# Between East and West

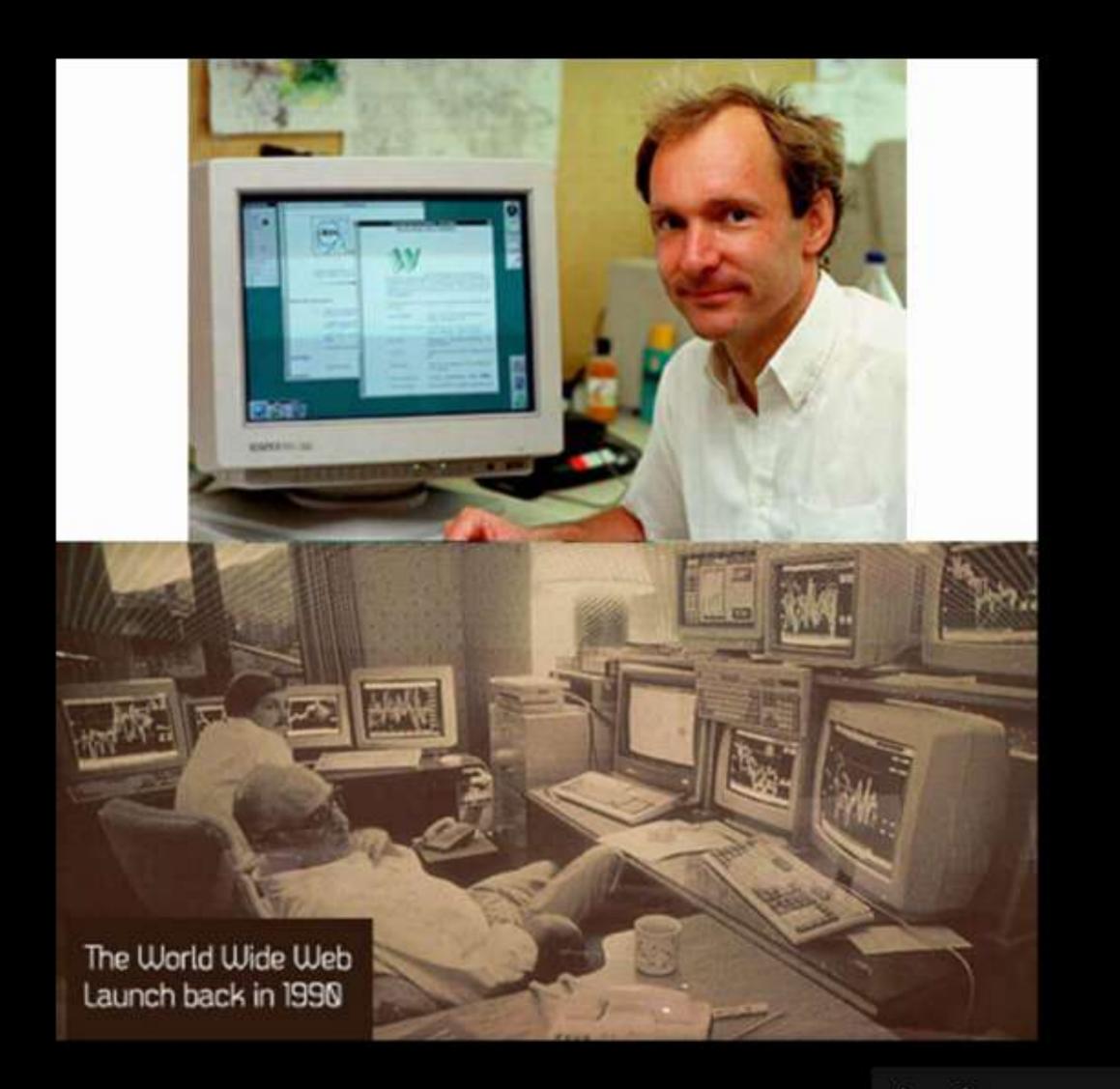
Web typography and how it can inspire modern layouts





# What does the web mean to you?









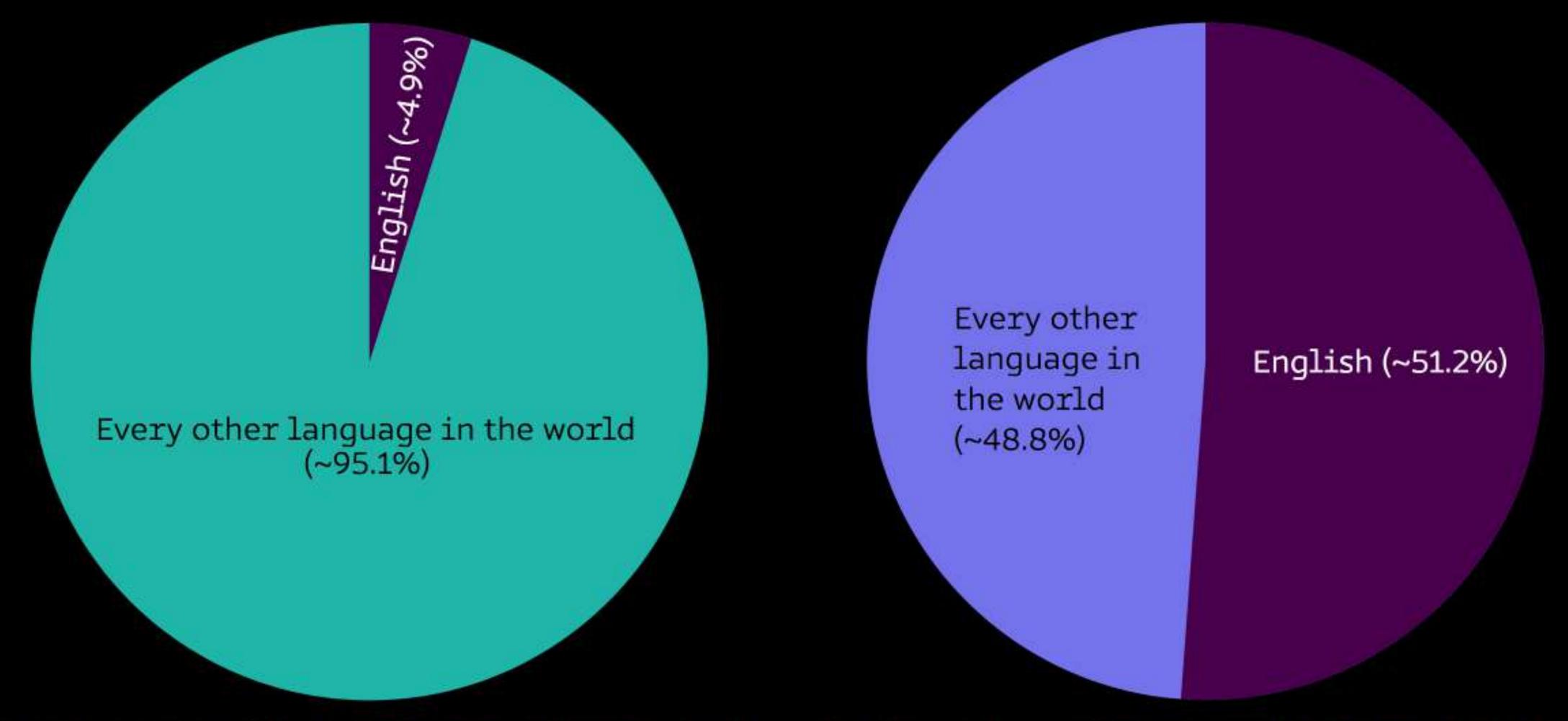




https://youtu.be/0b6HxVA\_q2U?t=190







Distribution of languages used around the Distribution of content languages on the world

web

Sources: Worldometers, Ethnologue, W3Techs

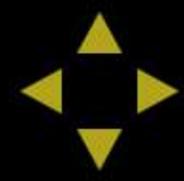




# Internationalisation (i18n)

"To ensure that the technology supports text in any writing system of the world."

-W3C Internationalisation



汉对辛辛苦苦的捕鱼生活很不满意, السلطان الذين يسمون لكسامانا إلى جانب مانق

从前,在马来西亚的西海岸边上,住着 一个叫左汉的渔夫,他每天早出晚归出 هانق تواه هو محارب وبحار ملايوي من ملاكا عاش 海捕鱼, 卖鱼的钱除了吃饭、穿衣等必 في عهد حكم السلطان منصور شاه في القرن 需的日常开销外,剩下的就不多了。左 الخامس عشر الميلادي، وكان واحداً من أقدر أميرالات 心只想着发财。可是,左汉心里明白: كاستوري، وهانق ليكيو، وهانق ليكير، وهانق جيبات. 靠捕鱼, 自己是永远不会成为富翁的。

ຄັນເມື່ອຄວາຍຕິວນັນຕາຍໄປແລ້ວຂຸນທັງສອງຈຶ່ງຝັ່ງ ມັນໄວ້ທີ່ຫົວນາ ຕໍ່ມາຈຶ່ງມີເຄືອຫມາກນ້ຳເຕົ້າສອງ ເຄືອ ເກີດມາຈາກຮູດັ່ງຄວາຍແລ້ວກໍ່ມີຫມາກນ້ຳເຕົ້າ ໃຫຍ່ສອງ ຫນ່ວຍ ເມື່ອຫມາກນ້ຳເຕົ້າໃຫຍ່ສອງ ຫນ່ວຍນັ້ນແກ່ແຫ້ງແລ້ວ ກໍ່ເລີຍໄດ້ຍິນສຽງຄືນ ຮ້ອງ ຊວ່າ ແຊວຢູ່ໃນຫມາກນ້ຳເຕົ້າຫນ່ວຍກຶກ.

Chẳng là xoja nay bọn mình choja viết chung thơ bao giờ. Cho nên cuối cùng phải thỏa thuận với nhau là cứ viết riêng thôi. Nho<sub>l</sub>ng lại xảy ra chuyện tranh cãi là để ai viết trojớc bây giờ. Đành rút thăm vậy. Kết quả là mình trúng đầu tiên.

