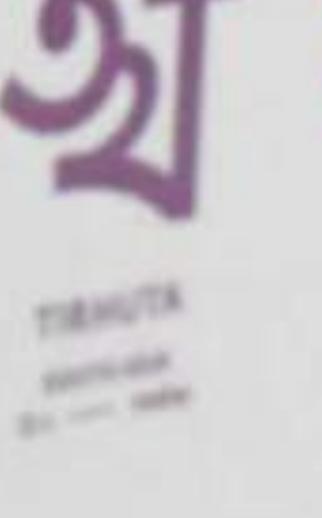












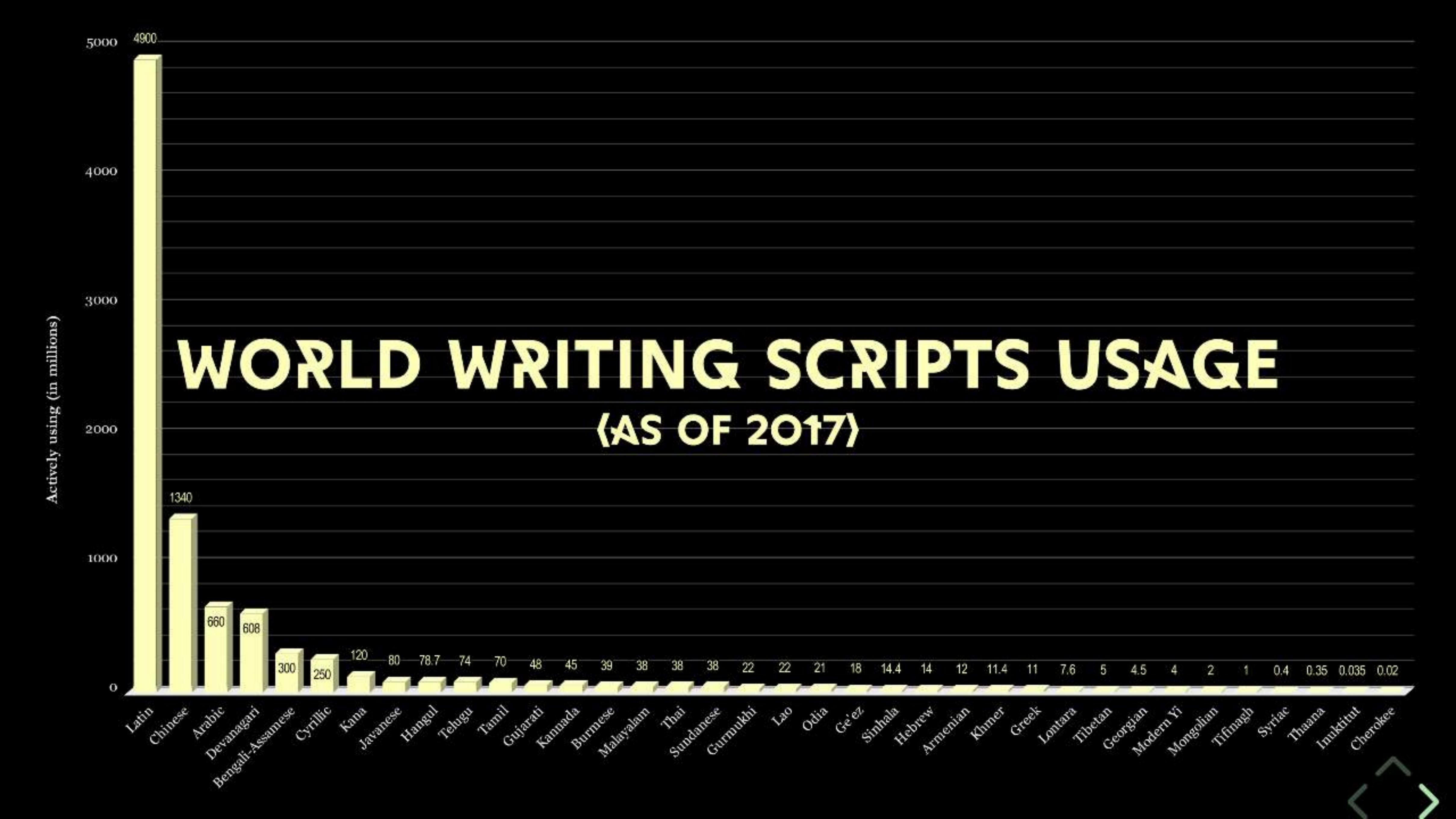














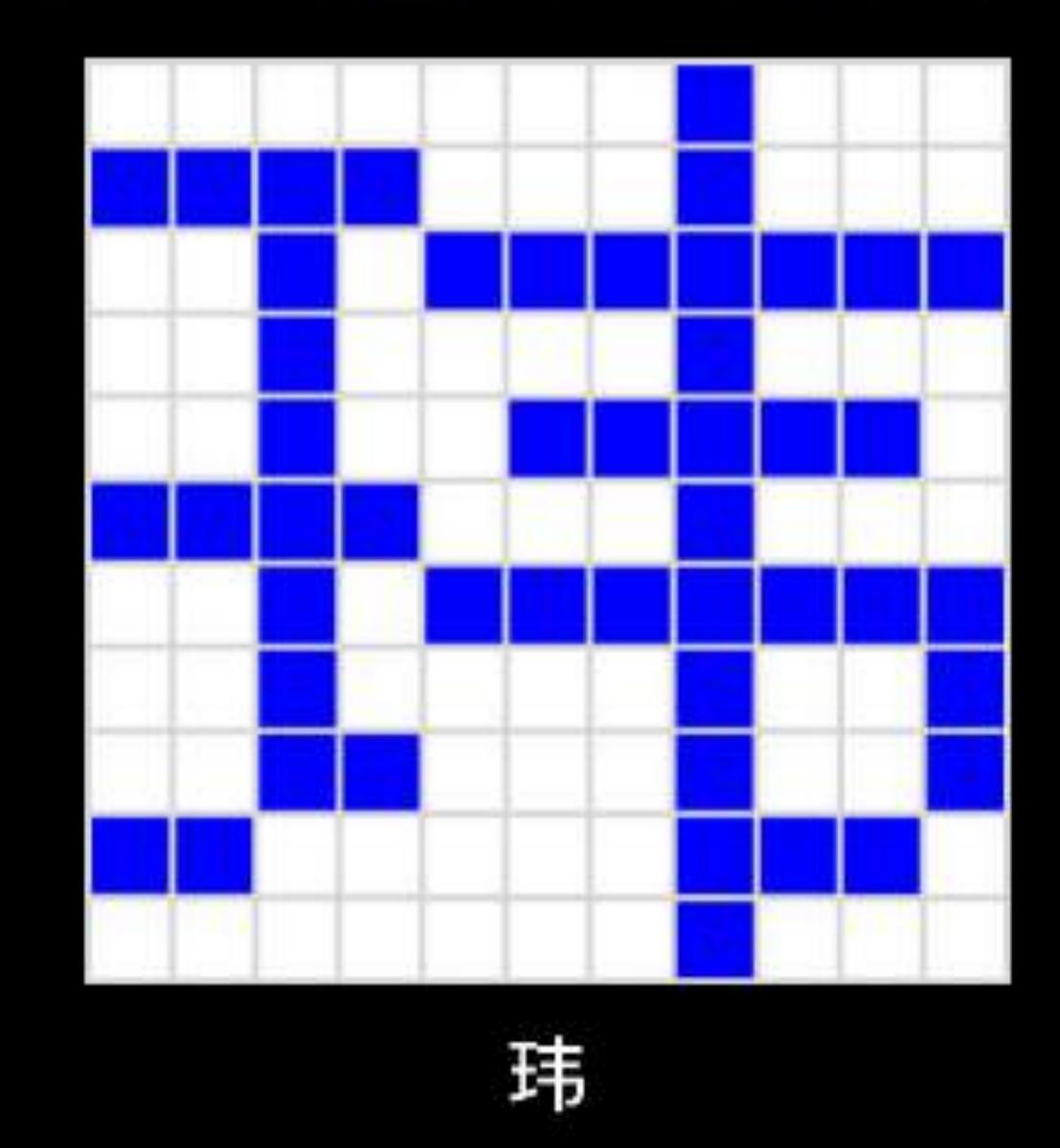
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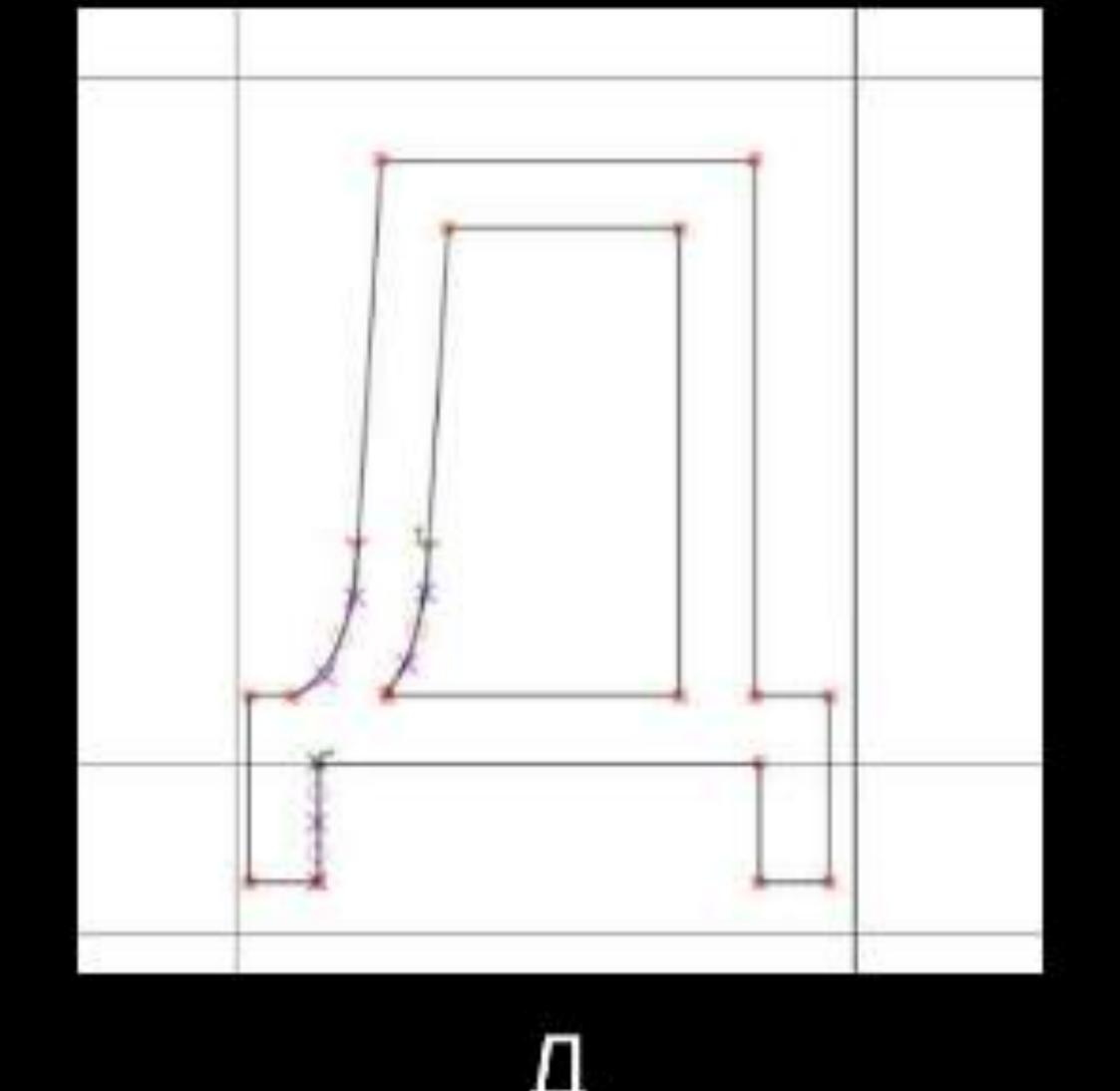
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WHAT ARE GLYPHS?



