

VERTICAL WRITING ON THE WEB

Inadvertent layout inspiration from a search for cultural identity

Surname

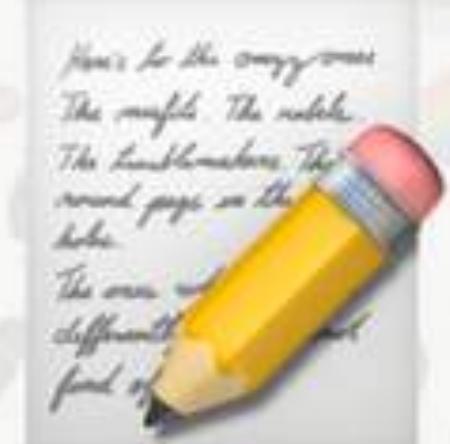
陈
Chen

First name

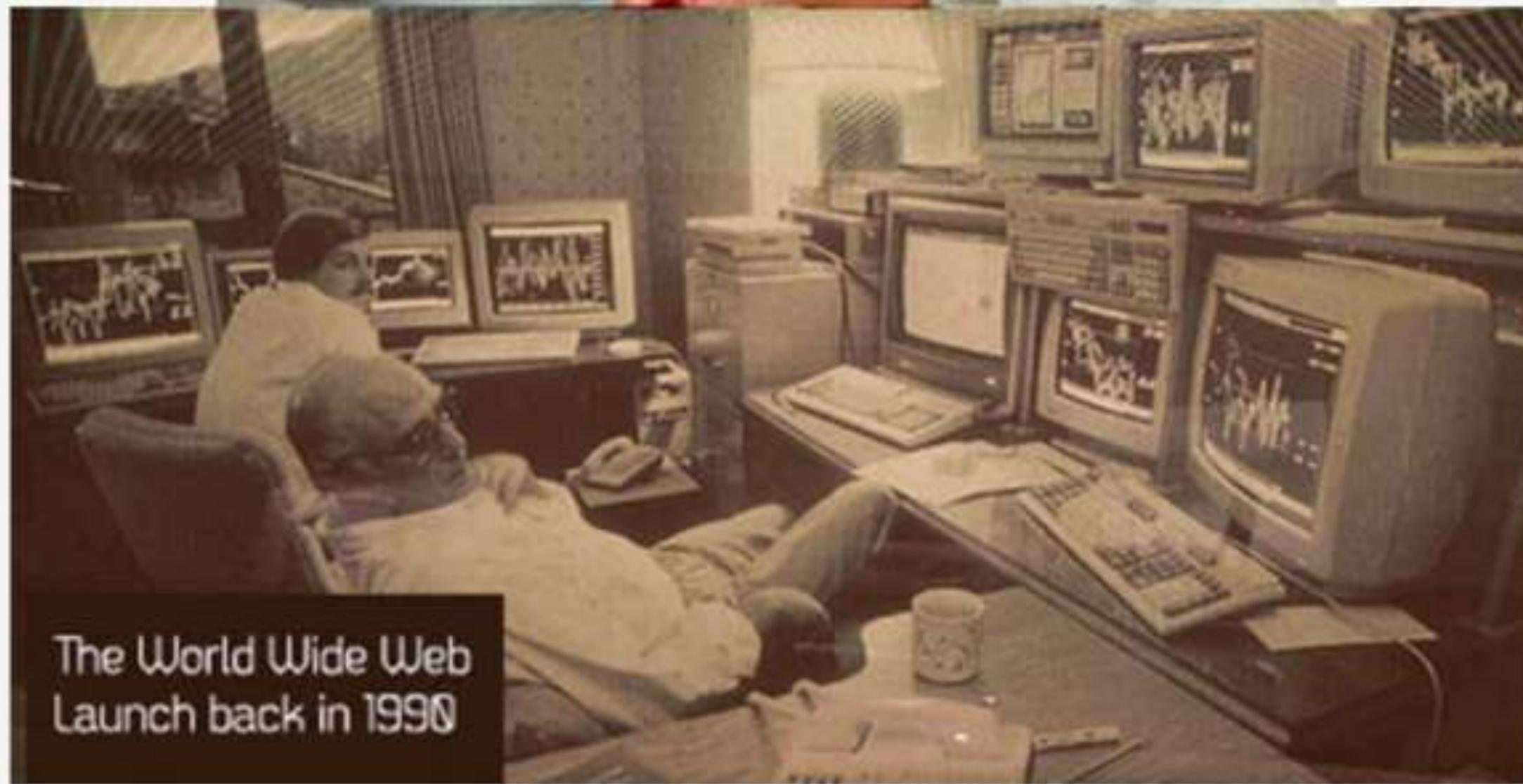
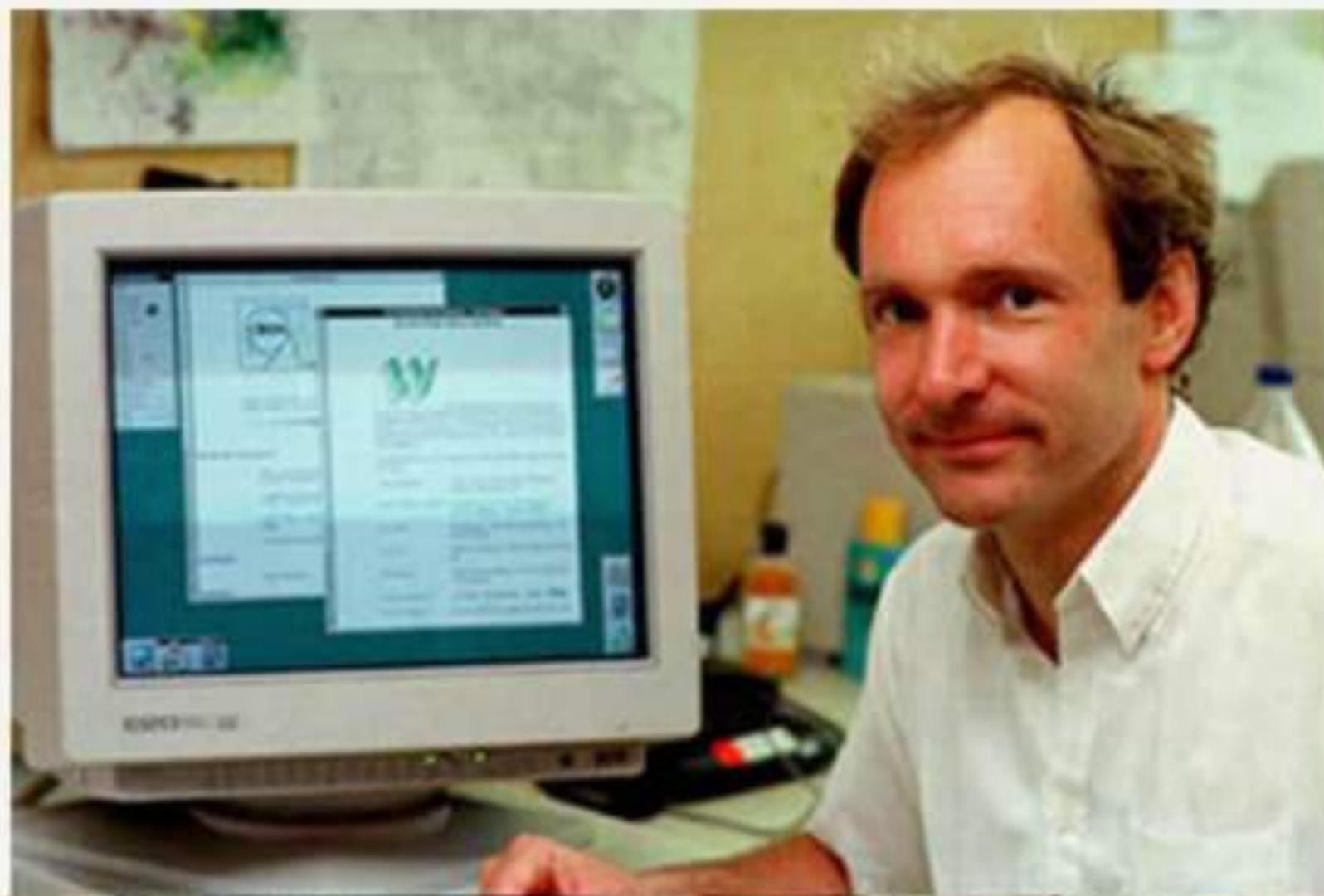
慧 晶
Hui Jing