អាចោរនោះថា «បងស្រលាញ់ស្មោះហើយនាងពុំ ដឹងចិត្តបងចង់អោយបងស្យូថ វីអោយបងធ្វើម្ដេច ? » ។ មេនោះថា «បើស្រលាញ់ចិត្តមួយនឹងគ្នា មានតែលិទ្ធអណ្តាតគ្នា » ទើបមេនោះ លៀនអណ្តាតហើយអោនទៅរកអាចោរនោះ។

ลิลิตพระลอเป็นเรื่องความรักที่มีอนุภาพ รุนแรงยิ่ง จนแม้ชีวิตก็ยอมพลีให้แก่กัน เนื้อ เรื่องกล่าวถึงเมืองสองเมือง คือ เมืองสรอง กับเมืองสรวงเป็นศัตรูกัน เจ้าเมืองสรวงได้ฆ่า เจ้าเมืองสรองตายในสนามรบ พระชายาเจ้า เมืองสรองมีความแค้นเจ้าเมืองสรวงอย่างยิ่ง

မိုးလင်းကတည်းကပင် ကောင်းကင်သည် အုံ့မှိုင်း ညို့မှုန်လျက်ရှိသည်။ တိမ်တိုက်ဟူ၍ ဘာမှကြည်လင်စွာမမြင်ရ။ ကိုကြည့်ရသည်မှာ မြူသန်းနေသော ပင်လယ်ပြင်ကြီးလို ဝိုးဝိုးဝါးဝါးနေသည်။ မိုးသည် ကင်းကင်းလွတ်လွတ်စဲသည် ဟူ၍မရှိ၊ တဖွဲဖွဲ ဖွဲနေလိုက်၊ တဖြိုင်ဖြိုင်ရွာချလိုက်နှင့်၊ နောက် စွေ၍ နေလေသည်။

Isa pang round at nagka-ayawan na pagka 11:00 na halos ng gabi. Namahagi si Manuel ng kaunting balato at ang natirang malinis niyang pinanalunan ay P700 na kanyang ibinukod habang matuling tumatakbo ang taksi na patungo sa kanyang inuuwian.



# Do developers even care about typography?



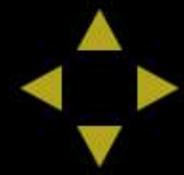
# "Web design is 95% typography"

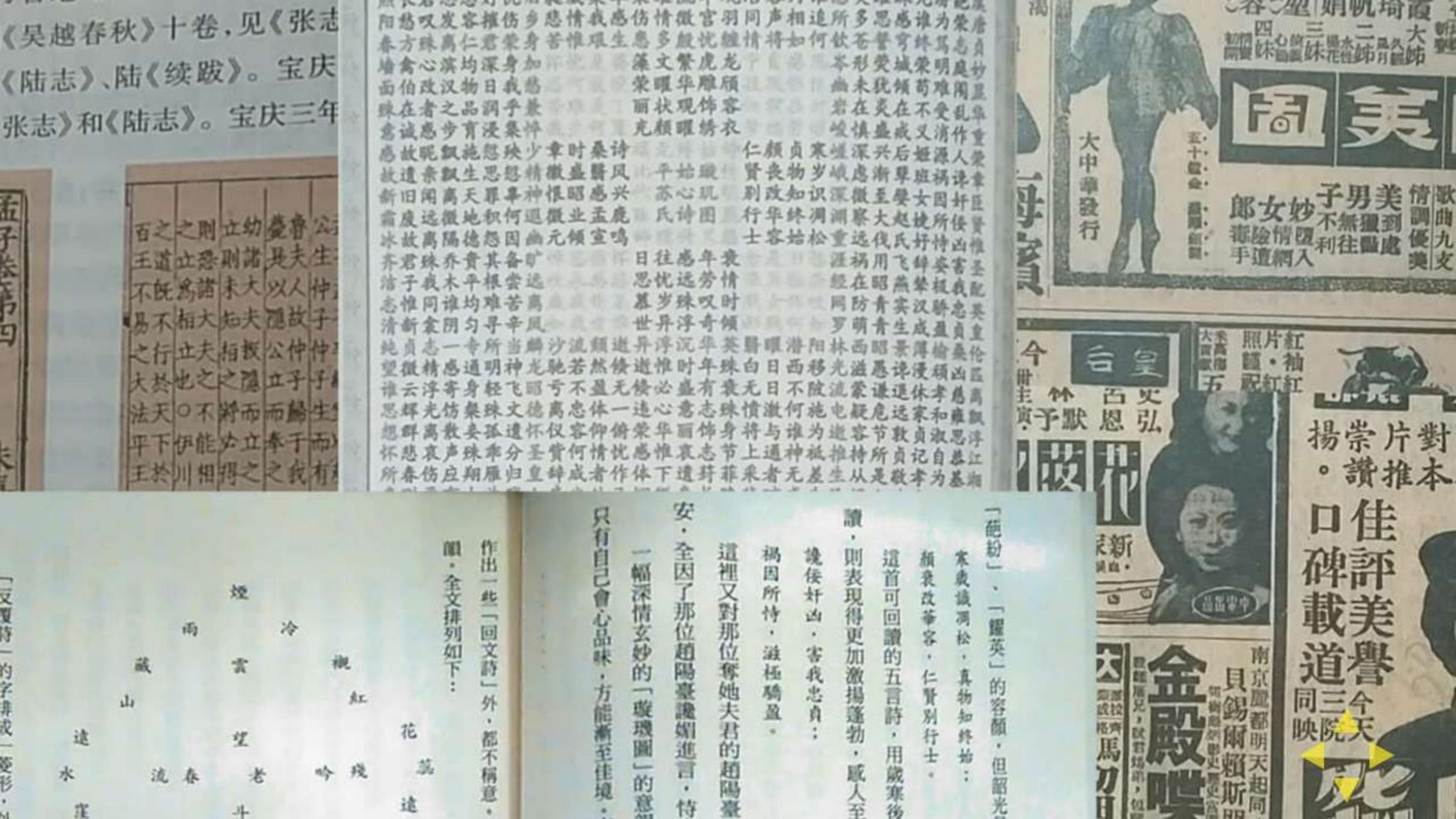
-Oliver Reichenstein



## "Typography is writing with prefabricated letters"

-Gerrit Noordzij



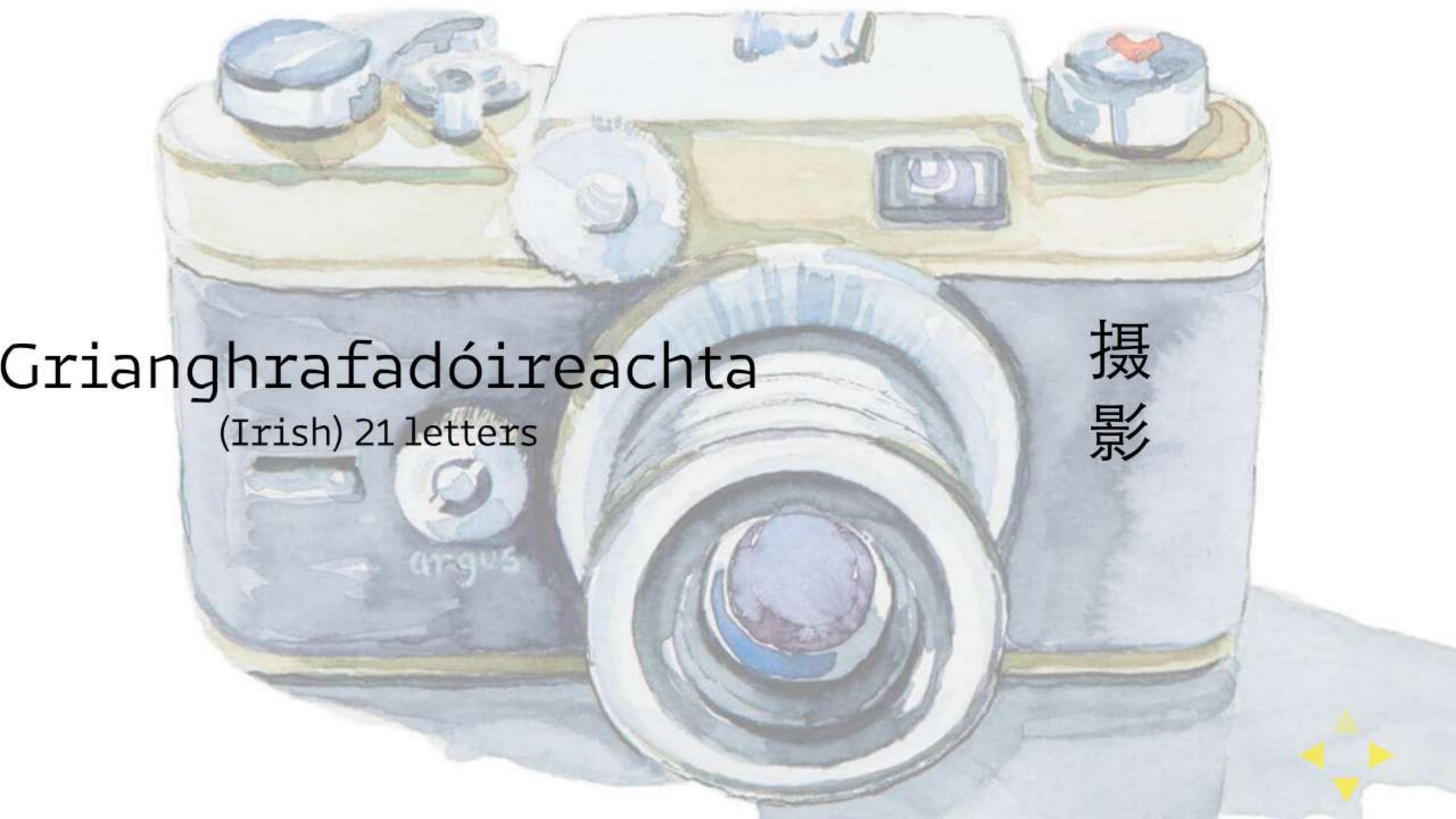




# Hippopotamus (English) 12 letters

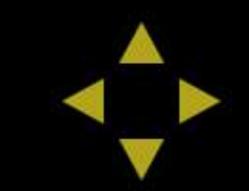






ORIGINAL	Egyptian	Phoenician	Greek	Roman Capital	Roman Uncial	Roman Half Uncial	Minisade	MODERN FORMS
Ox	25	×	A	A	a	a	a	AaAcAaAa
House		2	8	В	ъ	ъ	ъ	BbBBb 3Bb
Camel	2	>	7	G	9	4	8	Ggg GGgggg
Door	4	4	Δ	D	9	d	d	DaDDd面d
Window	m	3	3	E	e	e	e	Eee E Eee Ce
Water	M	7	N	M	m	m	m	MmMmm
Eye	0	0	0	0	0	0	0	0000000
Mouth	0	7	4	P	p	p	p	Pp Pp Pp pp
Cross	+	X	T	T	2	7	t	Tt TTtTt