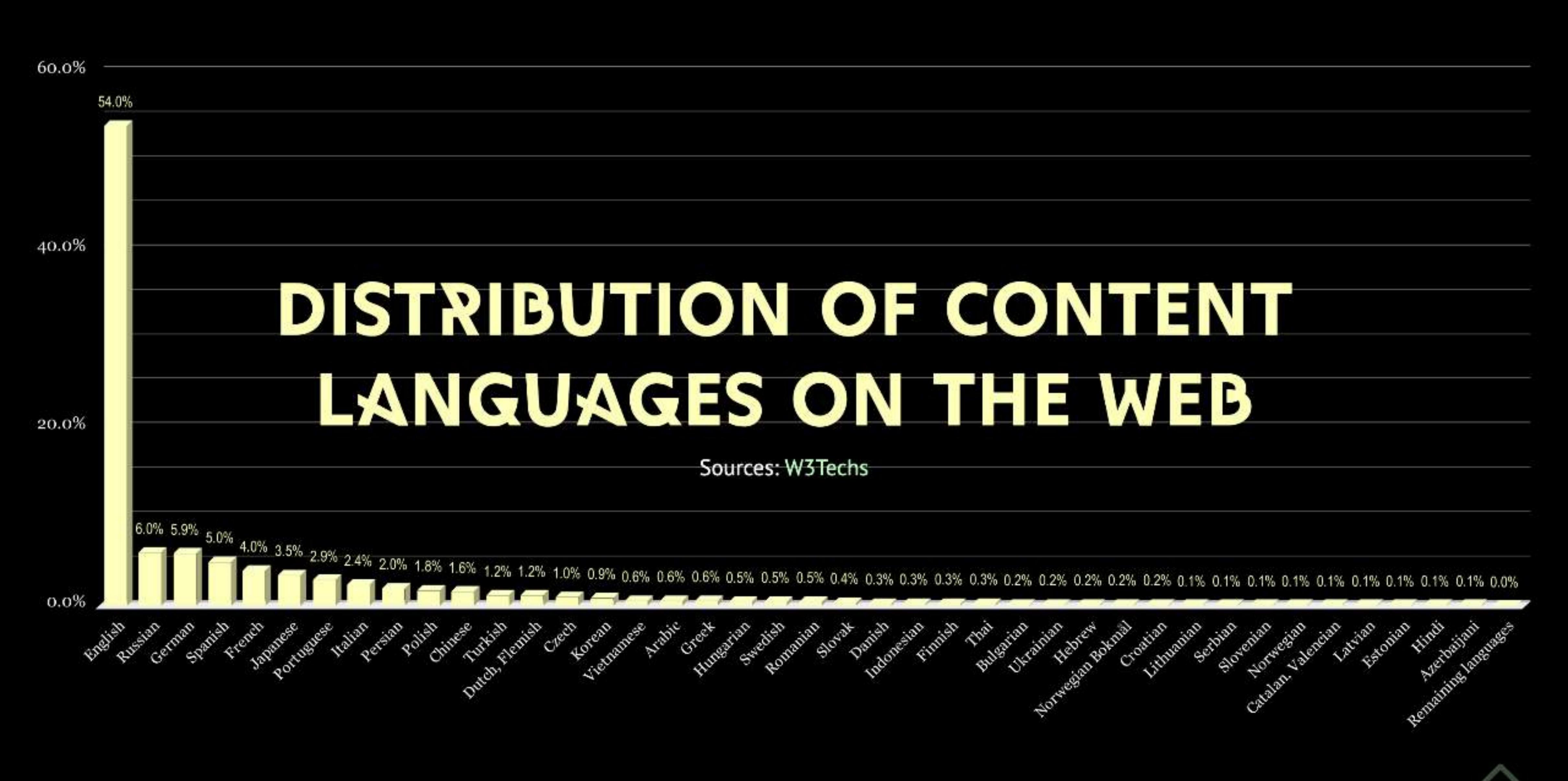


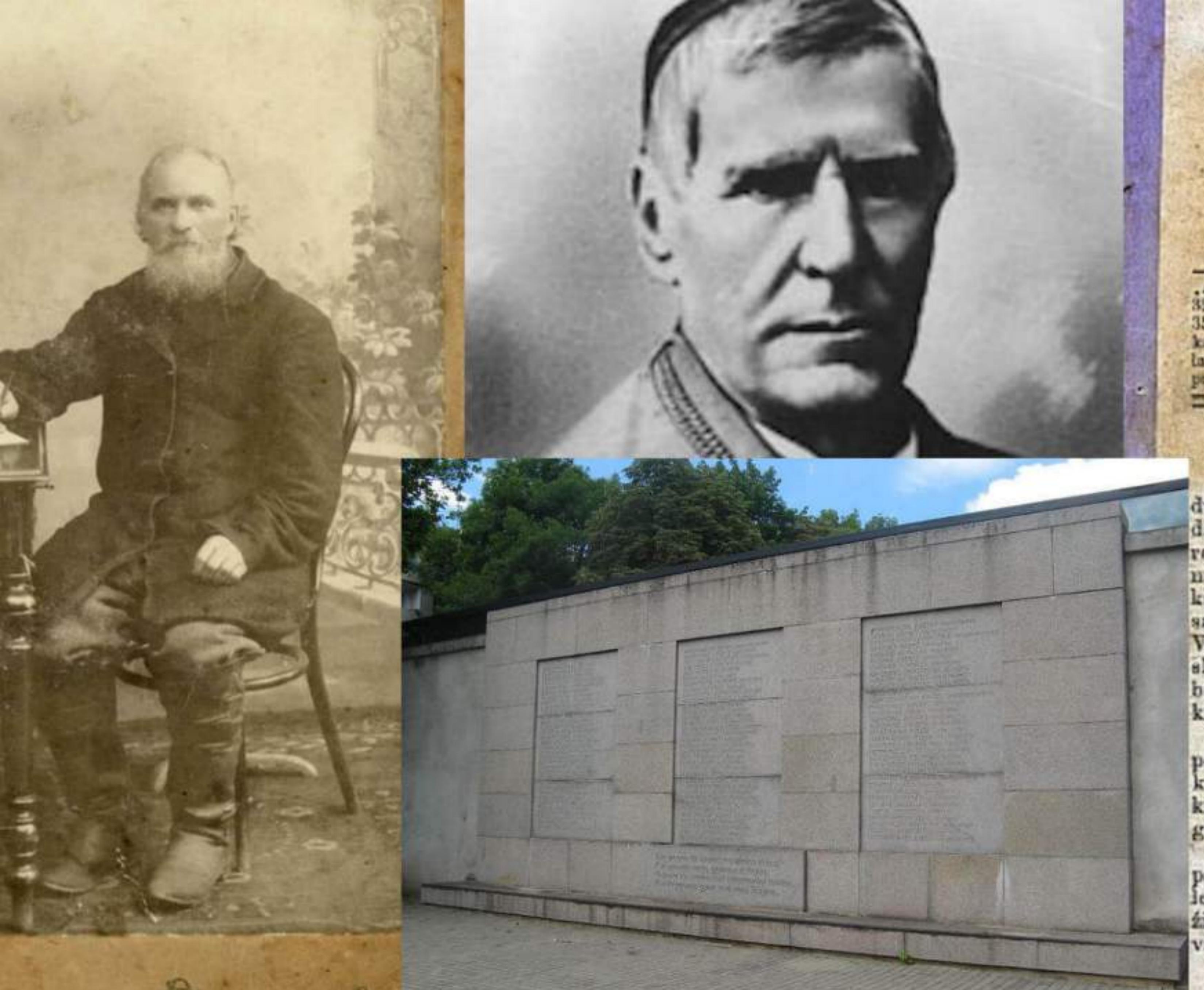


AND WHAT ABOUT FONTS?



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Antras AUSZRA, metas.

Laikrasztis, iszleidźiamas Lietuvos miletoju.

Auszra iszeina Tilisje 20. kożno menesie poviżdije knigutes 32-48 pusiu — Prekis ant motu 4 rubl. 4 mark. Atakiras num. 35 pf. 35 kap. Apparsinimai, redisteje Auszros priimami, kasztuja uż kożna pusiau dalita cilute po 20 pf. 10 kap., laikitojama "Auszros" puse tiek. Vokietijoje galima "Auszru" prie kożnes cocoriszkos karaliszkos pasztos parsikvieniinii.

Dvi "Auszri" Lietuvoje.

Tankiai tai linb' atsitikti, jog žmonės vienos dvasės ir su vienu iszmanimu toli vienas nu kito dirba kožnas viena ir ta pati darba. No retai galime regeti, kaip giesmioriai vienas kito nepažindami ir nu kit's kito neko nežinodami sudeda giesmes vienokios įtalpos ir mislies, kožnas savo žodžiais. Visokiu szaliu kareivisi pasidirbdina sav vienokius ginklus. Visokiose gentėse, kad ir tolimiausiu atstumu perskirtose, randame vienokius budus, įrankius ir pabuklus. Randame visokiose gentėse taipo-gi vienokias patarles, pasakas, burtas vienodus tikėjimus ir t. t.

Ligiai ir su dvejopa "Asuro" Lietuvoje atsitiko per vienokia dvase ir vienoki iszmanima istatitoju, kurie budami tikrais Lietuviais, nors tõh evienas nu kito, kožnas dirba savotiszkai vienoki Jarba ant at-

gaivinimo nikstanozios lietuviszkos kalbos.

Toksai vienodas darbas rodo, jog Lietuviai nu pat sziaurės liki pacziu pietu, nu saulėtekio liki saulė leidžio tur' vienokias mislis ir pajautas; visi ligiai žino ir junta, ko jiems reikia. Ir isz tikro, kaip prie vienos "Auszros" taip ir prie kitos visu Lietuvin

A C

When you lose your language, you lose your soul.