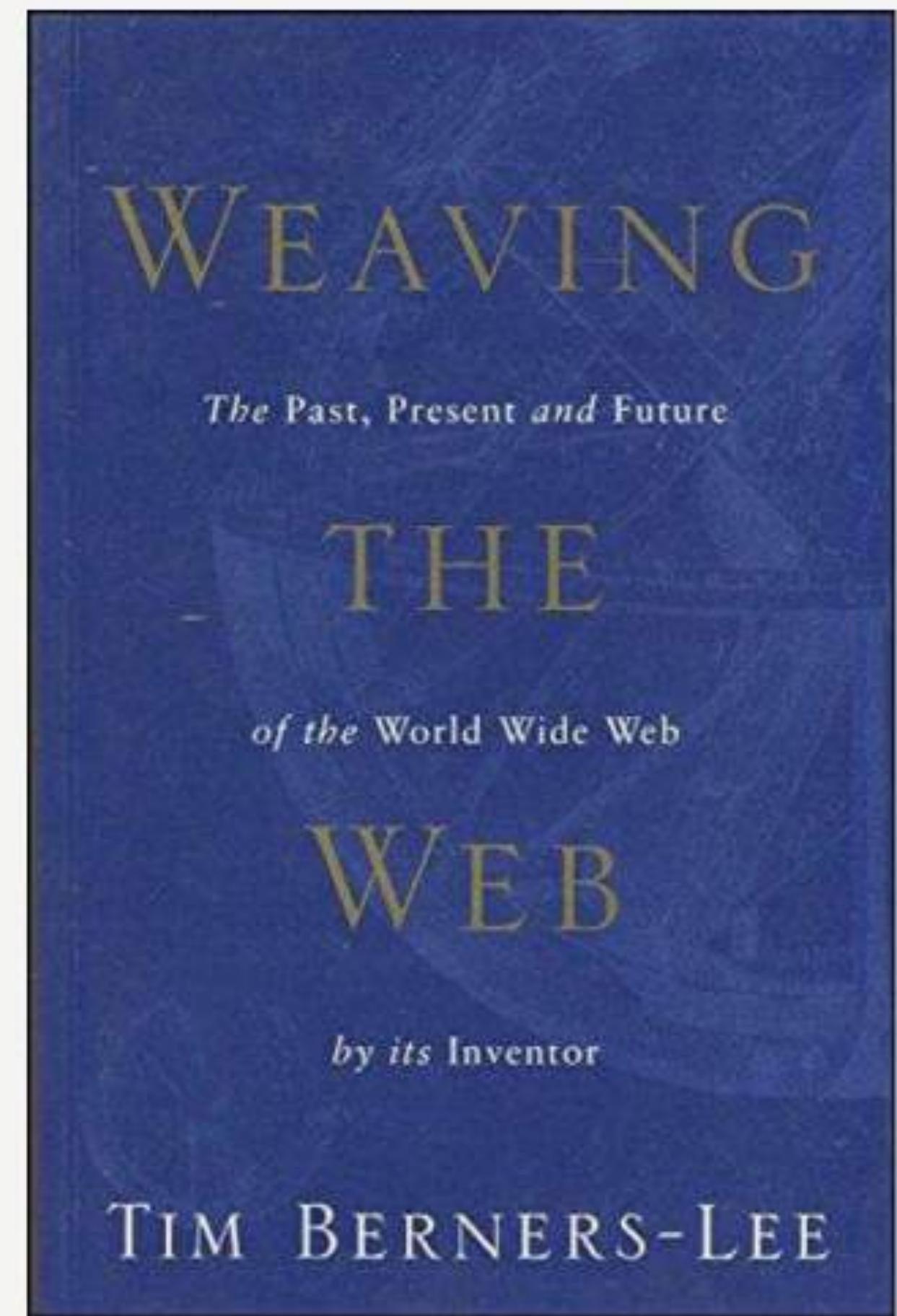
@hj_chen



What does the web mean to you?



The World Wide Web
Launch back in 1990



“For the Web, the external link is what would allow it
to actually become ‘worldwide’.”

—Sir Tim Berners-Lee





Source: [ancientelectronics](#)



Source: [ancientelectronics](#)



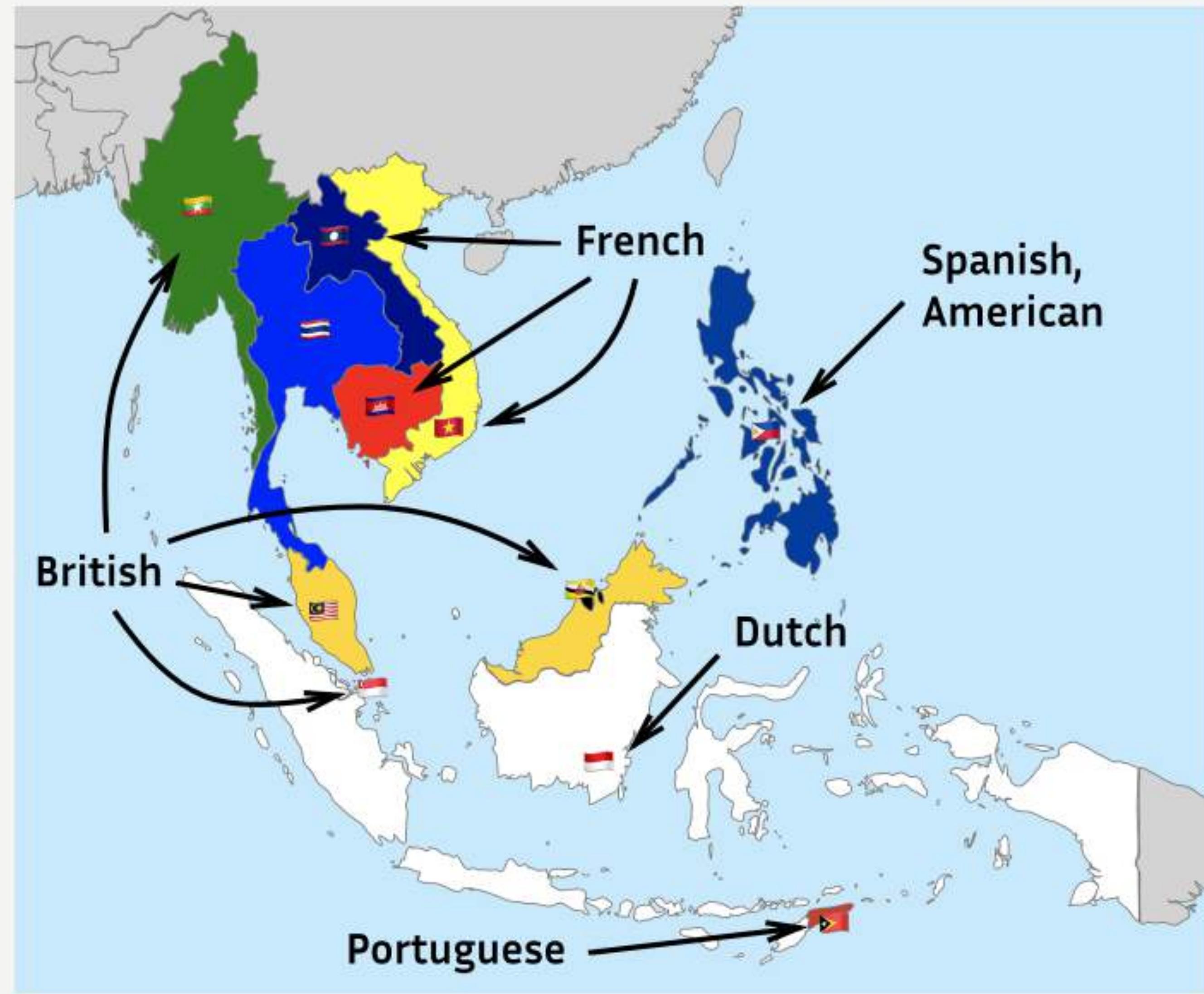


https://youtu.be/Ob6HxVA_q2U?t=190





We are here!