Illustrating the probable development of some of the letters of the alphabet





# SANS SERIF



甲骨文		D	***	3
金文	0	D	**	\$
小篆	Θ	R	車	<b></b>
隶 书	日	A	車	馬
楷书	4	月	車	馬
草书	a	A	4	3
行 书	দ্ব	A	車	馬







Song Ti



Kai Ti

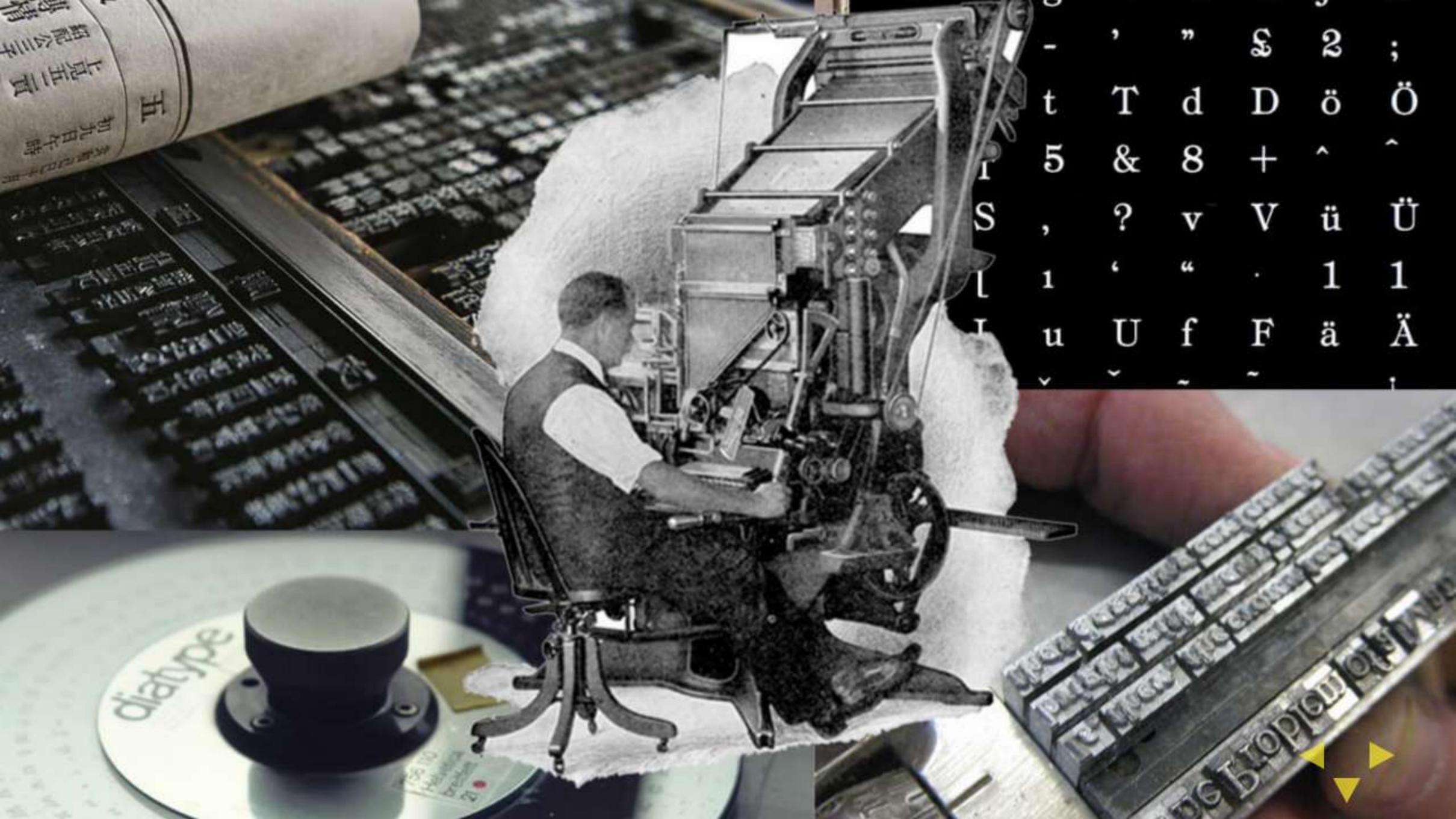
Hei Ti



子晌晍晎晏晏晏晐晐晑晒晓晔晕晖晗晗晘晙晙晙睌晲晜晜晝晞晟晠陠晢晣晤晥晥晦晦晧晨晨晨睌睌晪晫晬睟騆晭普景景晰晱睒晲晳啨晴暓晵瞐 **品岛岛書曹曹曻曻曼曾曾曾替替最最最替替替品會** 艒楜楝楞楞楟楟楠楡楡楢楢橍楤楤楥楥椬椬楧楨楩楩楪楪楪楫楫楬楬楬菐業楮楮楯楯楯楰楰楱楱楲楲楳楳楴楴極極極楶楶楶棔楷楷楸楸榲楹楺楺楻楼楼栥楾楿榀榁榁 图槢槢槣槣槤槤槤槥槥槥槦槦槦槧梊槨槨槩槩橜槪槪槪槫槬槬槬槭幓槮槯槯槰槰槱槱槲槲槳槳槳嫓槴槝槵槵蟍槷槷橔槸槸槹槹槺槺槻槼槼槽 橧橨橩橩橪橪橫橫橬橬橭樿橮橮橯橯槹槔櫉橲橳橳橴橵橶橷橸橹橺橻橼橽橽橾橾橿檀檀檁檁檁檂檂檃檃檃礉 檄檅檅檆檇槫檈檈檉檉檉 ¢櫬儬櫬櫭櫮棴櫯櫰櫰櫱櫱櫱櫲櫲櫳櫳櫳櫴櫴梳櫙橀櫷欅欅欅櫹櫹櫹櫺櫺櫮**櫻** H沒沓沔沔沕沖泰沘沘沘沙沙沚沛沛沜沜沝沞沟沟沠没没沢沣沤沥沦沧沨沩沪沪沬沬沭沭沭沮沯沰沱沱沲河沴沵沵沶沶沷 台派派洿洿油流流流关关浃净浅浅浆浇浈浉浊测浌浍济浏浐浑浒浓浔浕浖浖浗浘浙浚浚浚浛浛浜浝浝浞浟浠浡浢浣浣浤浤 井淡淡域况派派渌渌渌淦淦滋忽忽净净凌凌凌瀹淪淫泙泙庥庥庥准准消消清危念念深深深流流流浮厚忽忽淵淵淶混混混清淹淹淺添淼淼淼孤征征兼涓潸深深没没活活湃湃 <sup>苠</sup>澇澇澈澈澈澉澉澊澊澋澋澌澍澎澎澏澏澐澐澐澑澑澒澓澓澔澔澕澕澕澖澖澗澘澙澚澚澛澜澝澝澞澞澞澟澟澠澠澡 潚瀿瀿瀿欇瀡瀡顁瀢遚遛瀣 **炇炈炈炉炉炊炊炊炋炌炍炎炎炎炊炐炑炑炒炒炒炓炓炔炔炕炕炕炖炖炖炗折炘炙炙**炚炚炛炜炝炞炟炟炠炡炡炢炢炣熖熖炥炥炦炦炧炨炨炩炩炲

甲岭岭岭屹屹屹屹岯岯岯岰岰岰岱岱岲岲岳岳岴岴岵岵岵岶岶岶岷岷岷岸岸岹岹岺岺岻岻岼砰岽岾岾岿峀峀峁峂峃峄峅峅峆峆峆峇峇峈峈峈峉峉峊峊峋峋峋峌峌峌峍峍峎峎峏

崢崣崣崣鯑崤崤崥崥崥崦崦崦崧崧崧緁崨崨崩崩焠崪崫崫崬崭崮崮崯崰崰崱崱崲崲崲嶑崳崳崴崴崴崵崵崵崶崶嵧崷崷崸崸崸崹崹崹崺







### Web fonts

The CSS3 Fonts specification describes the basic controls CSS provides for selecting and using fonts within documents.