-Ghil'ad Zuckermann





WRITING SYSTEMS ON THE WEB









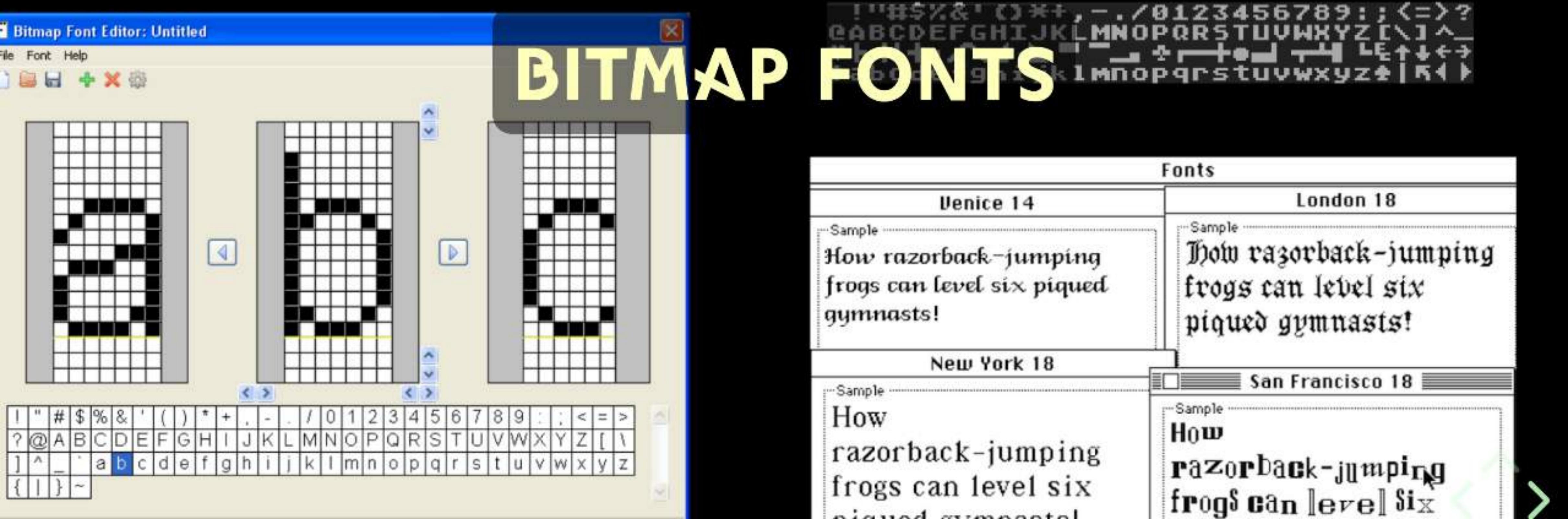
TYPESETTING ON THE WEB

Authors should language-tag their content accurately for the best typographic behaviour.

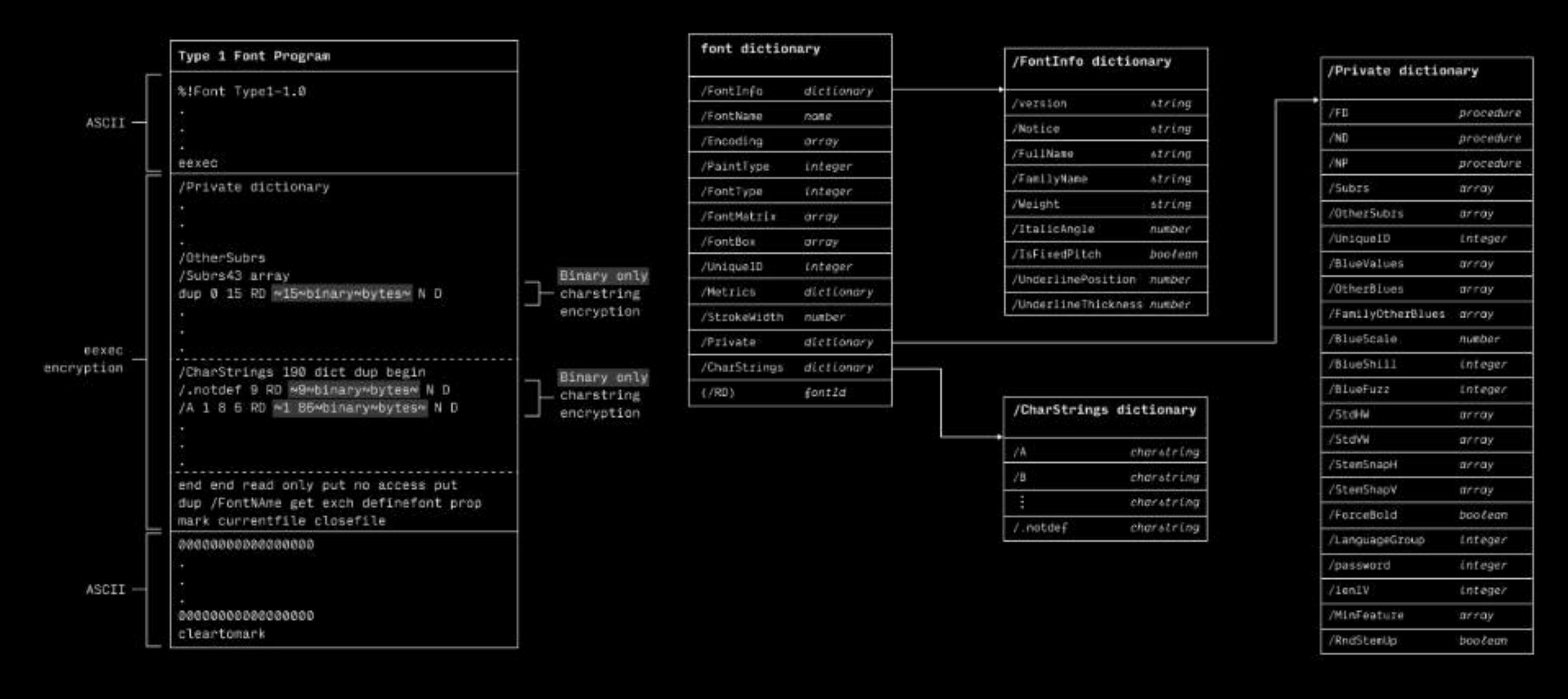
-CSS Text Module Level 3







POSTSCRIPT



Type 1 font program



FONT FORMATS FOR WEB USE

WOFF2 (Web Open Font Format 2) Microsoft moz://a Opera

WOFF (Web Open Font Format) Microsoft moz://a Opera

OTF (OpenType) Microsoft Microsoft

EOT (Embedded Open Type) Microsoft

SVG (Scalable Vector Graphics) W3C* SVG



FONTS ON WEB PAGES

 A pair of numbers in curly braces ({A,B}) indicates that the preceding type, word or group is repeated at least A and at most B times.

5.2 Font properties

Setting font properties will be among the most common uses of style sheets. Unfortunately, there exists no well-defined and universally accepted taxonomy for classifying fonts, and terms that apply to one font family may not be appropriate for others. E.g. 'italic' is commonly used to label slanted text, but slanted text may also be labeled as being *Oblique*, *Slanted*, *Incline*, *Cursive* or *Kursiv*. Therefore it is not a simple problem to map typical font selection properties to a specific font.

CSS1 defines the properties <u>'font-family'</u>, <u>'font-style'</u>, <u>'font-variant'</u> and <u>'font-weight'</u>, <u>'font-size'</u>, <u>'font'</u>.

5.2.1 Font matching

Because there is no accepted, universal taxonomy of font properties, matching of properties to font faces must be done carefully. The properties are matched in a well-defined order to insure that the results of this matching process are as consistent as possible across UAs (assuming that the same library of font faces is presented to each of them).

FONT

Requires start and end tags. This allows you to change the font size and/or color for the enclosed text. The attributes are: SIZE and COLOR. Font sizes are given in terms of a scalar range defined by the user agent with no direct mapping to point sizes etc. The font element may be phased out in future revisions to HTML.

size

This sets the font size for the contents of the font element. You can set size to an integer ranging from 1 to 7 for an absolute font size, or specify a relative font size with a signed integer value, e.g. size="+1" or size="-2". This is mapped to an absolute font size by adding the current base font size as set by the BASEFONT element (see below).

color

Used to set the color to stroke the text. Colors are given as RGB in hexadecimal notation or as one of 16 widely understood color names defined as per the BGCOLOR attribute on the BODY element.

Fonts section in CSS1 (17-Dec-1996)

Font tag in HTML3.2 (14-Jan-1997)



BRIDGING A FONT REFERENCE WITH FONT DATA

3. Adding WebFonts to CSS

The font description provides the bridge between a font reference (within a stylesheet) and the font data, which is the data needed to format text and to render the glyph representations to which the characters map - the actual scalable outlines or bitmaps. Fonts are referenced by style sheet properties. The font description is used to select the relevant font data. The font description consists of descriptors which provide the location of the font data on the Web, and/or characterize that font data. The font descriptors are also used to match font references with the correct font description.

Font descriptors may be classified into three types:

- those that provide the link between the CSS usage of the font and the font description these have the same names as the corresponding CSS font properties
- 2. the URL for the location of the font data
- those that further characterize the font, to provide a link between the font description and the font data

Font descriptions are contained in an at-rule. At-rules - so called because they start with the e symbol - were introduced in CSS 1 where they were used to import other stylesheets. Ordinary CSS rules start with a selector, and apply solely to the selected HTML elements. At-rules have no selector, and apply to the whole style sheet.

The general form of this new at-rule is

```
"@font-face { <font description> }"
```

where the font description has the form

```
descriptor: value;
descriptor: value;
[...]
descriptor: value;
```

For example, here the font 'Robson Celtic' is defined and referenced in a style sheet contained in an HTML document.

SELECTION OF

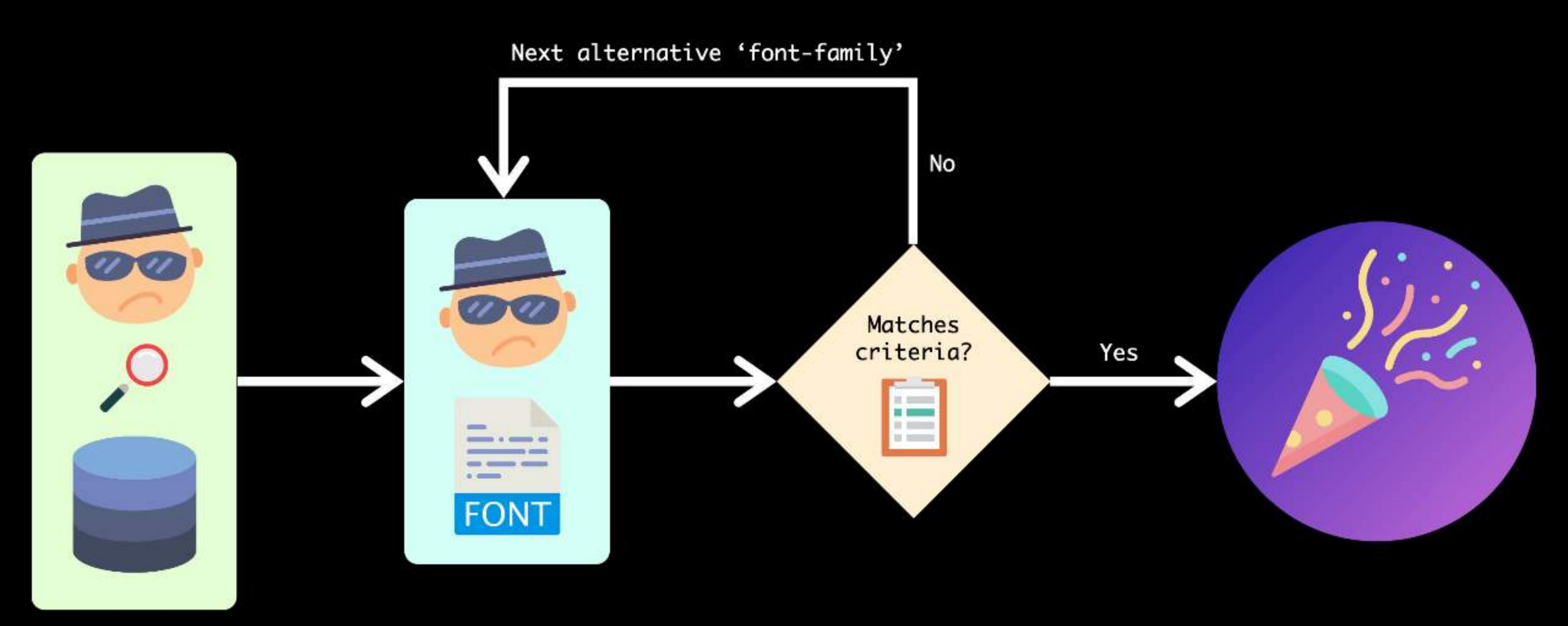
GENERIC FONT FAMILIES

Dependent on OS, HTML language, character set and browser.