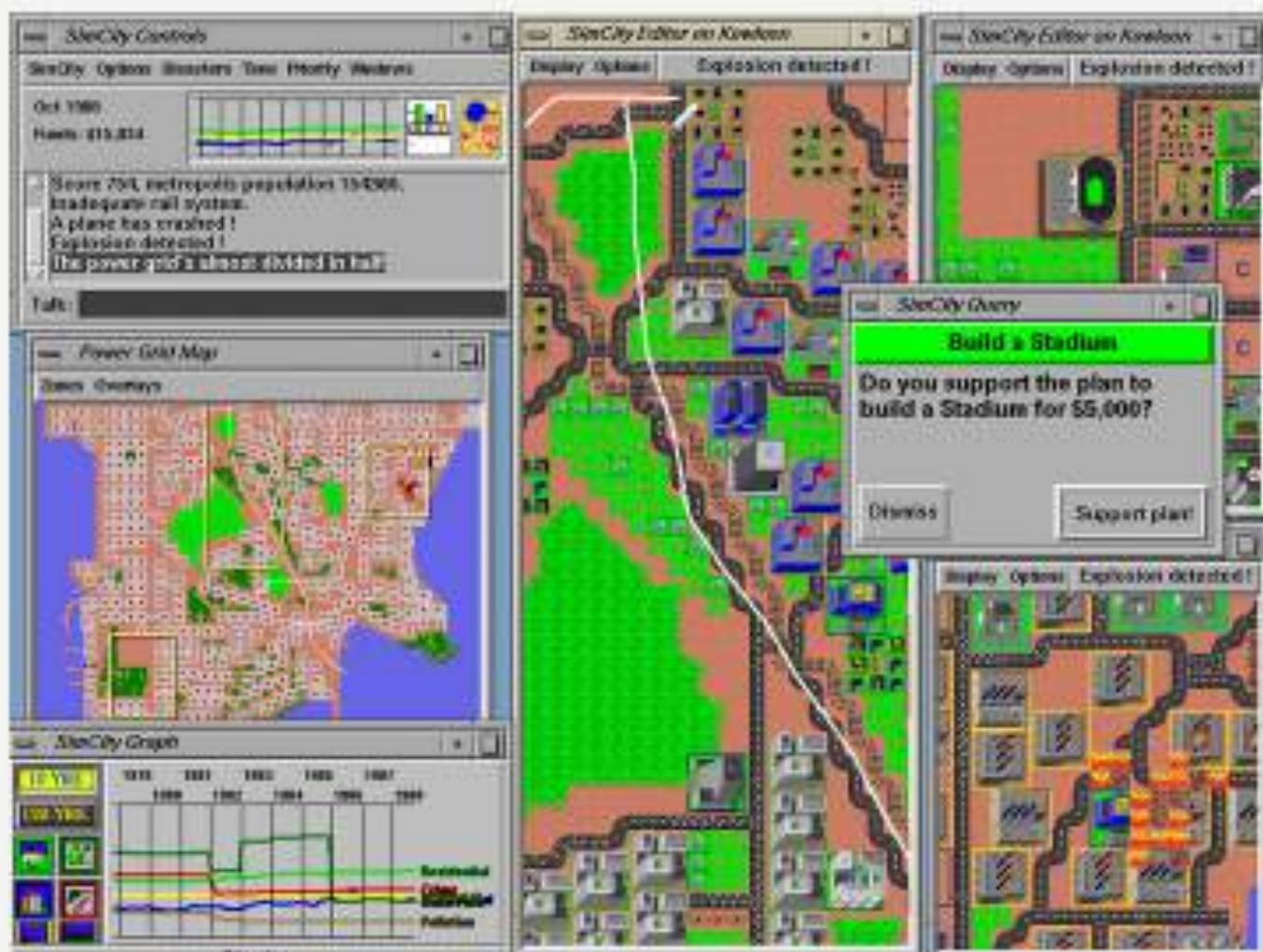
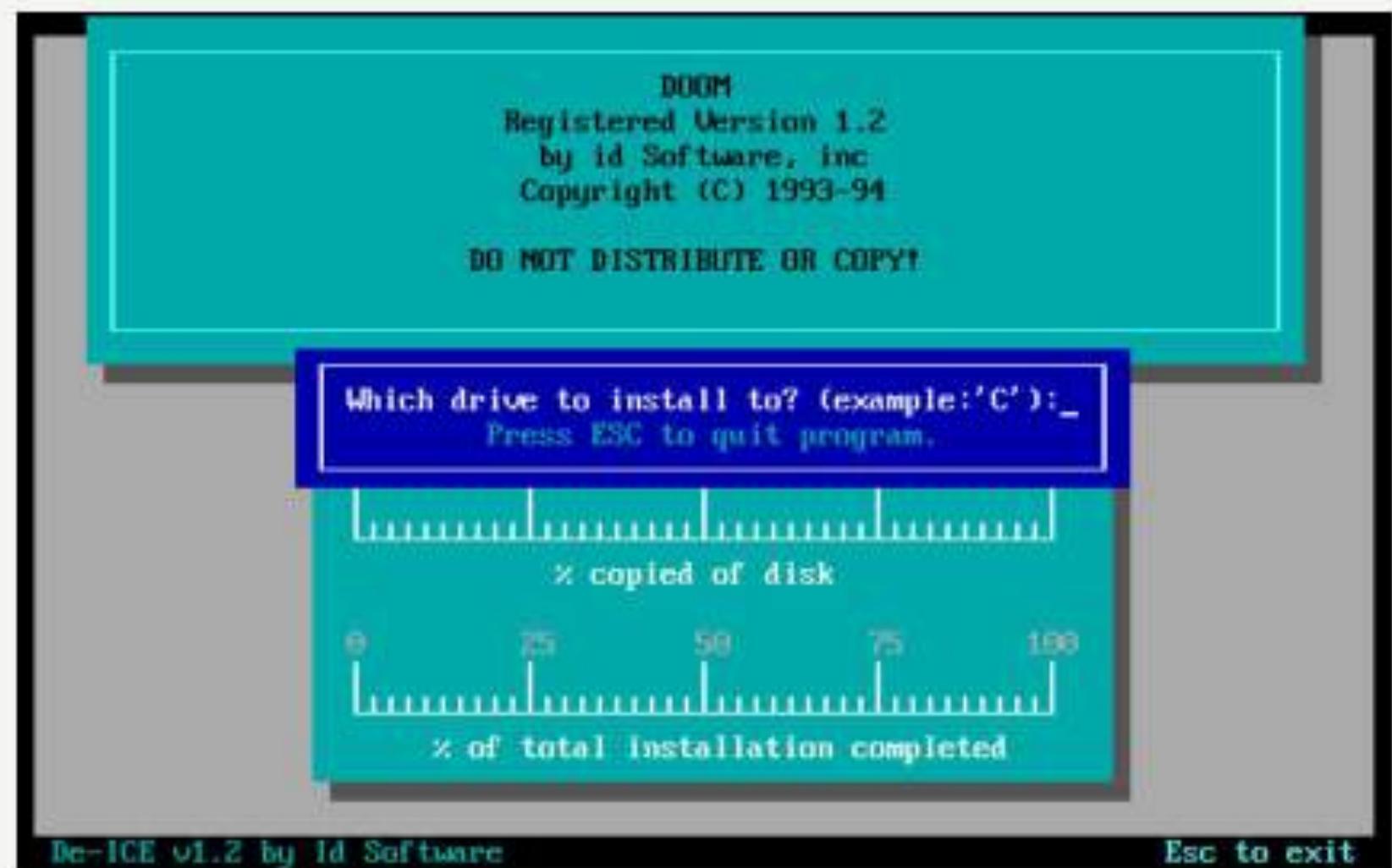
阿依淡菜市場