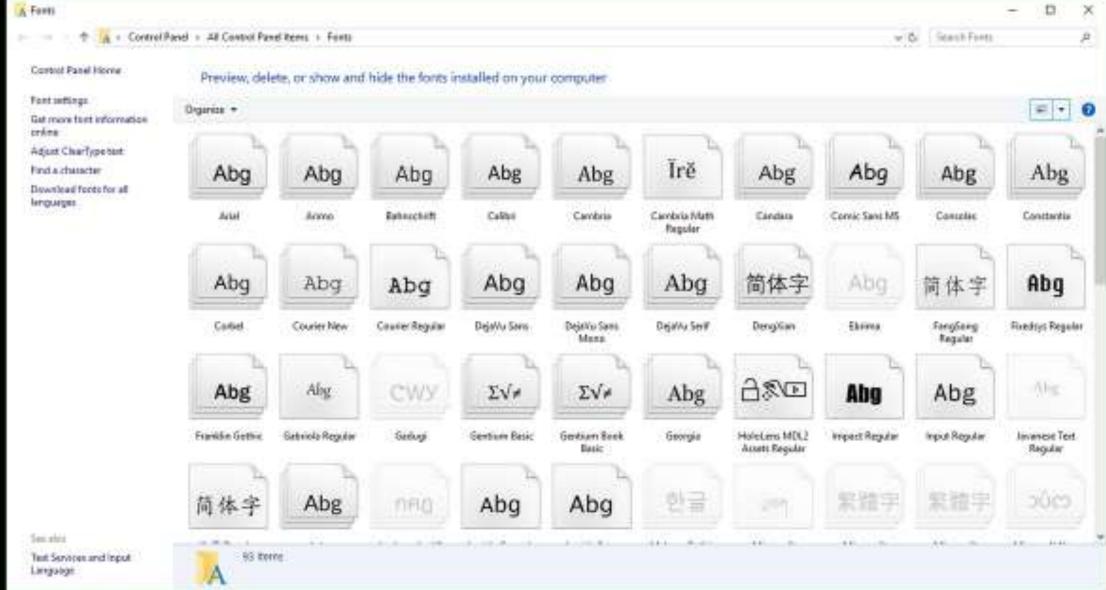
http://bit.ly/css-font-history/





# What is a font?

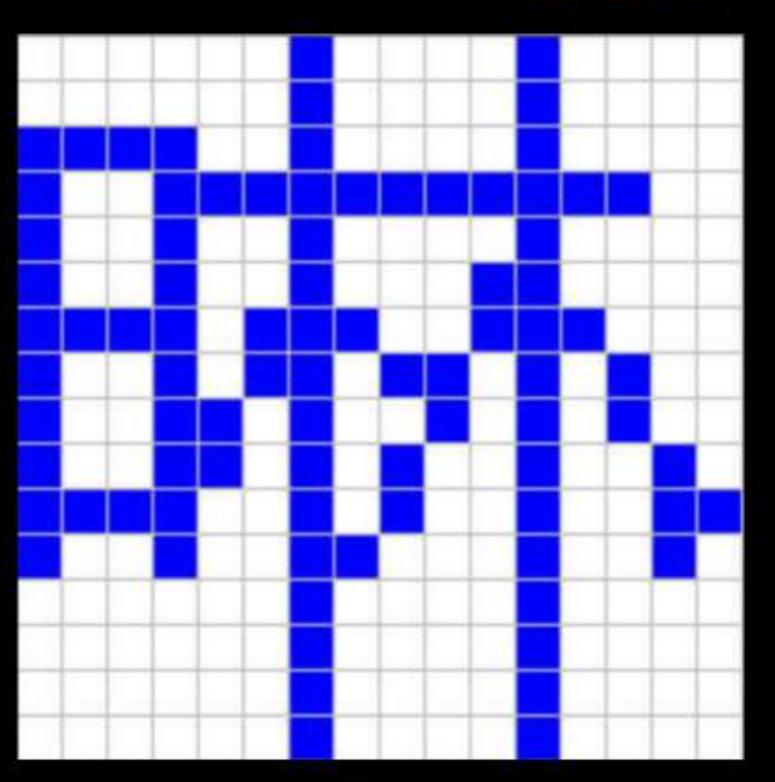


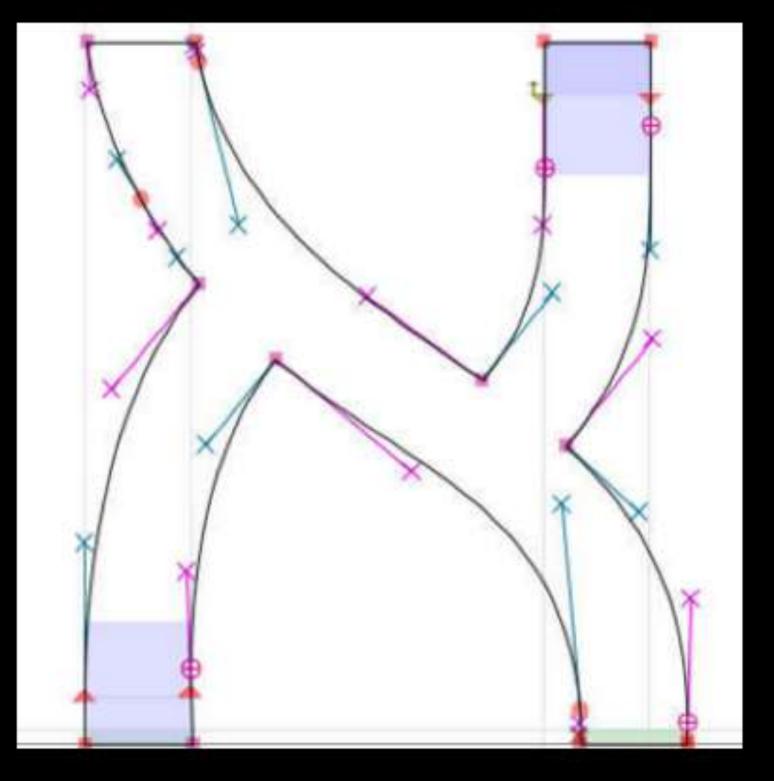




# And what are glyphs?







X

F

琳

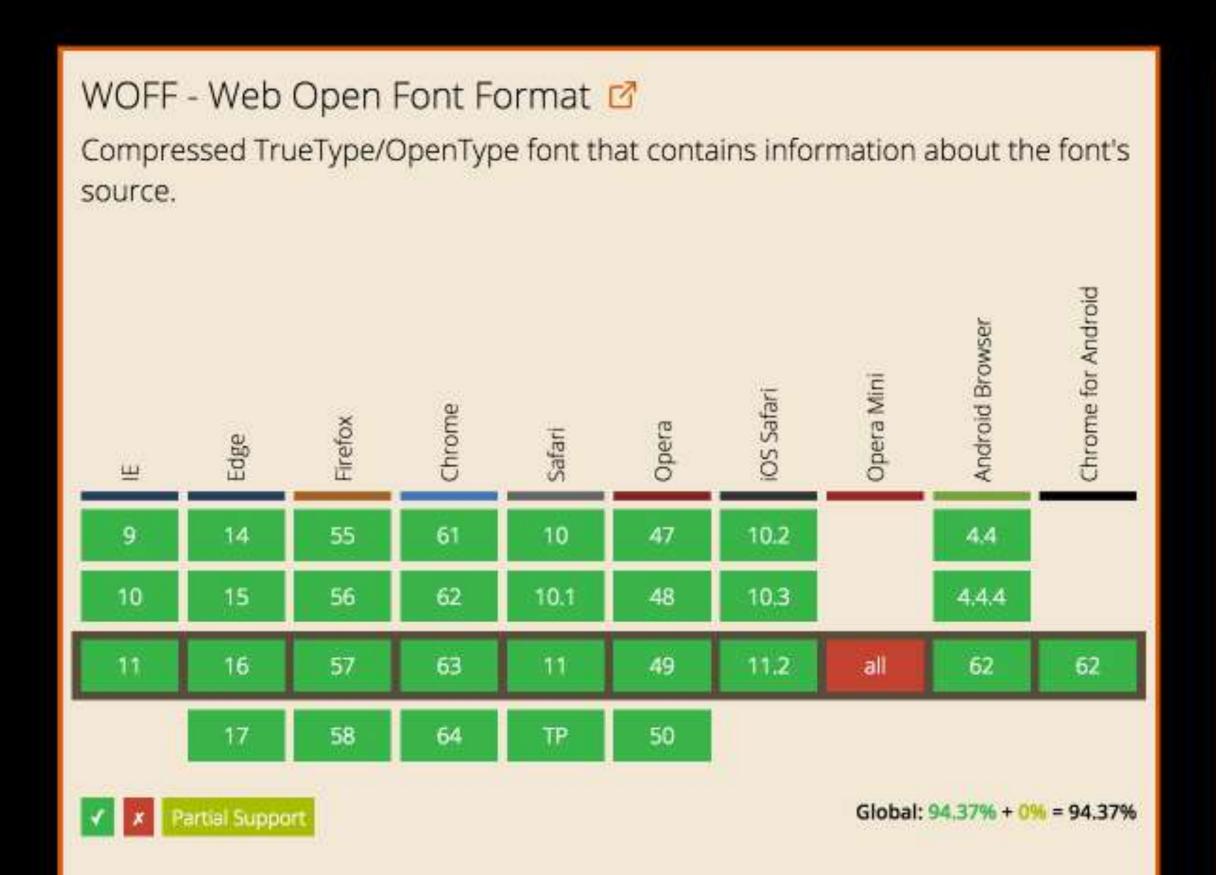
# Font formats for web use

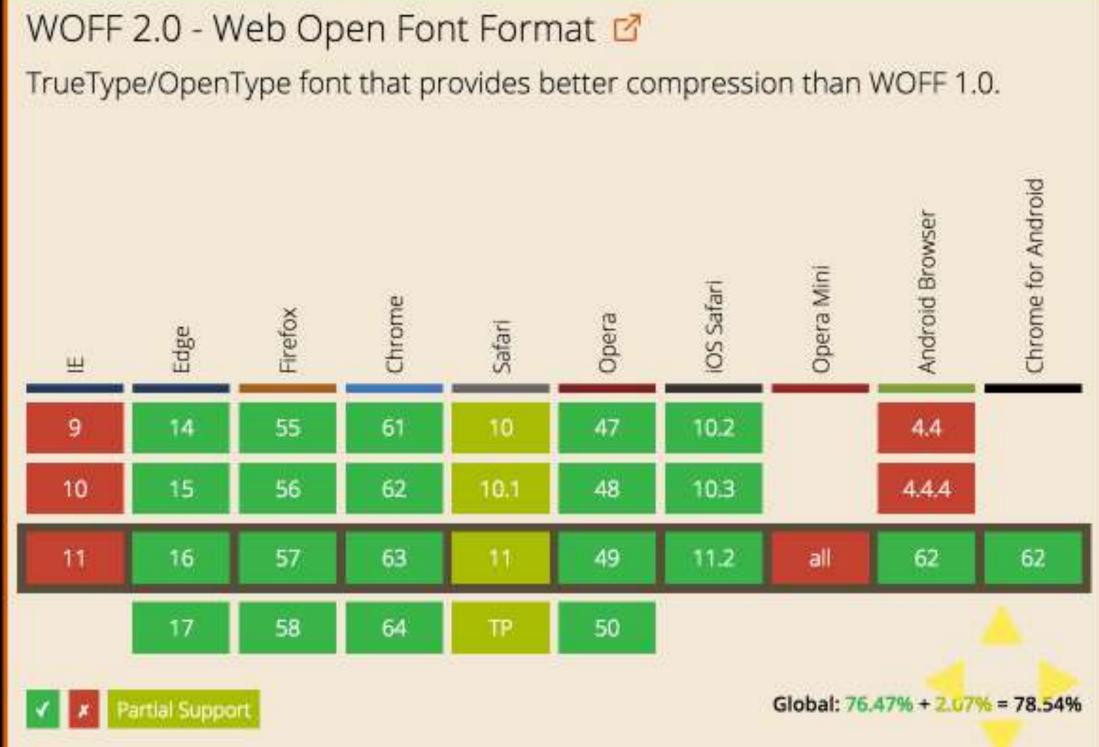
WOFF2 (Web Open Font Format 2)	Microsoft moz://a Opera
WOFF (Web Open Font Format)	Microsoft moz://a Opera
OTF (OpenType)	Microsoft A Adobe
TTF (TrueType)	Microsoft
EOT (Embedded Open Type)	Microsoft
SVG (Scalable Vector Graphics)	W3C** SVG