serif	Times New Roman, SimSun, SongTi SC
sans-serif	Arial, Microsoft Yahei, PingFang SC
monospace	Consolas, SimSun, PingFang SC
cursive	Comic Sans MS, Apple Chancery, SimSun (oblique), SongTi SC (oblique)
fantasy	Gabriola, Impact, Papyrus, Microsoft Yahei, PingFang SC

Level 4 is adding system-ui, emoji, math and fangsong







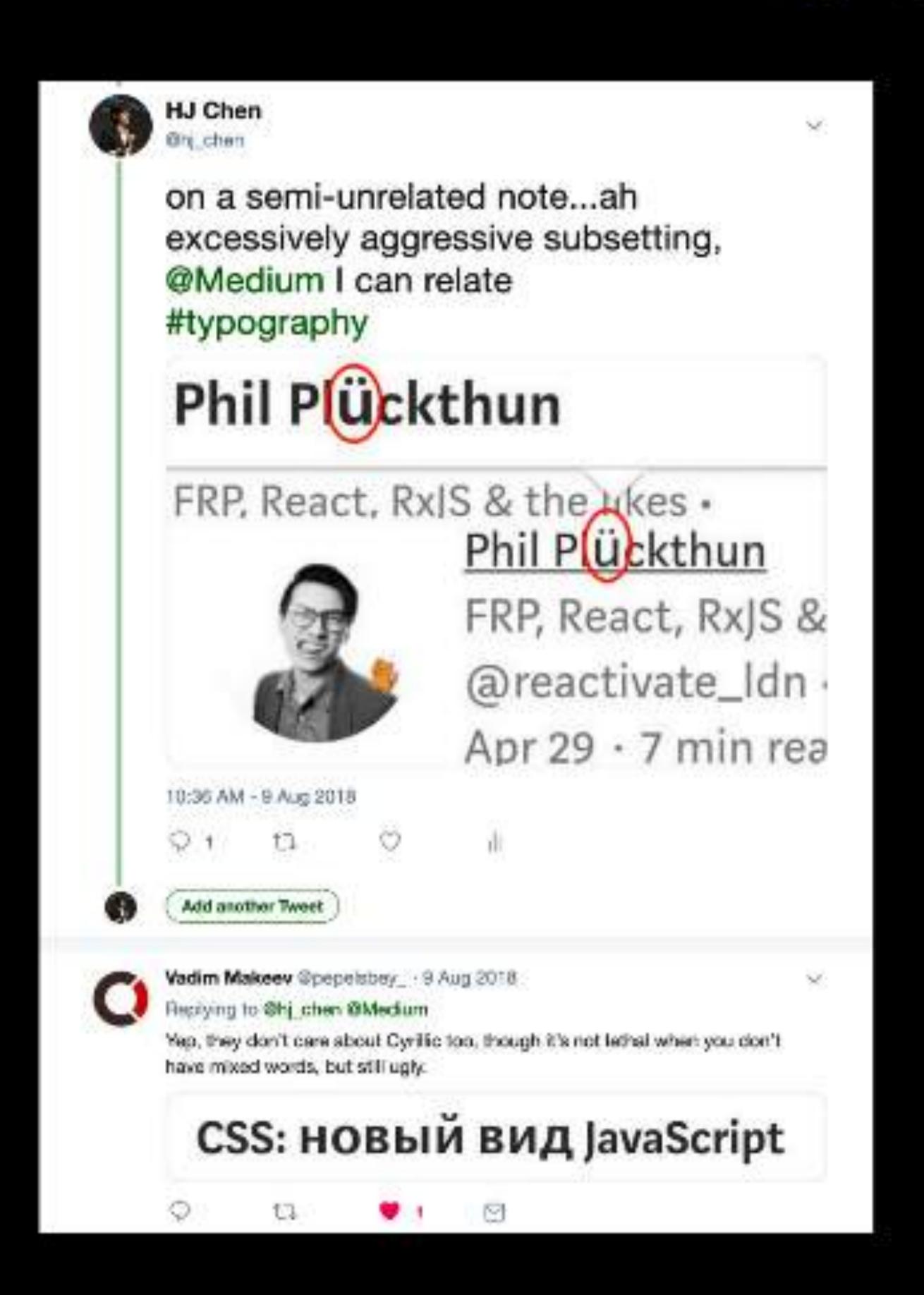
FONT STACKS

```
/* This text is in Lucida Grande */
.sans {
   font-family: Lucida Grande, Lucida Sans Unicode, Lucida Sans, Geneva, Verdana, sans-s
}

/* A typical Chinese font stack, declare Latin fonts first */
.zh-hans {
   font-family: Tahoma, Helvetica, Arial, "Microsoft Yahei", "微软雅黑", STXihei, ":
}
```