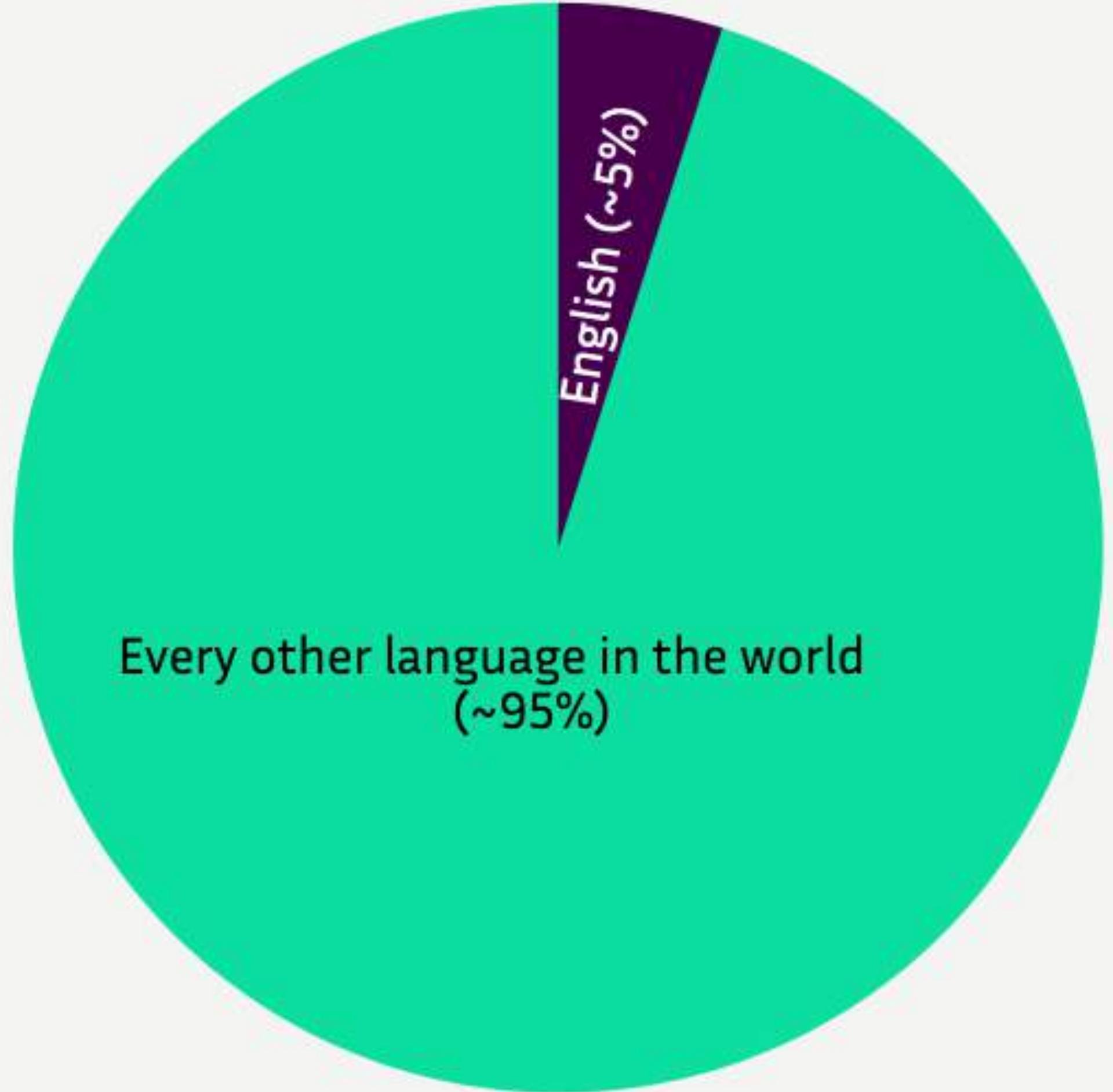
ஆய்ர் ஈத்தாம் சந்தை

AIR ITAM MARKET

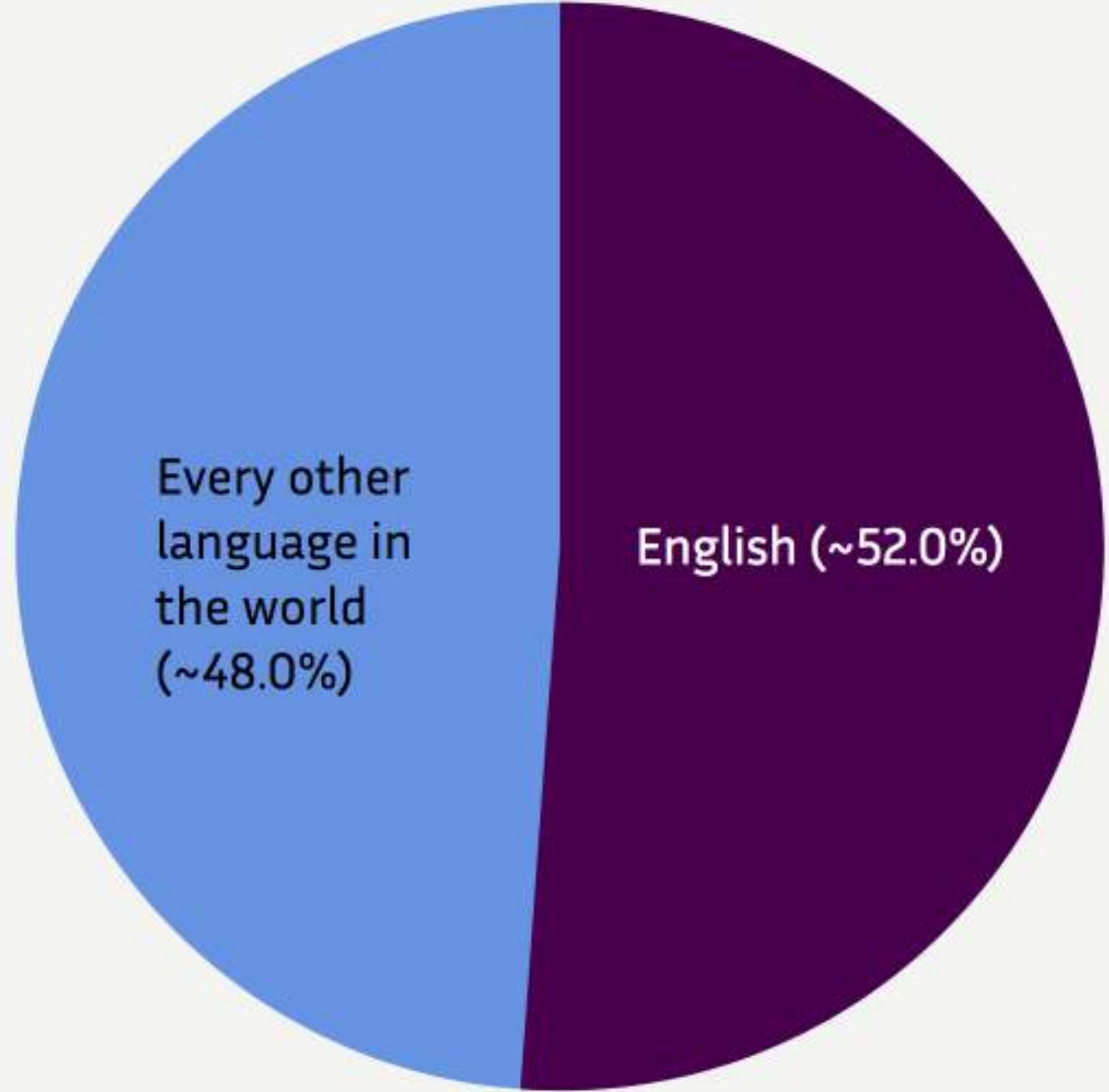
جالن تون عبد الرزاق
JLN. TUN ABDUL RAZAK
80100 JOHOR BAHRU







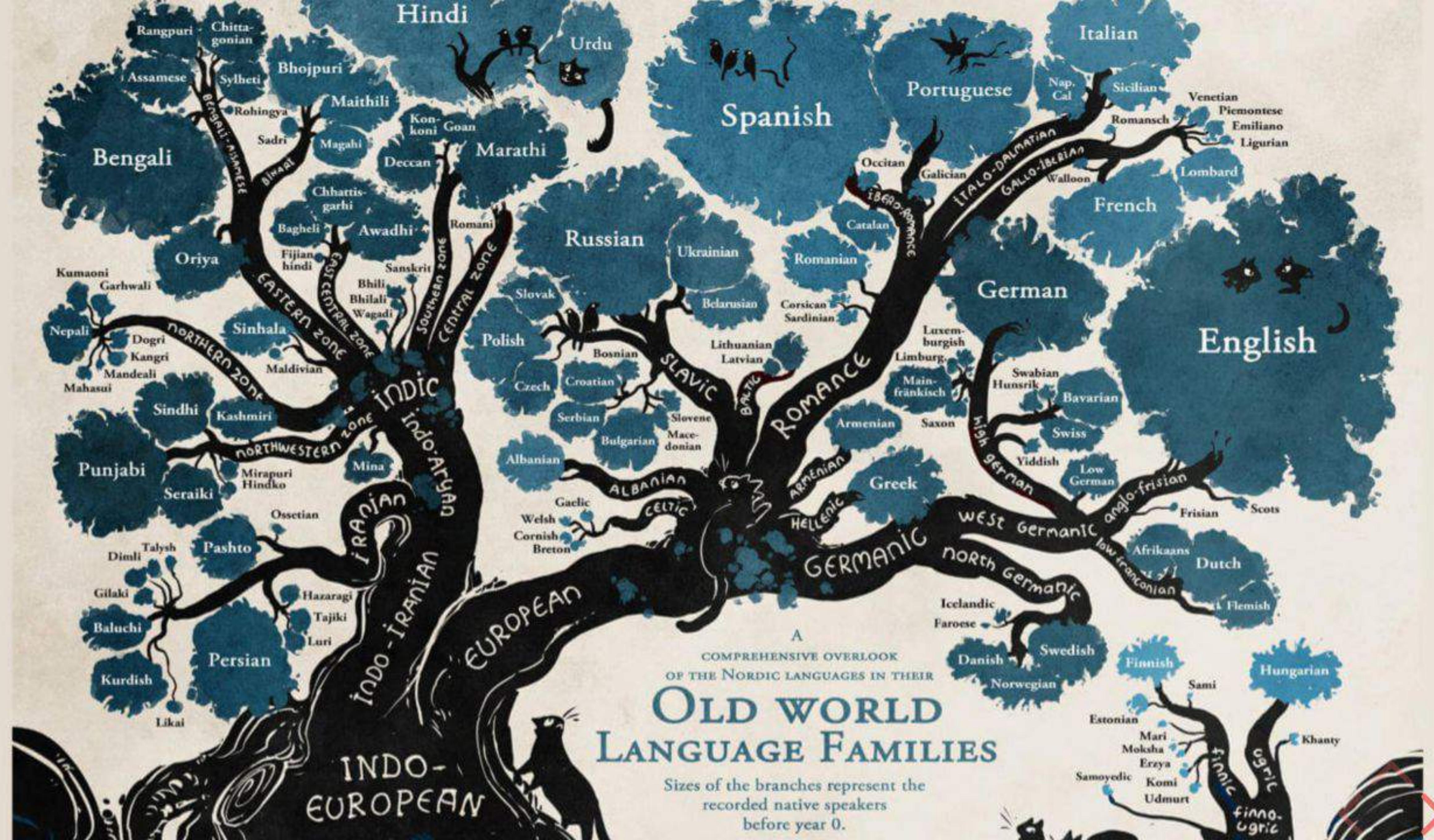
Distribution of languages used around the world