# @font-face

```
@font-face {
    font-family: 'Magnetic Pro';
    src: url('../fonts/magnetic-pro-light.woff2') format('woff2'),
        url('../fonts/magnetic-pro-light.woff') format('woff');
}
```





# Anatomy of an @font-face rule

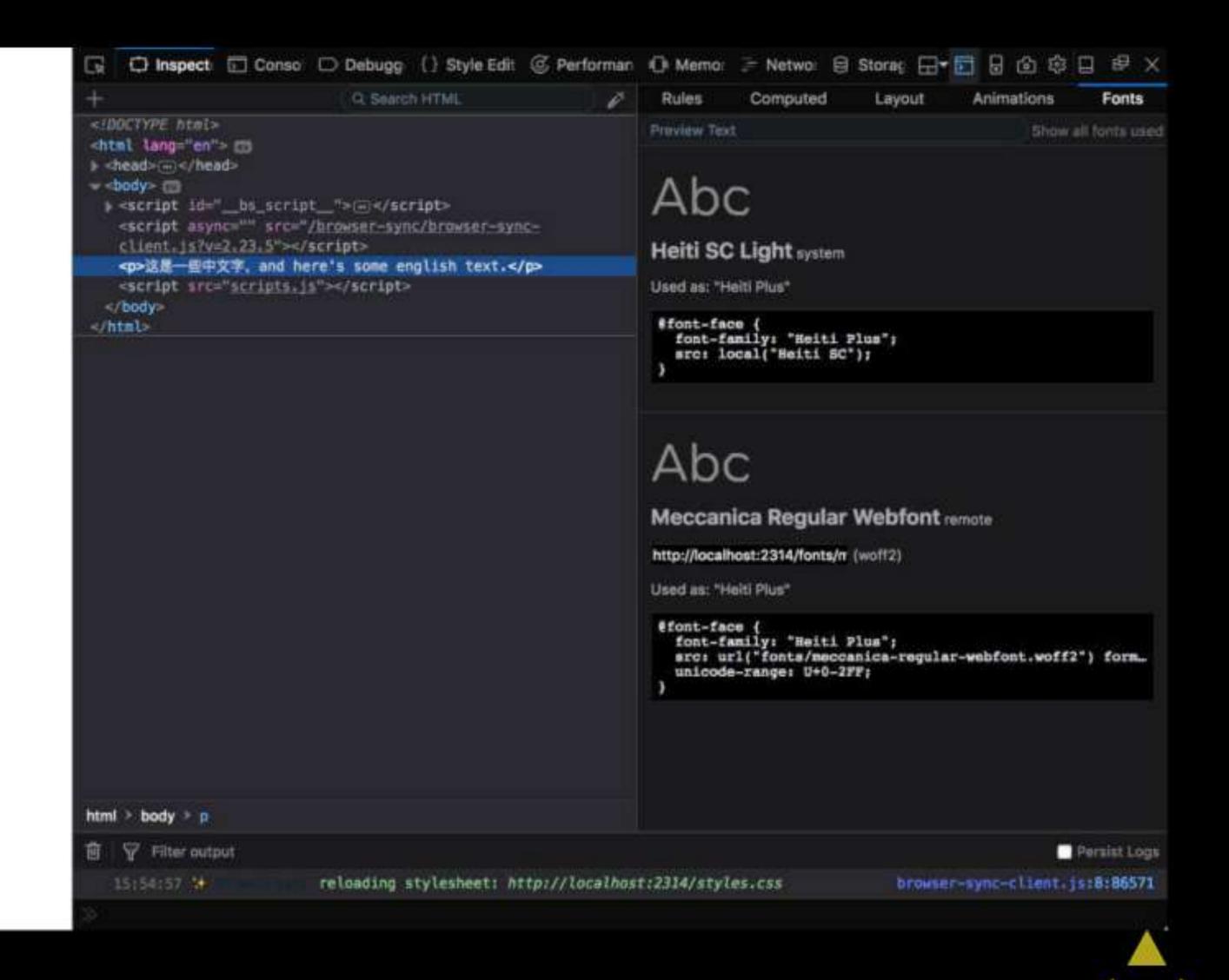
```
@font-face {
   font-family: <family-name>
   src: [ <url> [format(<string> #)]? | <font-face-name> ] #
   font-style: normal italic oblique
                                          300 400 500
   font-weight: normal bold 100 200
   font-stretch: normal ultra-condensed extra-condensed
   unicode-range: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