SUBSETEAL

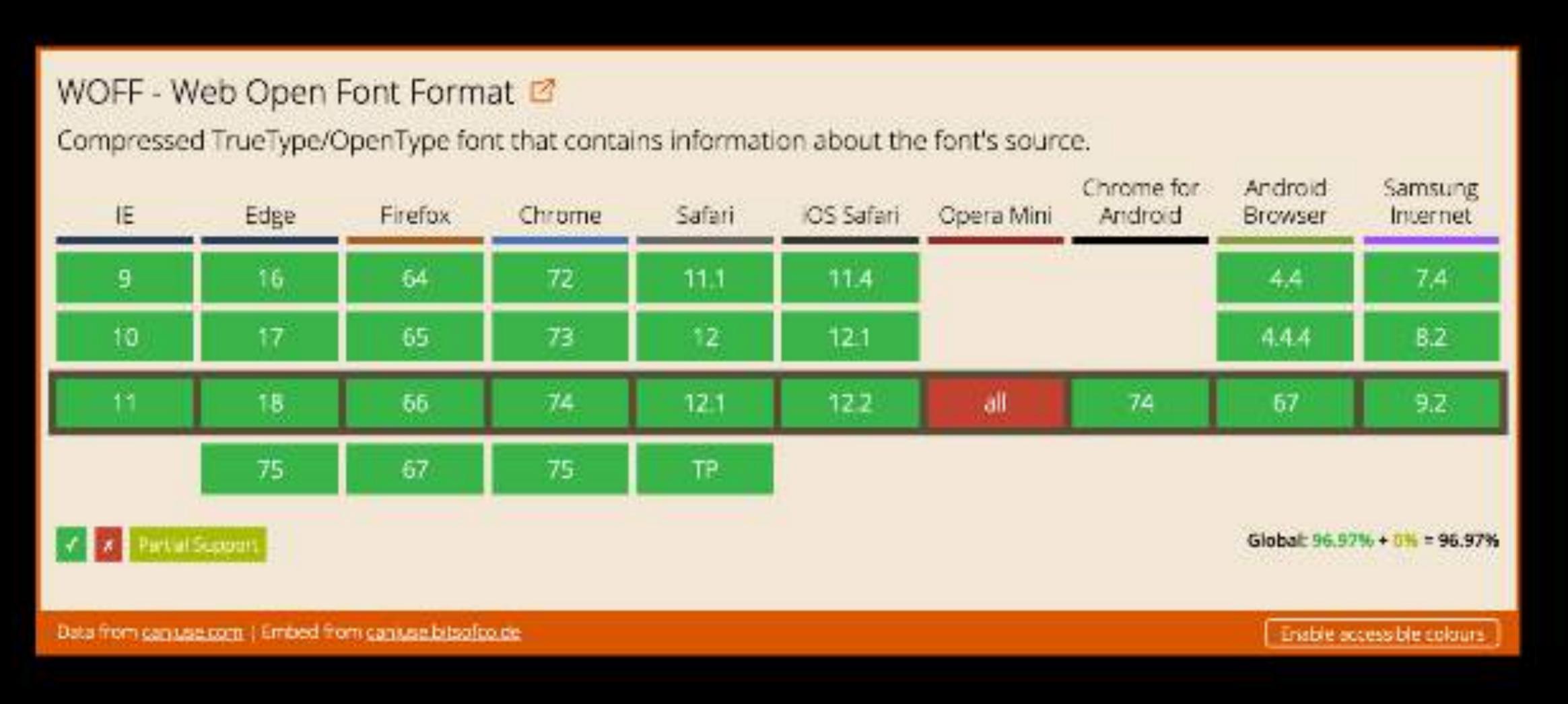


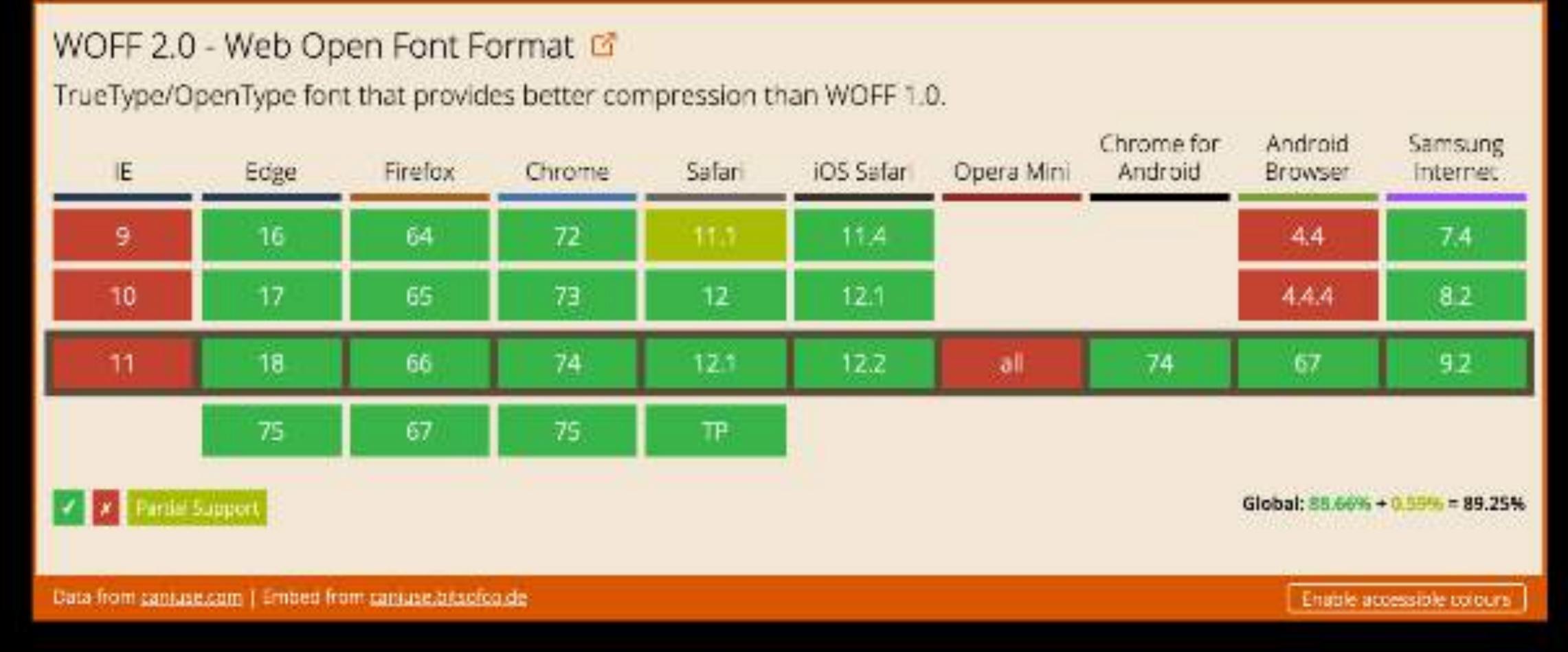


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X	032 4E0	832 50A	832 534	932 55E	832 588	032 582	932 500	832	632	X	832 684	032 SAE	032 608
X	632 40F	932	032 533	932 550	032 587	032 591	532 508	632	032 62F	X	683	832 6AD	832 607
X	40E	032 508	532	932 550	585	032 580	532 50A	032 604	632 62E	X	032	832 6AC	032
032 493	032 400	032 507	832 531	022 558	832 585	032 5AF	032 505	632	832 620	832 657	032 581	822 5A9	032
X	X	932	032 538	832 55A	032 584		032 508	832 682	032 620	X	832 688	032 6AA	X
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X	X	832 4F4									IE SEI	032 629	032 6C2
X	X	632 4F3									15.501	0222 597	032 6C1
\times	X	832 4F2	032 510	032 546	032 578	032 59A	032 5C4	832 SEE	032 618	032 642	832 660	032 696	832 600
	X	032 4F1	832 518	932 545	832 56F	532	522 5C2	832 SED	632 617	832	837	832 695	032 685
X	X	032 4F0	032 51A	932 544	032 56E	538	032 502	932 5EC	032	032 640	832 65A	032 634	032 695
X	X	832 4EF	832 519	932 543	522 560	032 557	937 501	032 558	032 615	032 63F	032	822 623	032
\times	X	032 4EE	832 518	022 542	932 560	596	032 500	032 58A	832	832 632	032 668	022 592	032 680
\times	X	032 450	032 517	032 541	032 568	032 595	032 58F	832 5E9	032 613	632 630	832 667	032 691	032
X	932 4C2	032 4EC	032 516	932 540	832 56A	594	532	932	832 612	832 63C	837	932 698	032 68A
X	032 451	032 4EB	032	932 53F	032	533	032 580	832 567	032	638 638	032	032 68F	032
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@FONT-FACE RULE

```
@font-face {
   font-family: 'Bellato';
   src: url('Bellota-Regular.woff2') format('woff2'),
       url('Bellota-Regular.woff') format('woff');
}
```





ANATOMY OF AN Ofont-face RULE

```
@font-face {
   font-family: <family-name>;
   src: [ <url> [format(<string> #)]? | <font-face-name> ] #;
   font-style: normal | italic | oblique ;
   font-weight: normal | bold | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900
   font-stretch: normal | ultra-condensed | extra-condensed | condensed | semi-condunicode-range: <urange> #;
   font-variant: normal | none | [ <common-lig-values> || <discretionary-lig-values
   font-feature-settings: normal | <feature-tag-value> #;
}
```

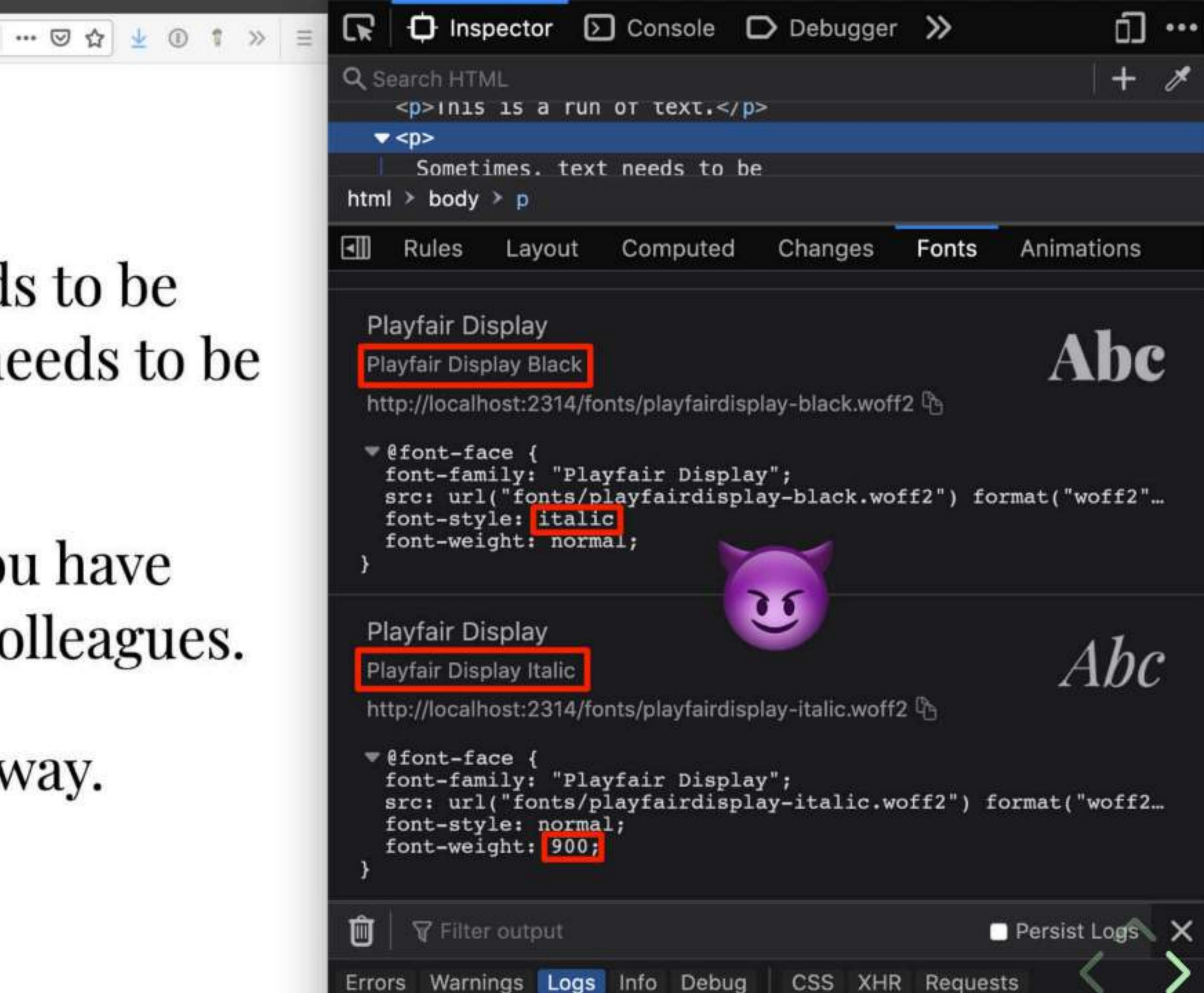


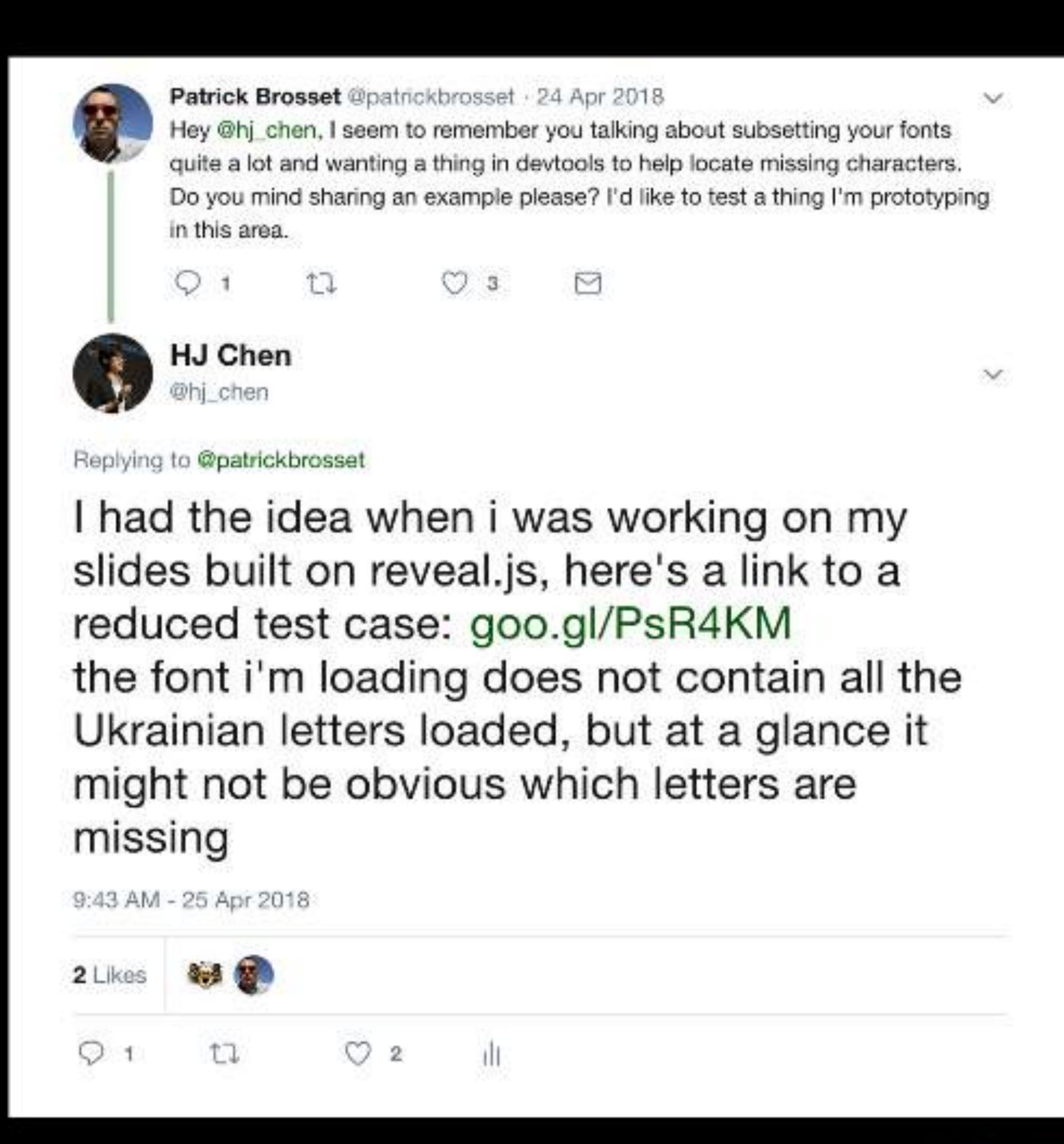
This is a run of text.