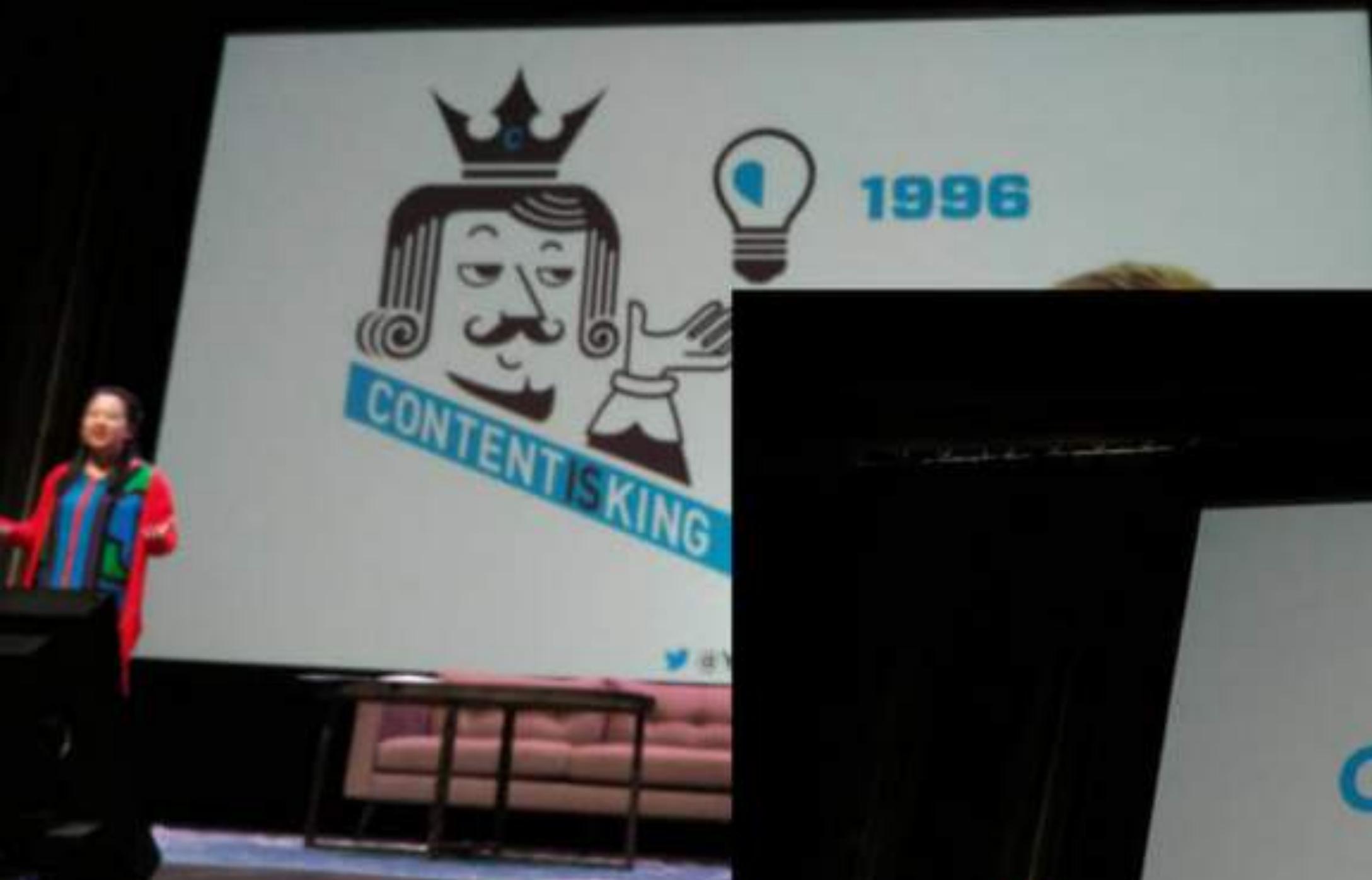


Distribution of content languages on the web

Sources: [Worldometers](#), [Ethnologue](#), [W3Techs](#)







Internationalisation (i18n)

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

—W3C Internationalisation



生命對幾米來說，剛開始像一張牌，他在罹患血癌之後，「童真的憂鬱」，帶給讀者深深的共鳴。功成名就的他作品呈現的「童真的憂鬱」，但他說：「外面的虛浮都是假的，接龍」，一本本創作，才能維繫生命絲線。」空洞

မိုးလင်းကတည်းကပင် ကောင်းကင်သည်
အုံမြိုင်း ညီမြှေနဲ့ကိုရှုသည်။ တိမ်တိုက်ဟူ၍
ဘာမှတွေသဲလင်စွာမဖြင့်ရ။
မိုးကျော်သွေ့ရသည်မှာ ဖြေသန်းနေသော
ပင်လယ်ပြောကြီးလုံးဝါးဝါးဝါးနေသည်။
မိုးသည် ကင်းကင်းလွှတ်လွှတ်ခဲသည် ဟူ၍မရှိ
တဖွံ့ဖွံ့ဖော်လိုက်၊ တဖြောက်ဖြောက်ချုပ်လုံက်နှင့်၊
နောက် စွဲ၍ နေလေသည်။

从前，在马来西亚的西海岸边上，住着一个叫左汉的渔夫，他每天早出晚归出海捕鱼，卖鱼的钱除了吃饭、穿衣等必需的日常开销外，剩下的就不多了。左汉对辛辛苦苦的捕鱼生活很不满意，一心只想着发财。可是，左汉心里明白：靠捕鱼，自己是永远不会成为富翁的。

Chẳng là xem nay bọn mình chém viết chung thõi bao giờ. Cho nên cuối cùng phải thỏa thuận với nhau là cứ viết riêng thõi. Nhưng lại xảy ra chuyện tranh cãi là để ai viết trước bây giờ. Đành rút thăm vậy. Kết quả là mình trúng đầu tiên.

ลิลิตพะลօเป็นเรื่องความรักที่มีอนุภาพ รุนแรงยิ่ง จนแม่ชีวิตก็ยอมพลีให้แก่กัน เนื้อเรื่องกล่าวถึงเมืองสองเมือง คือ เมืองสรอง กับเมืองสรวงเป็นศัตรูกัน เจ้าเมืองสรวงได้มาเจ้าเมืองสรองด้วยในสนามรบ พระชายาเจ้าเมืองสรองมีความแค้นเจ้าเมืองสรวงอย่างยิ่ง

هانق تواه هو محارب وبحار ملايو من ملاكا عاش في عهد حكم السلطان منصور شاه في القرن الخامس عشر الميلادي، وكان واحداً من أقدر أميرالات السلطان الذين يسمون لksamانا إلى جانب هانق كاستوري، وهانق ليكيو، وهانق ليكير، وهانق جيبات.

ถ้าเมื่อถ่ายต่อหน้าไปแล้วฉันหัวส่องจึงฝัง มันไว้ที่หัวนา ตั่นๆ จึงมีเดือนามากันฯเต้าส่อง เดือน เกิดมาจะกราดถวายแล้วก็มีนามากันฯเต้า ให้ย่ส่อง ท่านอยู่ เมื่อหัวสากันฯเต้าให้ย่ส่อง ท่านอยู่นั้นแก่แท้แล้ว ก่อนแล้วได้ยินสรวงคิน ห้อง ฉ่อฯ ดຊอยู่ในหัวสากันฯเต้าท่านอยู่ก็罢。

มาเตารسئะฯ «បង្រៀនលាប្ត់ស្វោះហើយនាងពីដីតិកូបងចេងនរាយបងស្សូច វិនាយបងធ្វើម្រច ? » មេនោះមេ «បើស្រៀនលាប្ត់ចិត្តមួយនឹងគ្នា មានតែលិខូអណ្តកត្តា » ទីបមេនោះ លៀនអណ្តកតហើយនរោងទៅរកមាឆារនោះ។

Do developers even care about
typography?