```
@font-face {
  font-family: 'Heiti Plus';
  src: local('Heiti SC');
  /* no range specified, defaults to entire range */
@font-face {
    font-family: 'Heiti Plus';
    src: url('fonts/meccanica-regular-webfont.woff2') format('woff2'),
         url('fonts/meccanica-regular-webfont.woff') format('woff');
    unicode-range: U+0-2FF; /* Unicode range for Latin characters */
```



这是一些中文字, and here's some english text.



# Descriptors describe individual font faces Properties requests for styling

dot CSS

## Basic 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-size-adjust

## b b

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0 0

Result

EDIT ON

This is a run of text in Merriweather.

This is a run of text in Georgia.

This is a run of text in Georgia with font-size-adjust set to 0.555, which is the (estimated) aspect ratio for Merriweather.

This is a run of text that's supposed to be set in Noticia Text but the font doesn't exist, so the fallback of Georgia has been invoked, with the font-size-adjust set to 0.530, which is the estimated aspect ratio of Noticia Text. Georgia has an estimated aspect ratio of 0.481.



## font-synthesis

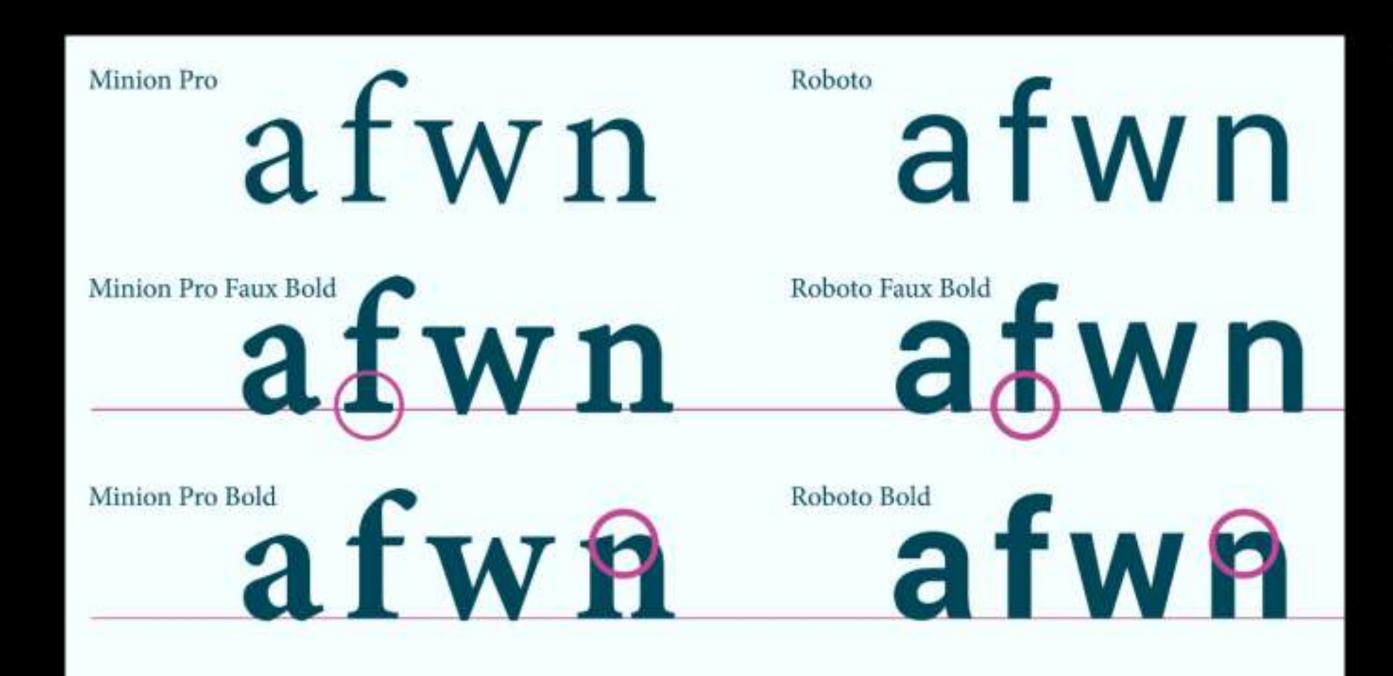
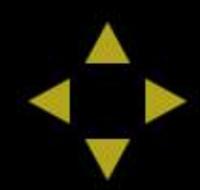




Image credit: Piotr Grochowski



## Font feature properties

## font-kerning





font-variant-position

 $C_{10}H_{16}N_5O_{13}P_3$  $C_{10}H_{16}N_5O_{13}P_3$  font-variant-positionligatures

## font-variantnumeric

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

寒田丁 寒田丁

大学

欧文フォント 欧文フォント



## Variable fonts

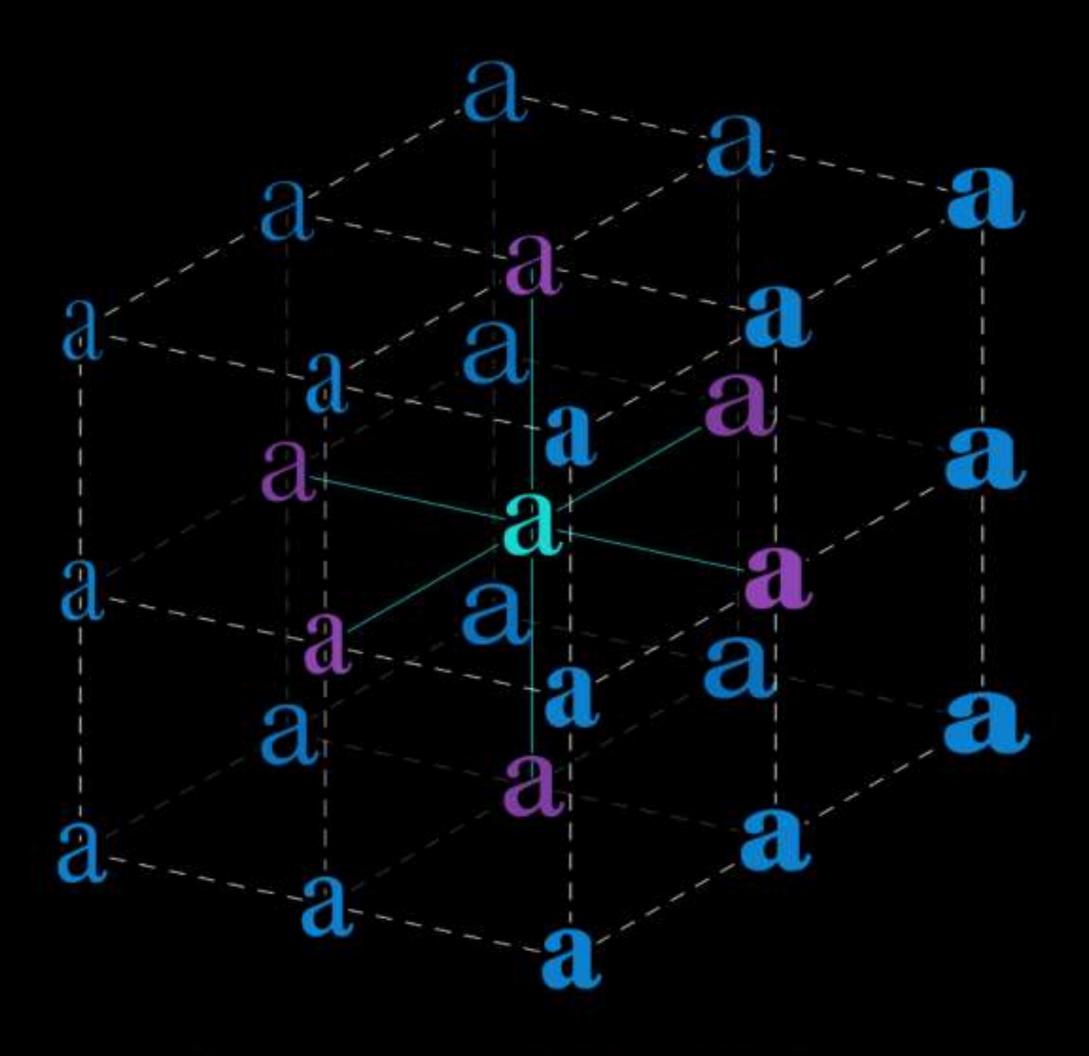
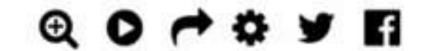


Image credit: John Hudson



blog

support



Introduction

MY SPECIMENS

Old Default

SPECIMENS

## 文鼎晶熙黑

晶煕ゴシック体

Amstelvar

Avenir Next

BitCount

Buffalo Gal

Compressa

Decovar

**DIN 2014** 

## 農愁小猶豫

小時候的煩惱很清澈,長大的煩惱卻很混濁。

如果以湯頭比喻煩惱這件事,

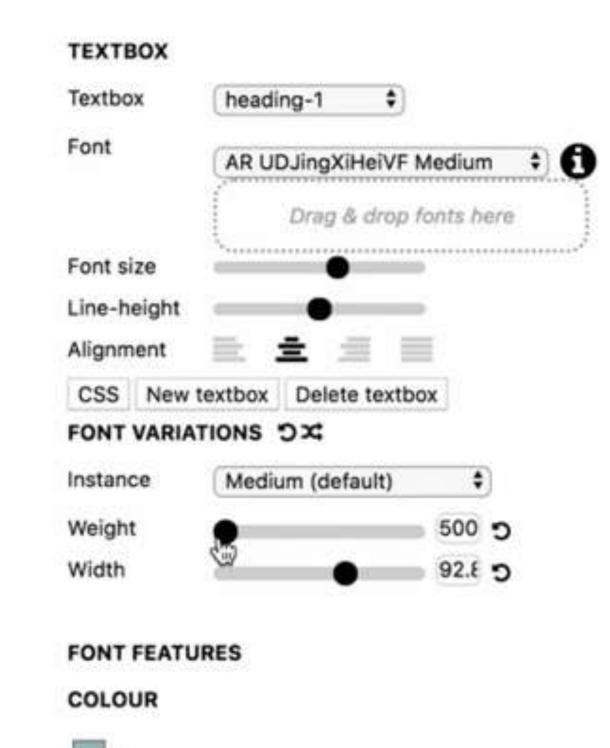
小時候的像是昆布鰹魚湯, 滾燙的血騷動著整鍋的情緒,

但一眼就看出端倪來、

長大了莫名就變成南瓜牛奶湯,

就算再煮下去,

也只會,唉,越來越「濃愁」。





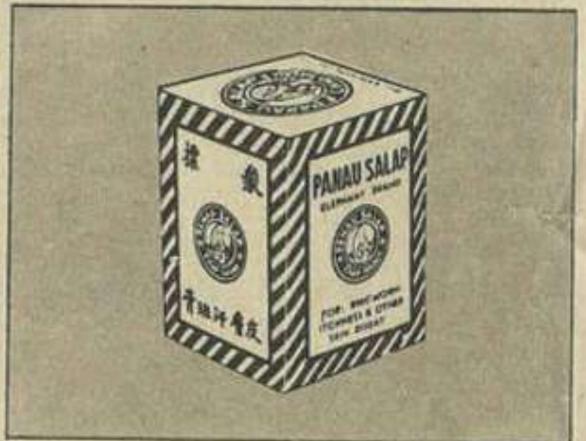


## Flyingman Safety Matches



PETALING JAYA, KUALA LUMPUR, MALAYA.

# PANAU SALAP CHAP GAJAH



Hanya satu sahja PANAU SALAP yang selalu dipakai orang yaitu

## PANAU SALAP CHAP GAJAH

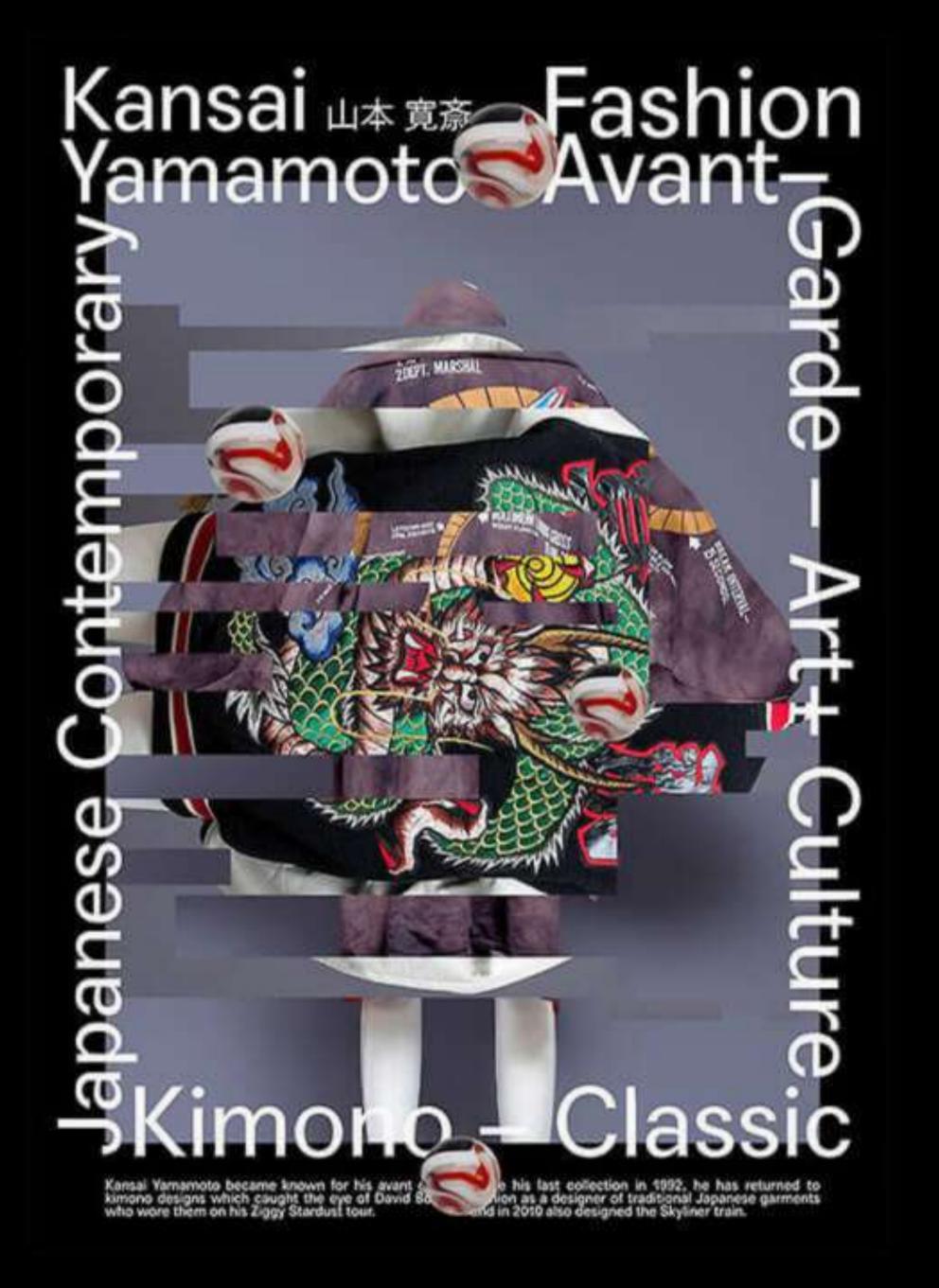
kerana penyakit

- \* PANAU
- \* KURAP
- # GATAL2
- ★ Dan Lain<sup>2</sup>

Ada terjual disemua kedai obat diseluroh Malaysia. Singapura dan Brunei.









## The magic of Writing Modes

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).





e rti i S C f a 1 u n e X

U

Or make it read from rightto-left.

<u>..</u>

literally turn on its side from You can make your browser left-to-right.

## writing-mode property

horizontal-tb	从1987到现在
vertical-rl	到现在
vertical-lr	<b>到现在</b>
sideways-rl*	从1987 到现在
sideways-lr*	<b>从1987</b> 到现在



## text-orientation property

从1987到现在 mixed

从1987到现在

从1987到现在 sideways





## text-combine-upright property



Codepen example for text-combine-upright



## max-height: 25em

## MNBL女子决赛.昔加末攀高峰夺冠

热姿态在第一座MNBL奖杯上留名。 带领昔加末篮球公会以60比 51击败吉隆坡高峰集团,以大联赛(MNBL)女子决赛中爆发,全场轰进18分 4篮板,联赛(重整坡 29日讯)国手陈慧晶昨晚在第一届大马全国篮球

## 陈慧晶夺生涯首个顺

选决赛卿(最有价值球员),生涯首次获得这一项荣誉。8中,命中率高达5%,尤其最后一节更是独得8分,顶住成为了球队的致胜功臣。身高5%分的陈慧晶此役14投成为了球队的致胜功臣。身高5%分的陈慧晶此役14投 陈慧晶在初赛与半决赛并不是特别抢眼,岂知来到决赛却

投进了几个三分球,我们才能够在紧要关头将比分扩 除了我们的ハロ(陈慧晶),汪秀婷、邱嫊媚也在关键时刻 对于陈慧晶的表现,昔加末主帅戴正钩也赞不绝口, 「陈慧晶在这一场比赛的发挥是大家有目共睹的。

auto

## 多次靠三分球扩大比分

margin-top: auto

告命中三分球,让高峰队多次努力无功而返。 以, 像第三节高峰以 45比 53咬紧比分时,邱嫊媚又适时球; 然后在 22比 33时,汪秀婷也射出一记三分弹;来到比次,像第三节高峰队追至 20比 26时,邱嫊媚就轰进三分进。未第三分球抛离对手的纠缠,本场比赛就出现了好多

margin-bottom:

场最高的10个篮板。 婷和钟佩金各得 7分,彭慧萍虽然只得 5分,但却抢下全除了陈慧晶,邱嫖媚与彭燕燕在此役也各射下 8分,汪秀

板、李秀雯8分6籃板、伊查蒂 7分6籃板等。板,但却无法带领球队取胜。此外叶佛仪取得10分5篮高峰队的陈巧婷此役的发挥也极为出色,射下23分8篮

## 雷升龙:发挥输对手%

ナし江皇を手月だら

# de Kooning

in Virginia, de Kooning slipped off, for Argentina. While the ship was docked young artist stowed away on a ship bound commercial arts. In 1926, the adventurous impoverished household and attended the artist, who was perceived by many of his the New York avant-garde, Willem de If Jackson Pollock was the public face of New Jersey—and so began the rest of his skirted immigration, and made his way to Kooning could be described as an artist's Rotterdam Academy, training in fine and Rotterdam, where he grew up in an peers as its leader. He was born in