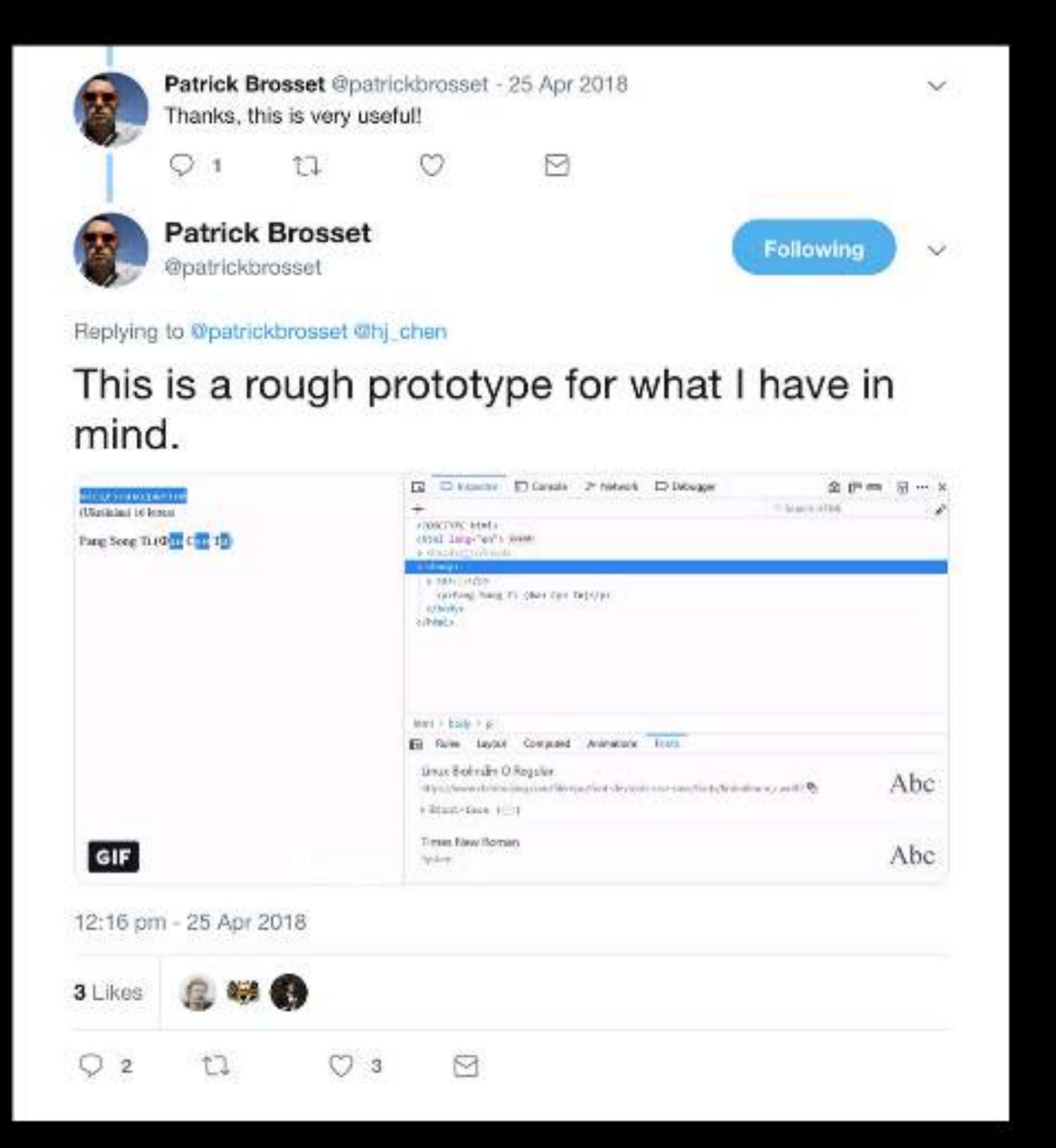
Sometimes, text needs to be *bold*, other times, it needs to be **italic**.

Life is tricky when you have annoying people as colleagues.

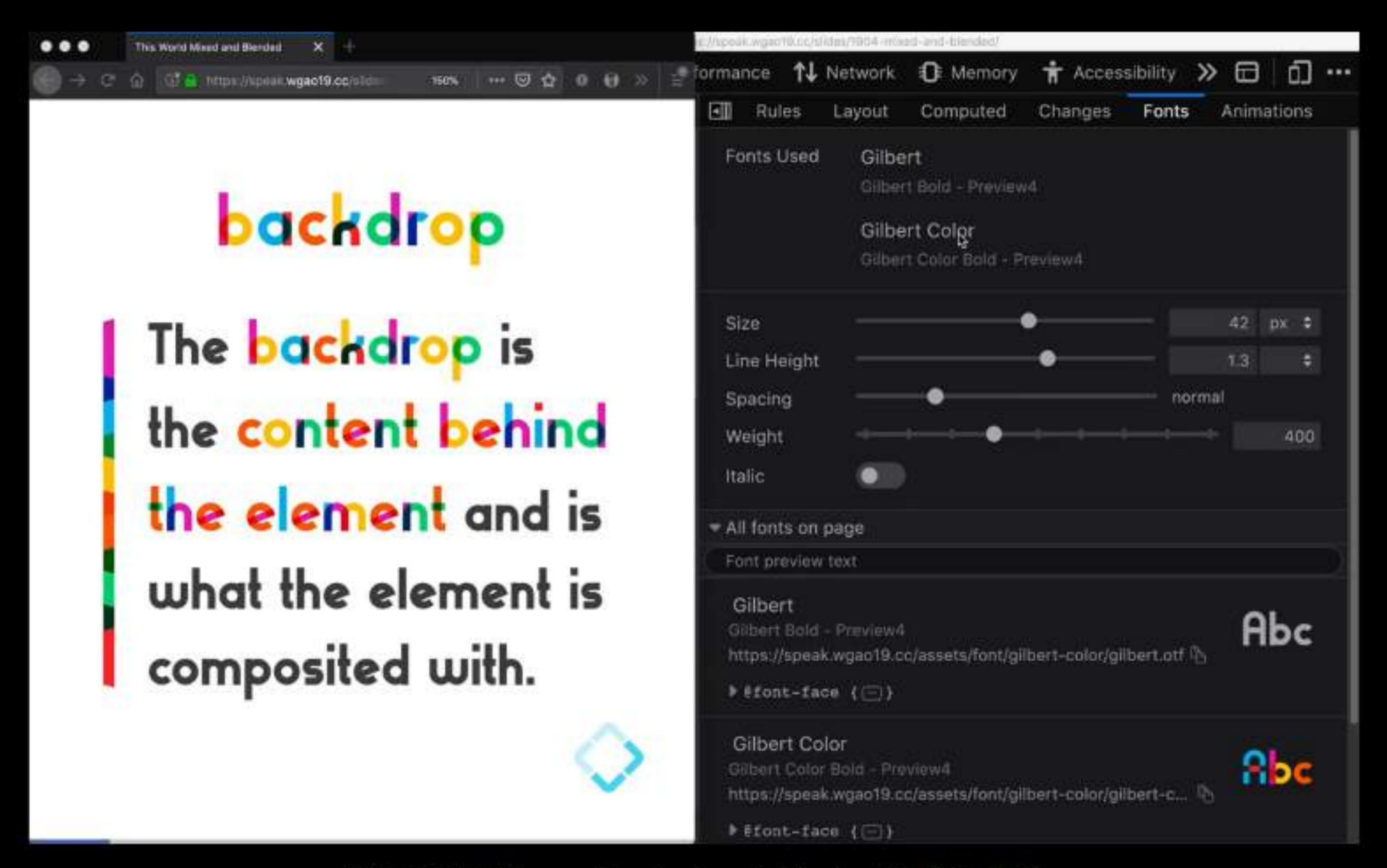
Please love them anyway.







Firefox Font Tools



Slides for This world mixed and blended by Gao Wei.



Raleway



Multiple Designers (18 styles)

This font does not support Cyrillic characters

Comfortaa



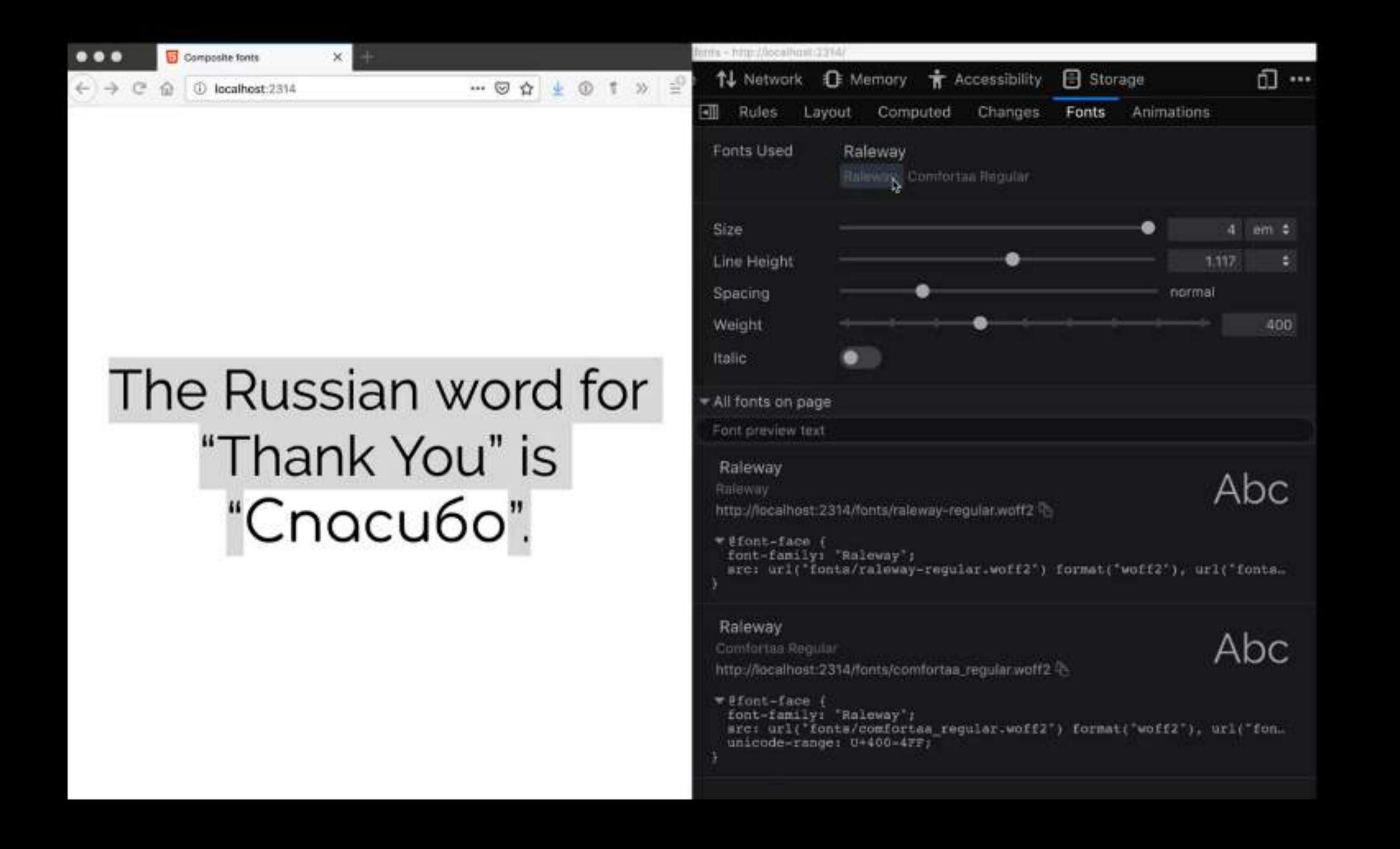
Johan Aakerlund, Cyreal (5 styles)