“Typography is writing with prefabricated letters”

—Gerrit Noordzij



《吴越春秋》十卷，见《张志》
《陆志》、陆《续跋》。宝庆
张志》和《陆志》。宝庆三年

感故昵飄施怨殃少章时桑诗
故遣亲飄生思想精微盛鬱风
新旧闻离天罪卑神恨昭兴
霜履远微地积何遐徵业孟鹿
冰故离隔德怨因幽元倾宣鸣
齐君殊乔貴其备旷
洁子穀木平根嘗远
志惟同誰均難苦离
清新翕阴匀寻辛風
純貞志一专所當
鱗沙流頻逝昇浮沉年殊白日
望微精感通明神龍馳若然
候逝惟時有衰無日不陂流蒙
誰云浮寄身輕飛靄亏不盈无
候必盛有衰无日不陂流蒙
思輝光彷彿殊文德离忠体
想群离散妻孤遺怀仅容仰
悲哀声殊乖分圣質何情忧
懷伤应期雁归皇辭成者作
春方殊离仁意榮身苦惟艰
生患多般忧愁情將如何
欲苍餐穹眸寫忠
岑形熒城榮明庭
幽未犹領苟難開
宕在炎在不受亂
峻慎盛威又消作
仁顏貞寒壁深興后姬源人
賢喪物歲歲慮漸卑班禍諫
別改知識深微至嬖女因奸
行華終凋淵察大趙境所侵
士容始松重遠伐氏好特凶
汪禍用飛辭姿害我
經在昭燕繁祖我
同防青實汉驕忠
羅萌青生成盡榆桑凶
西昭恩諫漫頑
林光溢愚謙退休才
景薄陽移光溢愚謙
退休才和雍節敦貞
記自基

大中華發行

郎女妙
子男美情調優美
不無獵利往處
毒險情墮手道網入

南京麗都明天起同
貝錫爾賴斯朋
大
新嘉坡齊
羅馬刀日

對本片推讚崇揚。佳評美譽，口碑載道。今天三院同映。

卷之三

宋成鐵凋松，真物知終始；
顏衰改華容，仁賢別行士。
這首可回讀的五言詩，用歲寒後
讀，則表現得更加激揚蓬勃，感人至
深。佞奸凶，害我忠貞；
禍固所恃，滅極驕盈。

這裡又對那位奪她夫君的趙陽臺
安，全因了那位趙陽臺謾媚進言，恃
一幅深情玄妙的「璇瓊圖」的意念。
只有自己會心品味，方能漸至佳境。

Phoenician
alphabet

甲骨文

A large hippopotamus stands in shallow, hazy water, facing towards the right side of the frame. Its body is dark grey, and its skin appears moist and wrinkled. The background is a soft-focus landscape of water and distant land.

Hippopotamus
(English) 12 letters

河
马





Lebensgefährte
(German) 14 letters

伴
侶



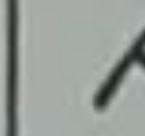
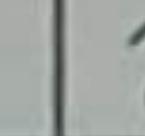
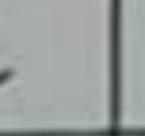
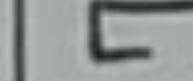
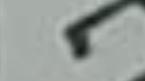
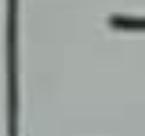
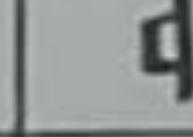
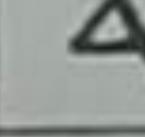
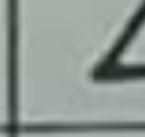
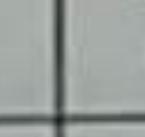
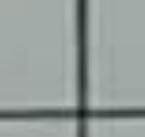
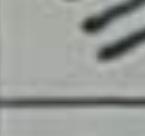
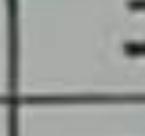
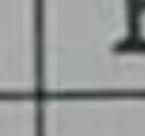
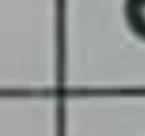
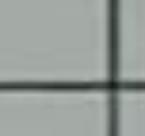
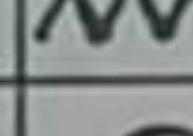
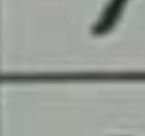
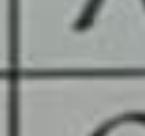
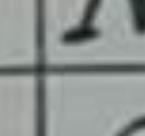
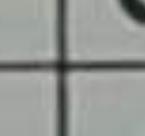
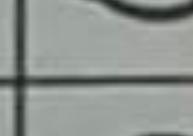
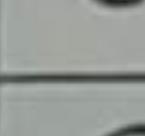
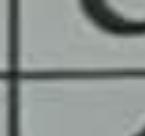
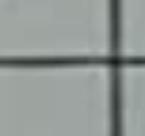
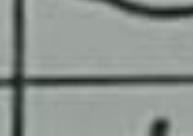
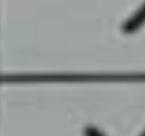
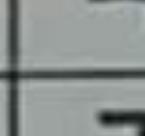
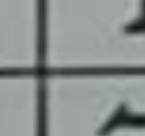
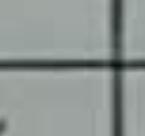
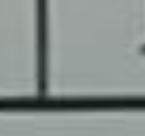
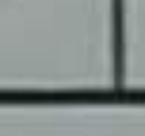


Grianghrafaidóireachta

(Irish) 21 letters

摄
影



ORIGINAL MEANING	Egyptian	Phoenician	Greek	Roman Capital	Roman Uncial	Roman Half-Uncial	Minuscule	MODERN FORMS
Ox				A				
House			B	B				
Camel		>		G				
Door				D				
Window				E				
Water				M				
Eye				O				
Mouth				P				
Cross	+	X	T	T				

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



SERIFS
serifs

SANS SERIF



甲骨文	曰	D	𠂔	𦥑
金文	曰	月	𦥑	駕
小篆	日	月	車	駕
隶书	曰	月	車	馬
楷书	日	月	車	馬
草书	日	月	车	马
行书	日	月	车	马





宋 体

Song Ti

楷 体

Kai Ti

仿 宋 体

Fang Song Ti

黑 体

Hei Ti



丁巳興鄉學

二

長江

往矣猶思舊物

一

申贊食日折繩

二

小云

王維九月九憶山東兄弟
癸未歲荅閻侯劉

少無事相處

三

老大入不入

四

至二十九日

五

久自知

六

當歸

七

時自社

八

舍躬見外

九

不垢外體

十

是是不增

十一

不穢不增

十二

是是不增

十三

水潦浪卷老成海

事

一

頭

在

二

空

是

三

青

浪

四

老

卷

五

成

海

六

江

“Chinese-script projects are crazy. The scope is mind-blowing.”

—David Březina from *The long, incredibly tortuous, and fascinating process of creating a Chinese font*





The Big Picture Presents

Europe 24

This data visualization of Air Traffic in Europe was created from real flight data. It shows the air traffic which flies on a typical summer day and highlights the intensity of the operation in Europe - an operation which runs 24/7, 365 days a year.

Video courtesy of NATS
nats.aero/blog



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Video courtesy of NATS
nats.aero/blog

A photograph of a person in a white space suit floating in a vast, cloudy sky. The person is positioned centrally, facing downwards. A bright, overexposed light source is visible at the top center, casting long, thin white streaks of light across the frame. The clouds are a mix of white and light blue.