## CSS Logical Properties





## MNBL女子决赛,昔加末攀高峰夺冠

带领昔加末篮球公会以60比51击败吉隆坡高峰集团,以大 联赛 (MNBL) 女子决赛中爆发,全场轰进18分4篮板, 热姿态在第一座MNBL奖杯上留名。 (吉隆坡29日讯) 国手陈慧晶昨晚在第一届大马全国篮球

## 陈慧晶夺生涯首个W

决赛》 (最有价值球员),生涯首次获得这一项荣誉。 高峰队的反扑。凭藉决赛的精彩演出,陈慧晶也因此当选 成为了球队的致胜功臣。身高仍公分的陈慧晶此役14 投8 陈慧晶在初赛与半决赛并不是特别抢眼,岂知来到决赛却 命中率高达5%,尤其最后一节更是独得8分,顶住了

说:「陈慧晶在这一场比赛的发挥是大家有目共睹的。而 投进了几个三分球,我们才能够在紧要关头将比分扩 除了我们的严(陈慧晶),汪秀婷、邱嫊媚也在关键时刻 对于陈慧晶的表现,昔加末主帅戴正钧也赞不绝口,

## 多次靠三分球扩大比分

出手命中三分球,让高峰队多次努力无功而返。 赛最后 5 分钟高峰以 45 比 53 咬紧比分时,邱嫊媚又适时 球;然后在22比31时,汪秀婷也射出一记三分弹;来到比 昔加末靠三分球抛离对手的纠缠,本场比赛就出现了好多 次,像第三节高峰队追至20比26时,邱嫊媚就轰进三分

除了陈慧晶,邱嫊媚与彭燕燕在此役也各射下8分,汪秀 场最高的10个篮板。 婷和钟佩金各得7分,彭慧萍虽然只得5分,但却抢下全

板、李秀雯8分6篮板、伊查蒂7分6篮板等。 板,但却无法带领球队取胜。此外叶佛仪取得10分5篮 高峰队的陈巧婷此役的发挥也极为出色,射下23分8篮

## 雷升龙:发挥输对手%

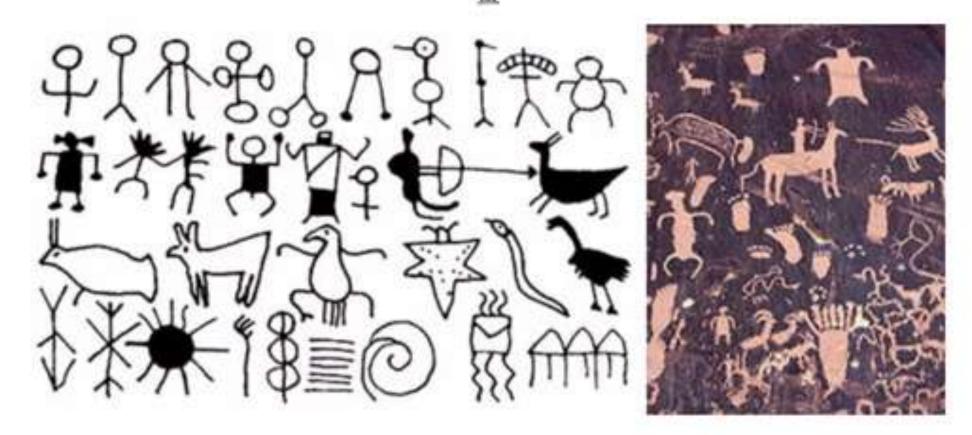
高峰队主帅雷升龙表示,高峰队其实在本场决赛发挥得不 只是昔加末的表现更为出色、防守也比他们更为严

## 文字的故事

記錄:演變 05/20/2014

人類和其他生物物種總是在以自己獨特的方式和語言給大自然和自己的生命歷程留下一些印 跡。當遠古時期的獵人根據熊掌印開始追踪的時候,那便是最早的「視覺交流與傳播」 (Visual Communication)的開始。

最早的視覺傳達方式基本都是利用圖形進行的。這是北美印地安在史前的岩洞壁書



法國發現的拉斯考克岩洞中,古代人類的原始繪畫,大約西元前一萬——萬五千 年

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The W3C Internationalization (I18n) Activity works with W3C working groups and faises 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

- For review: Infine markup and bidirectional text in HTML December 4, 2017.
- Updated article: Using character escapes in markup and CSS August 30, 2017
- New article: Strings and bidi August 26, 2017.
- For review: Strings and bid August 7, 2017
- For neview: Floating times June 15, 2017
- New article: Approaches to full justification April 2, 2017.
- Tisk alides: JEPA seminar
- Unicode Conference speaker submission deadline 24 March March 20, 2017
- For review: Approaches to full justification Meets 13, 2017.

## All news

December 13, 2017

## Updated article: Inline markup and bidirectional text in HTML

An update for the article inline markup and bidirectional text in HTML has just been published.

This article tells you how to write HTML where text with different writing directions is mixed within a paragraph or other HTML block (is. inline or phrasal content). The article has been updated to bring it in line with recent browser developments and to simplify the guidelines. Examples are linked to live versions, and indications are given for which features are supported by which browsers.

Liparé a comment.

Tags: article-inline-bidi-markup

## Get help

Content authors

Spec developers

Working group

With this site

Internationalization Sponsorship Program

## Participate!

Internationalization Sponsorship Prognam

Join a Working Group

Review a W3C specification

Translate a specification or page

Subscribe to a mailing list

## Quick links

- Current projects
- Articles etc.
- Tech reports
- Text layout index
- Text layout tracker
- Type samples
- Review radar
- Review tracker, github
- Review guidelines
- Document issues
- Layout work
- ▶ i18n wiki
- Tests
- I18n checker
- MultilingualWeb

## Group pages

- Activity Statement
- ► i18n WG
- ▶ it Britisherest Group
- ► I18n Tag Set (ITS) IG
- Arabic Layout Task Force
- Chinesa Layout Task Force
- Ethiopic Layout Task Force Hebrew Layout Tlask Force
- Indic Layout Task Force
- Community groups





## Penang Hokkien website



About page



Why build this site?

Not yet k-ouk

Han-na, han-naaa

BCHK stories 庇能福建の故事

Bookshelf-style design with vertical text



## Cognition

the Wismut Labs engineering blog

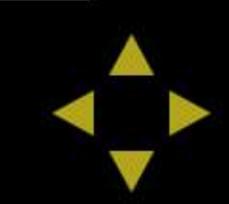
posted on Apr 24, 2017

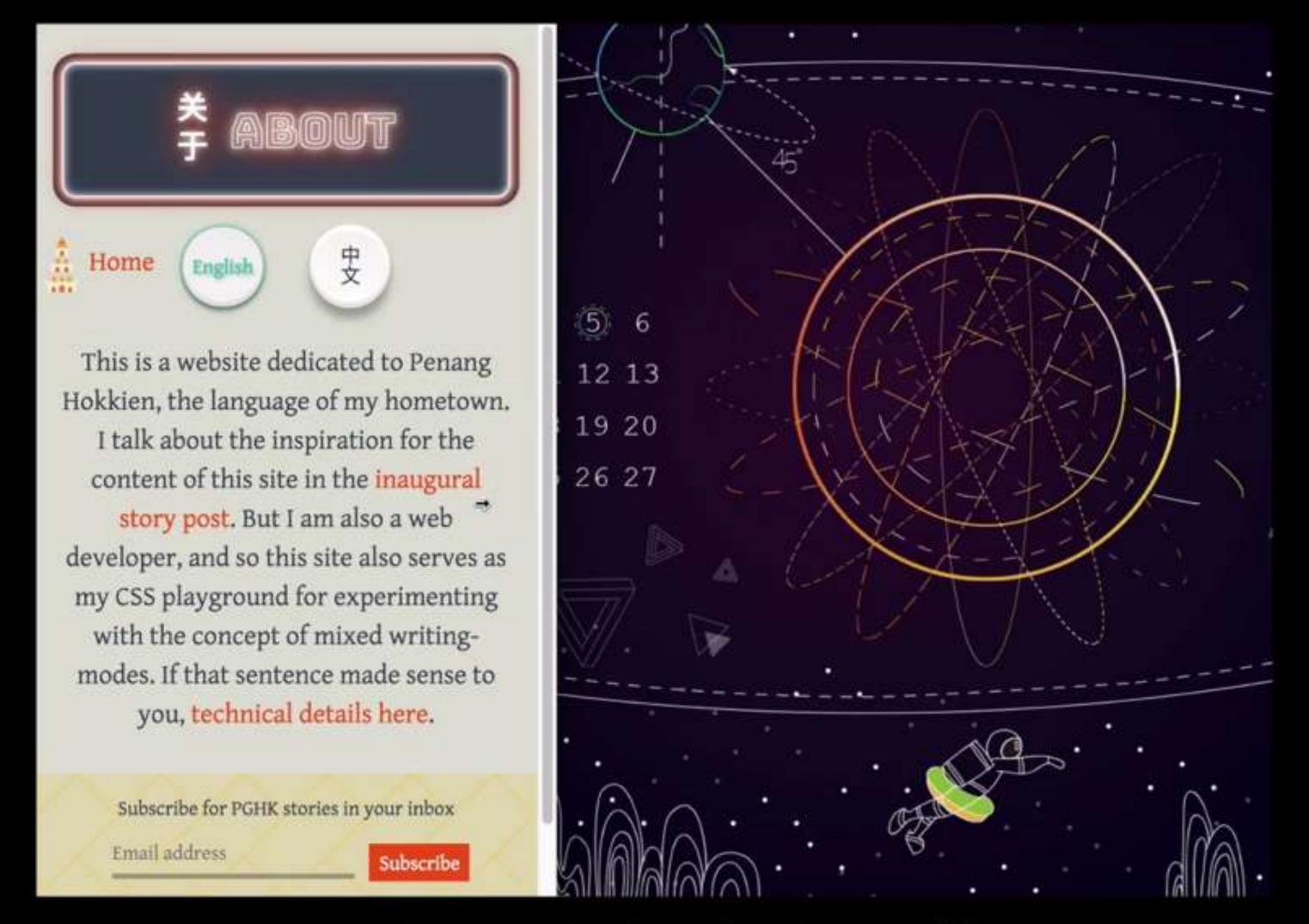
## Building for cross-browser compatibility

This is the third post of a multi-part series about developing the brand identity for Wismut Labs.

The <u>previous post</u> covered a number of design decisions made with regards to the overall style of the Wismut Labs brand. This post will focus on the actual building of the Wismut Labs website.

Front-end





Responsive vertical to horizontal layout

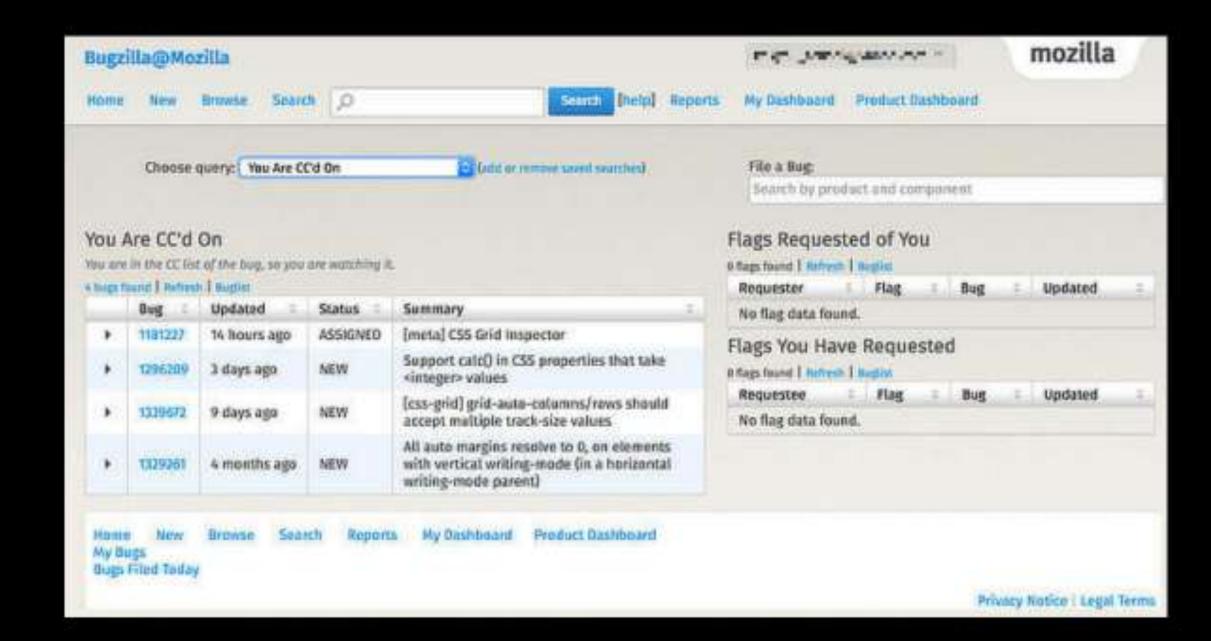


- Waiting... **EPYPHITE** ) - Waiting... - Waiting... - Waiting... **� OUR PHILOSOPHY** CHENHUIJING-PC Without roots. Everywhere.





19 bugs found.							
ID	Product	Comp	Assignee A	Status 🛦	Resolution	Summary	Changed