Этот шрифт поддерживает символы кириллицы



```
@font-face {
  font-family: 'Raleway';
  sic: uil('fonts/ialeway-regular.woff2') format('woff2'),
       url('fonts/raleway-regular.woff') format('woff');
    no range specified, defaults to entire range */
@font-face {
  font-family: 'Raleway';
  sic: url('fonts/comfortaa_regular.woff2') format('woff2'),
       url('fonts/comfortaa_regular.woff') format('woff');
  unicode-range: U+0400-U+04FF; /* Unicode range for Cyrillic characters */
```





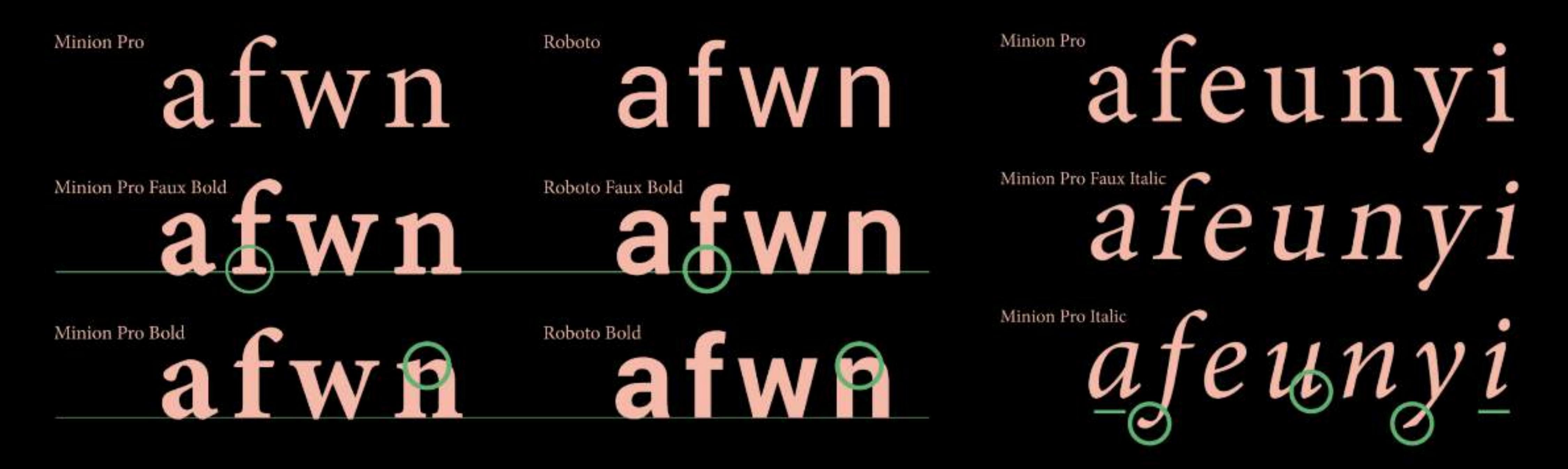


CSS FONT PROPERTIES

font-size	Indicates the desired height of the glyphs. Takes absolute or relative values.	
font-weight	Specifies the weight of the glyphs in the font. Can use keywords or numerical values.	
font-style	Allows italic or oblique faces to be selected.	
font-stretch	Selects a normal, condensed or expanded face from a font family. Range spans over 9 keywords.	
font-size-adjust	Adjusts the font-size to preserve the x-height of the first choice font.	
font-synthesis	Controls whether user agents are allowed to synthesize bold or oblique font faces when missing.	



font-synthesis



Faux bold effect

lmage credit: Piotr Grochowski



Faux italic effect

VARIABLE FONTS

ORAGONS

Space 110 Weight 500



也表灼灼災災灾灾灿炀炁炁炂炂炂炃炃炃炄炄炄煛狊炆炆炆炆炈炈炉炉炊炊 息熄熅熅熆熆熆熇熅熈熈熉熉熊熊熊熊熋熌熌熍熍熎熎熏熐熐熼熑熑滎褮 會燒燒燒燒煸煸 字字特特牺牻塊 Source Hans Serif (65,535 glyphs) 宗猕猕猖猗猘狷 月玦玦玧玧玫玩 青猝猝猞猟猠猡猢猢狻^{瑏瑏瑏瑐瑐瑐瑑瑑瑒瑓瑔}瑕瑖聚 龍塘塘水飲於於於養素物的繁素幹的新菜繁塑的菜類。 這種類類類類類類類類類的 一定時期的 一定時

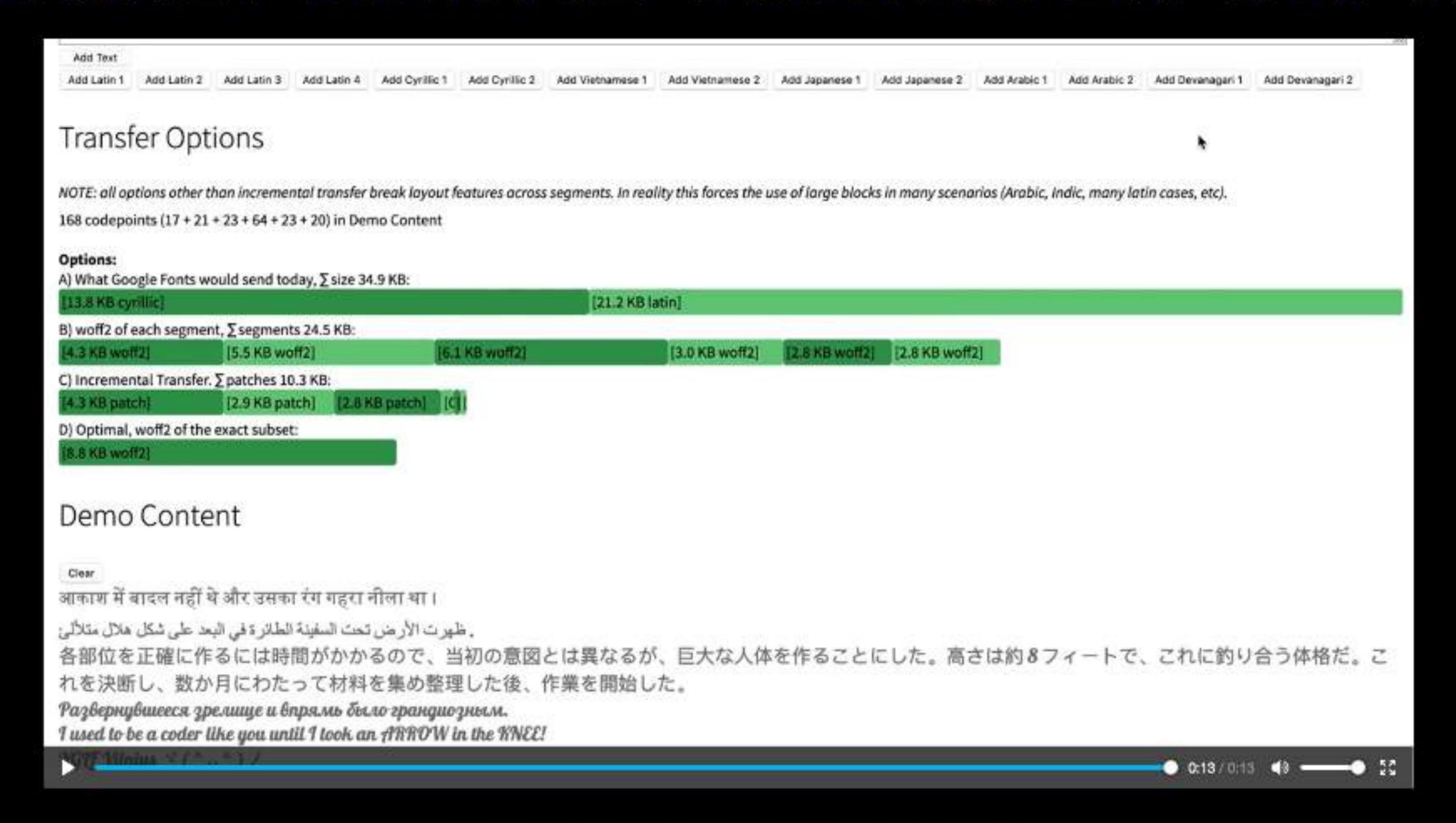
PROGRESSIVE FONT ENRICHMENT

to enable the ability for only the required part of the font be downloaded on any given page, and for subsequent requests for that font to dynamically 'patch' the original download with additional sets of glyphs as required on successive page views—even if they occur on separate sites

-Jason Pamental on Web Fonts & Typography News #11



INCREMENTAL TRANSFER DEMO



PULL TO TOP AJPOSAGE

li, l'm Jason

My name is Jason Pamental. I'm a design strategist, UX leader, technologist, expert in web typography, and Invited Expert on the W3C Web

Font: http://eepurl.com/ghd9b9/

spoken with organizations like Adobe, Audible, Condé Nast, Go-Daddy, IBM—and given presentations and workshops at conferences all over the world. I also publish a newsletter on web typography.

Type is how we 'hear' what we read

Since the introduction of Variable Fonts in late 2016, I've spent a good deal of time researching, writing about, and working with them, and am

OPENTYPE FEATURES

abvf abvm abvs afrc akhn blwf blwm blws calt case ccmp cfar cjct clig cpct cpsp • cswh

aalt

halt curs cv01 – cv99
 hist hkna c2pc hlig c2sc dist hngl hojo dlig hwid dnom init dtls isol expt falt ital jalt • fin2 fin3 jp78 jp83 fina jp90 flac jp04 frac fwid kern half Ifbd

haln

liga

ljmo Inum locl ltra ltrm mark med2 medi mgrk mkmk mset nalt nlck nukt numr onum opbd

ordn

- ornm palt pcap pkna pnum pref pres pstf psts pwid qwid rand rclt rkrf rlig rphf rtbd rtla
- rvrn salt sinf size smcp smpl ss01 ss02

• rtlm

ruby

ss11

ss12

ss13

ss14

ss15

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ss17

ss18

ss19

ss20

ssty

stch

subs

sups

swsh

tjmo

tnam

titl

 ss03 ss04 ss05 ss06 ss07 ss08 ss09 ss10

- tnum
- trad
- twid
- unic
- valt
- vatu
- vert
- vhal
- vjmo
- vkna
- vkrn
- vpal
- vrt2
- vrtr
- zero



FONT FEATURE PROPERTIES

font-kerning









font-variant-position

$$AVW_{10}W_{16}V_{13}V_{13}$$
 $C_{10}H_{16}N_{5}O_{13}P_{3}$ $C_{10}H_{16}N_{5}O_{13}P_{3}$

font-variant-positionligatures

font-variant-numeric

1st 17th 2a
$$\blacktriangleright$$
 1st 17th 2a
4000 \blacktriangleright 4000 Lining Old-Style
2 1/3 \blacktriangleright 2 $\frac{1}{3}$ 367,112 367,112
2 1/3 \blacktriangleright 2 $\frac{1}{3}$ 155,068 155,068
2 1/3 \blacktriangleright 2 $\frac{1}{3}$ 171,792 171,792

font-variant-caps

The DOM, the HTML syntax, and the XHTML syntax cannot all represent the same content. For example, namespaces cannot be represented using the HTML syntax, but they are supported in the DOM and in the XHTML syntax.