The web is a unique medium of
its own



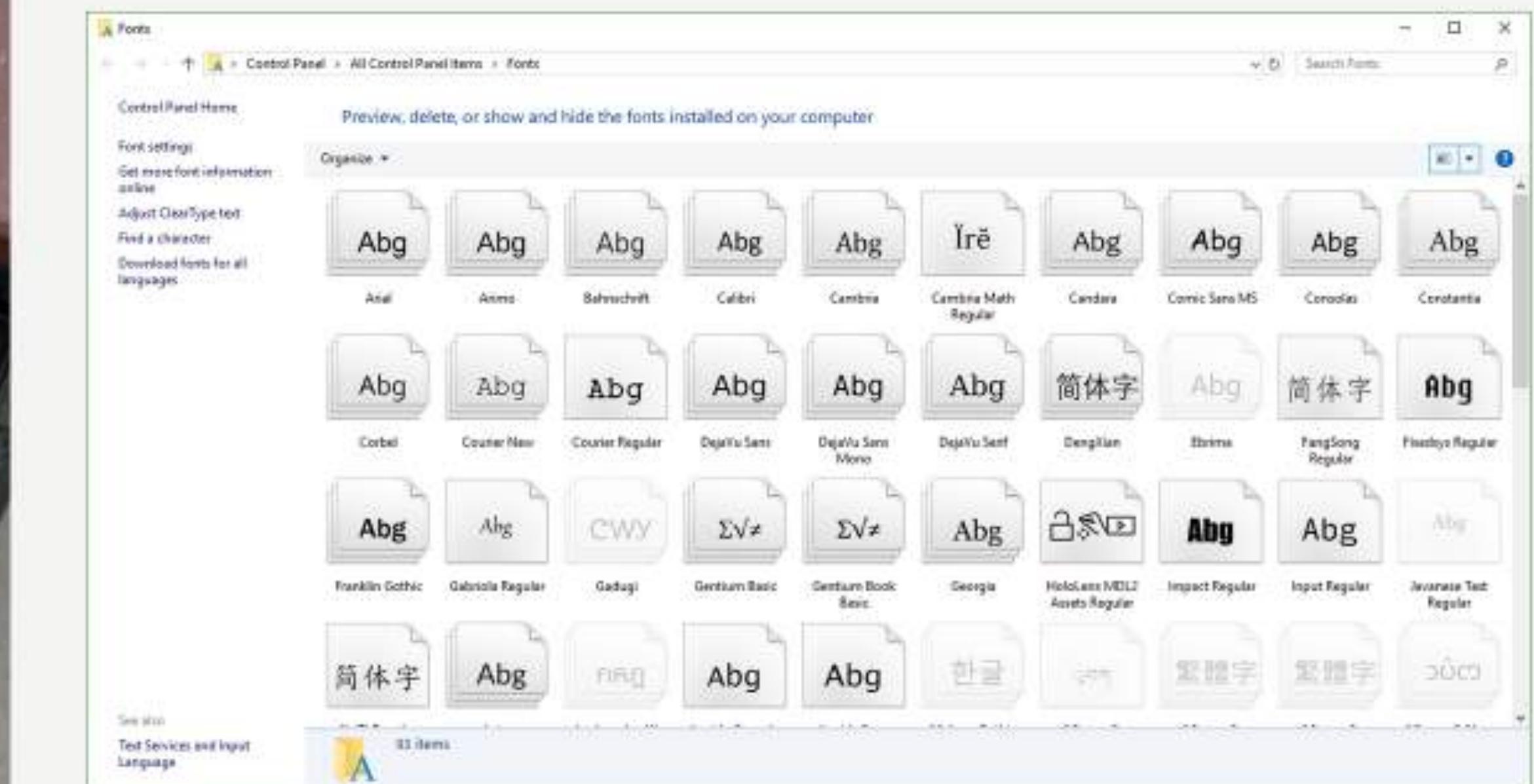
Web fonts

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

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



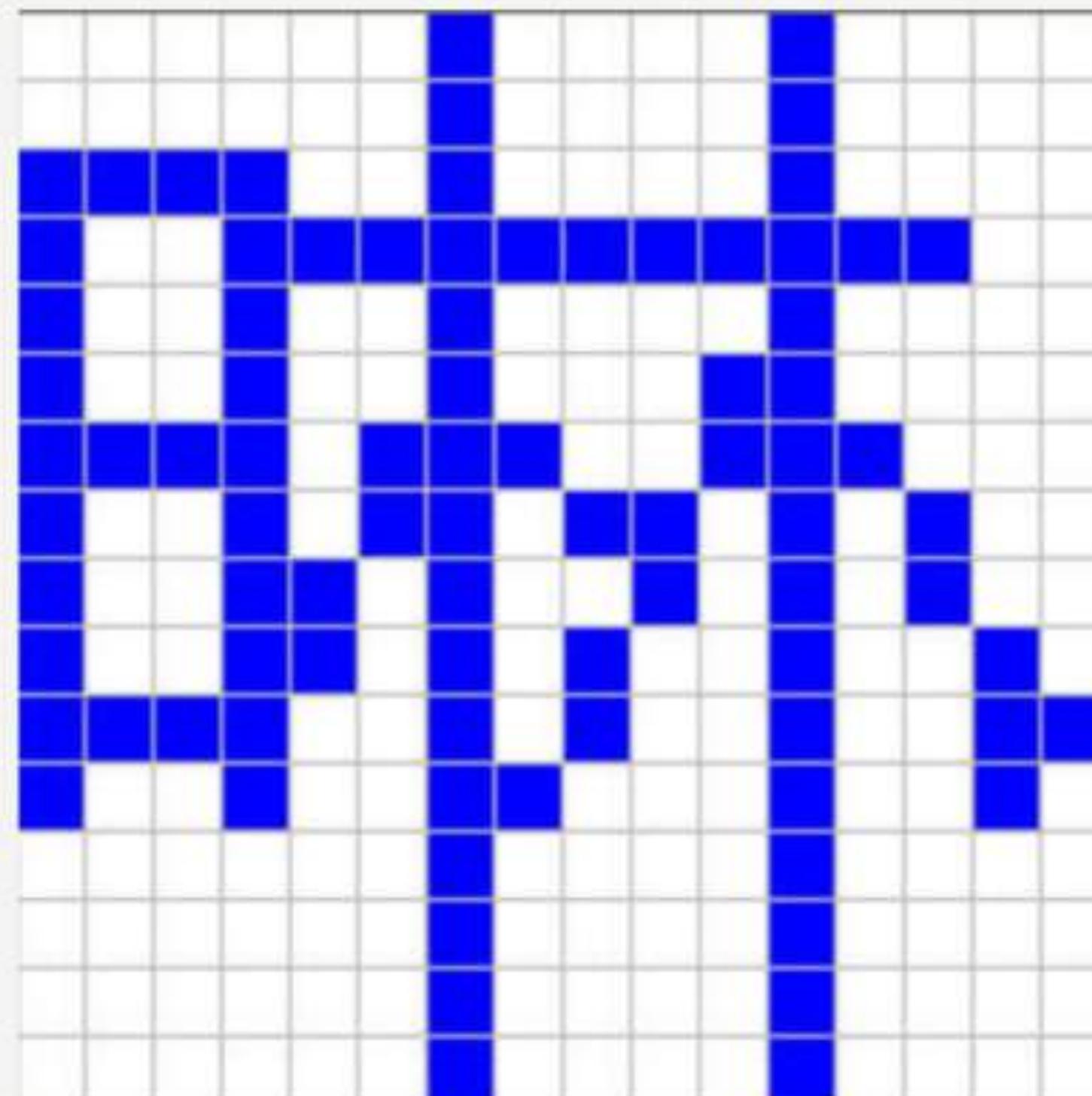
What is a font?



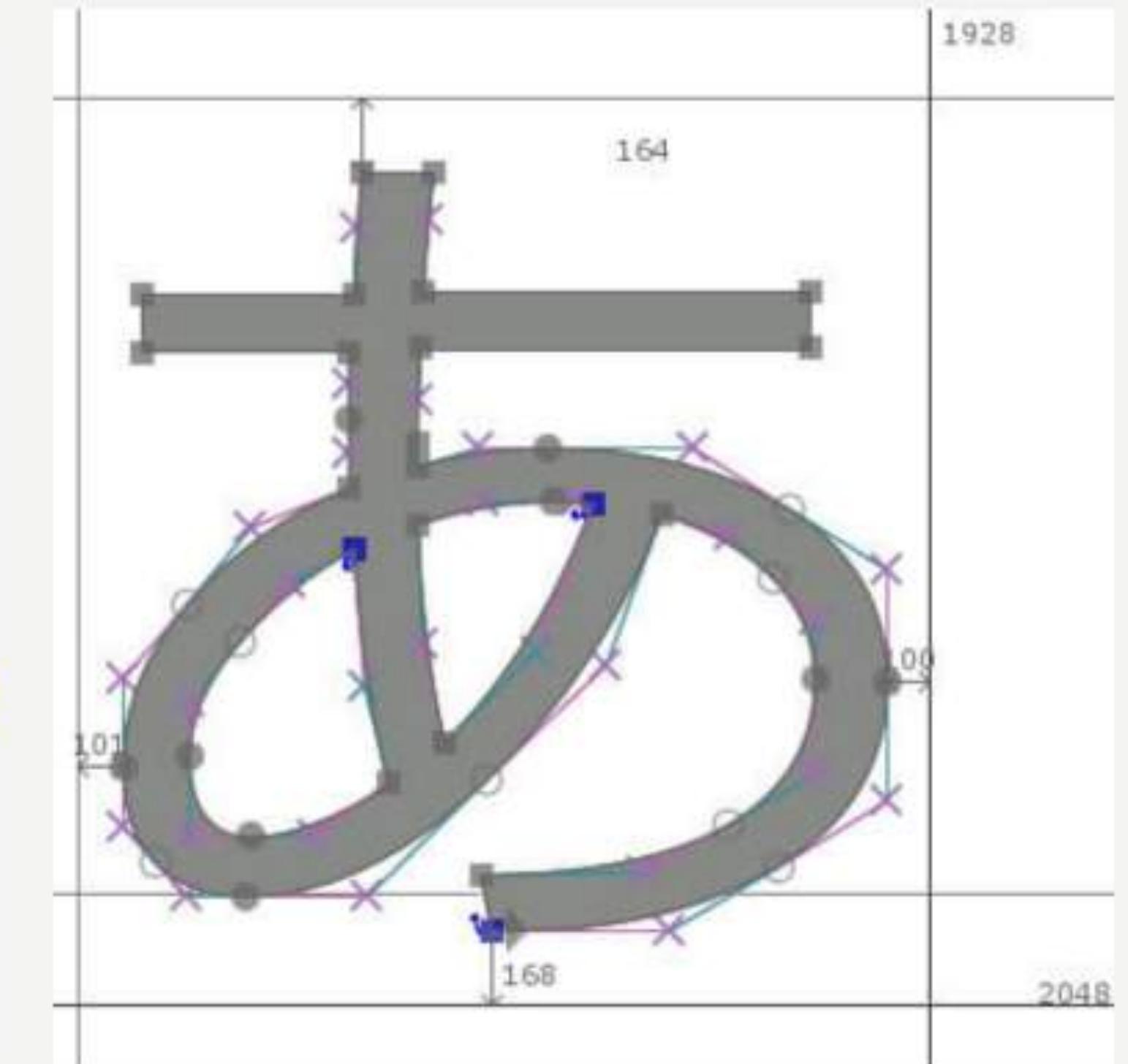
And what are glyphs?



M



琳



あ



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



Adobe

TTF (TrueType)



Microsoft



EOT (Embedded Open Type)



Microsoft

SVG (Scalable Vector Graphics)

SVG



@font-face

```
@font-face {  
    font-family: 'Inria Sans';  
    src: url('inriiasans-regular.woff2') format('woff2'),  
         url('inriiasans-regular.woff') format('woff');  
}
```

WOFF - Web Open Font Format [↗](#)

Compressed TrueType/OpenType font that contains information about the font's source.