1263934	Core	Layout	martijn.martijn@gmail.com	NEW	***	Marquee doesn't work well in vertical writing-mode css	2016-04-12
1189131	Core	Layout	nobody@mozilla.org	NEW	***	flex align-items center displaces text when writing-mode is vertical-rl	2017-07-20
1223180	Core	Layout	nobody@mozilla.org	NEW	***	Flex + vertical writing-mode: flex items / text disappear	2017-08-16
1231656	Core	Layout	nobody@mozilla.org	NEW	242	text-align and vertical-align don't work as expected on table cells that are orthogonal to row (writing-mode)	2017-04-18
1234701	Core	Layout	nobody@mozilla.org	NEW	***	Various crashes with CSS "writing-mode: vertical-lr" and float	Fri 08:03
1242660	Core	Layout	nobody@mozilla.org	NEW		[css-writing-modes] Fragmentation issues with vertical writing-mode	2017-08-07
1260054	Core	Layout	nobody@mozilla.org	NEW		Text and the scroll bar are not displayed with writing-mode: vertical-rl	2016-10-23
1269152	Core	Layout	nobody@mozilla.org	NEW		orthogonal multi-column with a vertical writing-mode computes height to fill page rather than wrap contents	2016-05-01
1276735	Core	Layout	nobody@mozilla.org	NEW		[css-flexbox][css-writing-modes] display:inline-flex with vertical item is growing on each reflow	2017-08-04
1318825	Core	Layout	nobody@mozilla.org	NEW	***	[css-flexbox] Vertical-writing-mode flex item in horizontal flex container has wrong width	2016-11-25
1282940	Core	Layout	nobody@mozilla.org	NEW		Flex item with indefinite flex-basis produces weird overflow inside column container with vertical writing-mode	Tue 14:42
1329261	Core	Layout	nobody@mozilla.org	NEW	***	All auto margins resolve to 0, on elements with vertical writing-mode (in a horizontal writing-mode parent)	2017-07-17
1349163	Core	Layout	nobody@mozilla.org	NEW	***	[css-flexbox] In Firefox flex item with writing-mode:vertical-rl stretches, not in Chrome	2017-07-17
1322623	Core	Layout	nobody@mozilla.org	NEW		Intermittent writing-mode/tables/vertical-table-specified-width-2-ref.html   assertion count 2 is more than expected 1 assertions from ASSERTION: FinishReflowChild with unconstrained container width!: 'aContainerSize.width != NS_UNCONSTRAINEDSIZE'	2017-09-24
1403811	Core	Layout	nobody@mozilla.org	NEW		Intermittent [u'writing-mode/tables/vertical-table-specified-width-2,html', u'==', u'writing-mode/tables /vertical-table-specified-width-2-ref.html']   assertion count 2 is more than expected 1 assertions	2017-10-15
1404937	Core	Layout	nobody@mozilla.org	NEW		Intermittent writing-mode/1117210-1-vertical-baseline-snap.html == writing-mode/1117210-1-vertical-baseline-snap-ref.html   image comparison, max difference: 255, number of differing pixels: 32194	2017-10-15
1404957	Core	Layout	nobody@mozilla.org	NEW		Intermittent [u'writing-mode/tables/vertical-table-specified-width-2.html', u'==', u'writing-mode/tables /vertical-table-specified-width-2.html']   assertion count 3 is more than expected 2 assertions, FinishReflowChild with unconstrained container width!	2017-10-08
1405437	Core	Layout	nobody@mozilla.org	NEW		Intermittent writing-mode/1115916-1-vertical-metrics.html == 1115916-1-vertical-metrics-ref.html   image comparison, max difference: 255, number of differing pixels: 1092	2017-10-15
1408037	Core	Layout	nobody@mozilla.org	NEW		Intermittent (u'writing-mode/tables/vertical-table-specified-width-2.html', u'==', u'writing-mode/tables /vertical-table-specified-width-2-ref.html')   assertion count 2 is more than expected 1 assertions	2017-10-15
19 bugs four	nd.		- I				



Bugzilla@Mozilla



## Chromium Bugs



## A long list of references

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- Introducing OpenType Variable Fonts
- fvar Font Variations Table
- Variable Fonts on the Web
- How to Use Variable Fonts on the Web
- Getting started with variable fonts
- 全球首款! 文鼎晶熙黑體支援可變式字體格式
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FONTPLUSを利用して

いただけ 副賞の

しています

ーに表示されるコピー

フォントで実装して頂ける

## 着物姫ク

で観響きが使われていないた をす。画面幅に応じて軽組・機 のり替わる部分も面白いです。 世界観が分断されてしまって 世界観が分断されてしまって 世界観が分断されてしまって





http://tategaki.github.io/awards/

## Study of Writing Modes













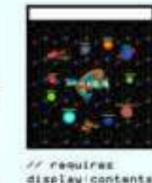






Return of the 1990s

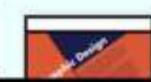




Other Experiments









http://labs.jensimmons.com/

## Thank you!



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