font-variant-alternates



font-variant-east-asian

Allows control of glyph substitution and sizing in East Asian text

一個簡體字可能對應多個繁體字,如簡體字「發」,其相應的繁體字可能為「發」或「髮」;一個繁體漢字對應多個簡體漢字的情況與前者相比數量極少但仍需註意,如繁體字「乾」可能對應簡體字「幹」或「乾」。繁簡漢字的對應關係具體應由上下文決定。

茨

```
.fvea .han {
   font-variant-east-asian:
   traditional;
}

.fvea .jap {
   font-variant-east-asian:
   jis78;
}
```



font-language-override

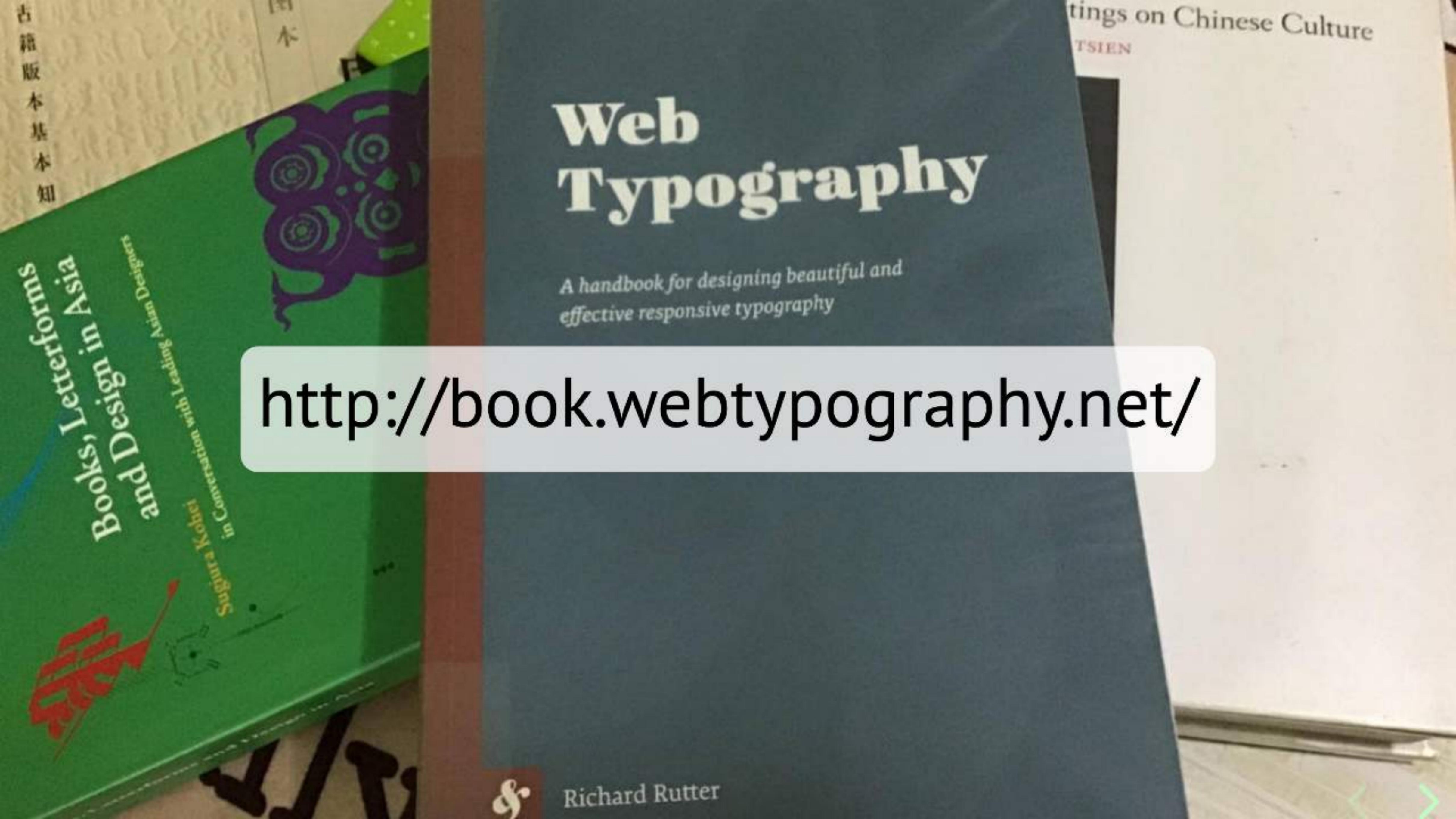
To control the use of language-specific glyph substitutions and positioning

```
body {
   /* Serbian OpenType language tag */
   font-language-override: "SRB";
}
```

Example lifted from CSS Fonts Module Level 4







GOLDEN RULES FOR WEB TYPOGRAPHY

BY RICHARD RUTTER

- 1. Don't trust computers
 - 2. Use the default font size for paragraph text
 - 3. Adjust type size according to reading distance
 - 4. Adjust the font size if the typeface requires 9. Optimise page render timing it
- 5. Set tables to be read

- 6. Set text at display sizes, even on small screens
- 7. Resize display text as you would an image
- 8. Reduce your payload
- 10. Learn to use variable fonts

Web Typography @ CSS Day 2018



THE text-transform PROPERTY

IF I WANT [FLOWERS], I'M GOING TO SEND THEM TO MYSELF.

SÜSSE SOSSEN-KLÖSSE GENIESSEN MASSGEBLICH GEFRÄSSIGE PREUSSISCHE NUTZNIESSER.

ΟΥΔΈΝ ΚΑΚΌΝ ΑΜΙΓΈΣ ΚΑΛΟΎ.

アイウエオカクケ

```
.txt-trans p {
  text-transform: uppercase;
}
```



LINE BREAKS IN INLINE BOXES

If an element generates zero boxes, was it really there at all?

```
If an element
<em>generates zero boxes</em>, was it
<strong>really there</strong> at
all?
```

```
.linebox p.line-container {
  font-size: 150%;
}
.linebox .line-container em {
  background-color: limegreen;
  padding: 0.25em;
  mix blood mode: color:
```



CSS FOR CONTROLLING LINE BREAKS

line-break	allows choosing various levels of "strictness" for line breaking restrictions
word-break	controls what types of letters are glommed together to form unbreakable "words", causing CJK characters to behave like non-CJK text or vice versa
hyphens	controls whether automatic hyphenation is allowed to break words in scripts that hyphenate
overflow-wrap	allows the UA to take a break anywhere in otherwise-unbreakable strings that would otherwise overflow

Line breaking by Florian Rivoal @ dotCSS



HYPHENATION

If you don't give a lang attribute, you don't get automatic hyphenation.

-Florian Rivoal

Browsers use language-specific dictionaries to figure out where the hyphenation points should be.



text-align & text-justify

- Sets the text-align-all and text-align-last properties
- Describes how the inline-level content of a block is aligned along the inline axis if the content does not completely fill the line box.

```
text-align: start | end | left | right | center | justify | match-parent | justify
```

Values other than justify-all or match-parent are assigned to text-align-all and reset text-align-last to auto.

Selects the justification method used when a line's alignment is set to justify

```
text-justify: auto | none | inter-word | inter-character
```



About 93,800,000 results (0.61 seconds)

As you can see, the **text** is aligned to the left margin meaning that not all of the **text** will align to the right margin. Here's an example of **justified website text**. As you can see, the **text** is aligned to both the left margin and right margins, meaning that each line will be the same length.

Call me Ishmael. Some years ago – never mind how long precisely – having little or no money in my purse, and nothing particular to interest me on shore, I thought I would sail about a little and see the watery part of the world. It is a way I have of driving off the spleen and regulating the circulation. Whenever I find myself growing grim about the mouth; whenever it is a damp, drizzly November in my sout; whenever I find myself involuntarily pausing before coffin warehouses, and destending the coffin warehouses, and

Don't use fully justified text alignment on your website https://dmjcomputerservices.com/blog/why-you-shouldnt-align-html-justify/

About this result Feedback

People also ask

Should I justify text?

How do I manually justify text?

How do you justify text in CSS?

What is causing the text to be justified?

Feedback

TEXT ALIGNMENT AND JUSTIFICATION

定义了CSS如何支持各种不同国际化语言的书写模式,例如 拉丁(Latin)语系及印度(Indic)语系采用从左到右的书 写模式,希尔伯特语(Hebrew)或阿拉伯语(Arabic)采 用从右到左的书写模式,一些混合了拉丁语和阿拉伯语的 文字可能采用双向书写(bidirectional),而一些东亚文字 则需要竖排(从上到下)的书写模式。

```
.txt-algn p {
  text-align: justify;
  text-justify: inter-
character;
}
```



VERTICAL TEXT ON THE WEB

CSS Writing Modes Level 3 defines CSS features to support for various international writing modes, such as left-to-right (e.g. Latin or Indic), right-to-left (e.g. Hebrew or Arabic), bidirectional (e.g. mixed Latin and Arabic) and vertical (e.g. Asian scripts).

writing-mode PROPERTY

horizontal-tb	从1987到现在
vertical-rl	到现在从1987
vertical-lr	从1987
sideways-rl*	从1987 到现在
sideways-lr*	从1987 到现在

Properties marked with * have been deferred to Writing Modes Level 4.

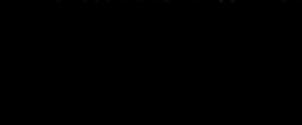


text-orientation PROPERTY

mixed

到现 upright

sideways



text-combine-upright PROPERTY



Codepen example for text-combine-upright



Cuba

缍 夕已 Lithuania

多性 义

ienstein



NOT JUST FOR EAST ASIAN TEXT

Kaip ąžuol's drūt's prie Nemunėlio Lietuvis nieko neatbos! Kaip eglė ten prie Šešupėlės Ir vėtroj, ir žiemą žaliuos!

Lietuviais esame mes gimę, Lietuviais norime ir būt! Tą garbę gavome užgimę, Jai ir neturim leist pražūt!

```
text-orientation: upright;
.wm-cont2 .vert-lr {
 writing-mode: vertical-lr;
 color: #f69d9d;
.wm-cont2 .rotate {
 transform: rotate(180deg);
 color: #c0ffc2;
wm-cont2 {
```



Learn Find Join Follow Contact



The W3C Internationalization (I18n) Activity works with W3C working groups and liaises with other organizations to make it possible to use Web technologies with different languages, scripts, and cultures. From this page you can find articles and other resources about Web internationalization, and information about the groups that make up the Activity. Read also about the opportunities to participate and fund work via the new Sponsorship Program.

Learn more about the Activity...

Recent highlights

- New resource: Short i18n review checklist March 7, 2019
- Working Group Note: Character Model for the World Wide Web: String Matching February 4, 2019
- One new, one updated article published January 23, 2019
- Article published: Approaches to line-breaking August 13, 2018
- For 2nd review: Approaches to line breaking July 26, 2018
- W3C launches Internationalization Initiative July 10, 2018
- For review: Approaches to line breaking June 13, 2018
- For last call review: Character Model for the World Wide Web: String Matching May 8, 2018

All news

March 7, 2019

New resource: Short i18n review checklist

The Short i18n review checklist points developers of specifications to various aspects of a spec that may need internationalization review. It can also be used by spec reviewers, to get an idea of what to look for in a spec.

Only 12 items long, it follows the format: if the spec or its implementation does X then check Y, and points to the relevant parts of the detailed checklist for more information.

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Quick links

- Current projects
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 issues i18n-discuss
- ► Text layout: index tracker type samples language matrix overview
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- guidelines request
- ► Tests: test suite i18n checker
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- ► i18n WG
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