WOFF 2.0 - Web Open Font Format [↗](#)

TrueType/OpenType font that provides better compression than WOFF 1.0.



Anatomy of an @font-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  
    font-stretch: normal | ultra-condensed | extra-condensed  
    unicode-range: <urange> #;  
    font-variant: normal | none | [ <common-lig-values> || <  
    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/andikanewbasic-r.woff2') format('woff2')  
        url('fonts/andikanewbasic-r.woff') format('woff');  
    unicode-range: U+0-2FF; /* Unicode range for Latin characters */  
}
```



这是一行中文字体。 This is some English text.

```
Inspect Console Debug Style Edit Performance Memory Network Storage ⌂ ⌃ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋ X
+ Search HTML
@font-face { font-family: 'Heiti Plus'; src: local('Heiti SC'); } @font-face {
  font-family: 'Heiti Plus'; src: url('andikanewbasic-r.woff2') format('woff2'),
  url('andikanewbasic-r.woff') format('woff'); unicode-range: U+0-2FF; /* Unicode
  range for Latin characters */ } body { font-family: 'Heiti Plus', sans-serif;
  font-size: 200%; }
</style>
</head>
= <body>
  <p>这是一行中文字体。 This is some English text.</p>
</body>
</html>
html > body > p
```

Rules Computed Layout Animations Fonts

Heiti SC Light
System

```
  @font-face {
    font-family: "Heiti Plus";
    src: local("Heiti SC");
  }
```

Andika New Basic
file:///Users/huijing.chen/Desktop/webfontkit-20180404-021951/andikanewbasic-r.woff2

```
  @font-face {
    font-family: "Heiti Plus";
    src: url("andikanewbasic-r.woff2") format("woff2"), url("andikanewbasic-r.woff") f...
    unicode-range: U+0-2FF;
  }
```

Filter output Persist Logs

Descriptors

describe individual font faces

Properties

requests for styling



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 b

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

b b b



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

Minion Pro

afwn

Roboto

afwn

Minion Pro Faux Bold

afwn

Roboto Faux Bold

afwn

Minion Pro Bold

afwn

Roboto Bold

afwn

Minion Pro

afeunyi

Minion Pro Faux Italic

afeunyi

Minion Pro Italic

afeunyi

Image credit: Piotr Gochowski



Font feature properties

font-kerning

A V W a

No kerning

A V W a

Kerning applied

font-variant-position

C₁₀ H₁₆ N₅ O₁₃ P₃

C₁₀ H₁₆ N₅ O₁₃ P₃

font-variant-position-ligatures

fi ► fi tʒ ► ß

WORDS ► **WORDs**
labor of love ► *labor of love*

font-variant-numeric

1st 17th 2a ► 1st 17th 2^a

2 1/3 ► 2 1/3 Lining Old-Style

4000 ► 4000 409,280 409,280

367,112 367,112

155,068 155,068

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

Jesuits ► Jefuits
quick ► quick Quick ► Quick

incroyable ► **incroyables**

• ► ☰ ☱ ☲ 519 ► ⑤①⑨

font-variant-east-asian

麹町 ➤ 麹町

大学 ➤ 大學

欧文フォント ➤ 欧文フォント



font-feature-settings

Provides low-level control of advanced OpenType features

aalt	cpsp	frac	jp83	mset	psts	smcp	ss15	twid
abvf	cswh	fwid	jp90	nalt	pwid	smpl	ss16	unic
abvm	curs	half	jp04	nlck	qwid	ss01	ss17	valt
abvs	cv01-cv99	haln	kern	nukt	rand	ss02	ss18	vatu
afrc	c2pc	halt	lfbd	numr	rclt	ss03	ss19	vert
akhn	c2sc	hist	liga	onum	rkrf	ss04	ss20	vhal
blwf	dist	hkna	ljmo	opbd	rlig	ss05	ssty	vjmo
blwm	dlig	hlig	lnum	ordn	rphf	ss06	stch	vkna
blws	dnom	hngl	locl	ornm	rtbd	ss07	subs	vkrn
calt	dtls	hojo	ltra	palt	rtla	ss08	sups	vpal
case	expt	hwid	lfrm	pcap	rtlm	ss09	swsh	vrt2
ccmp	falt	init	mark	pkna	ruby	ss10	titl	vrtr
cfar	fin2	isol	med2	pnum	rvrn	ss11	tjmo	zero
cjct	fin3	ital	medi	pref	salt	ss12	tnam	
clig	fina	jalt	mgrk	pres	sinf	ss13	tnum	
cpct	flac	jp78	mkmk	pstf	size	ss14	trad	



Variable fonts

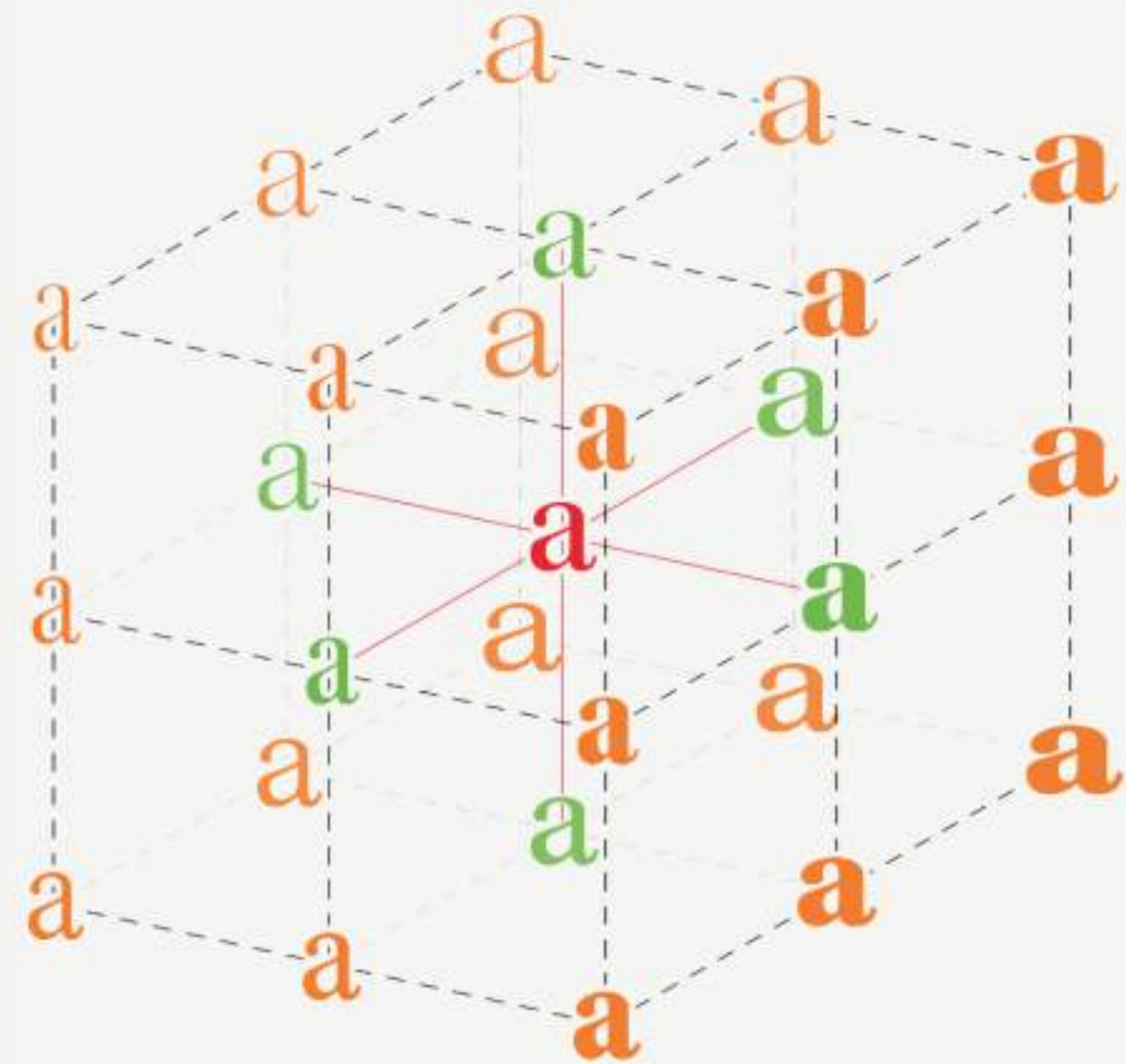


Image credit: John Hudson

CSS property	Tag	Name	Description
font-weight	'wght'	Weight	Used to vary stroke thicknesses to give variation from lighter to blacker.
font-style	'slnt'	Slant	Used to vary between upright and slanted text.
font-stretch	'ital'	Italic	Used to vary between non-italic and italic.
font-optical-sizing	'wdth'	Width	Used to vary width of text from narrower to wider.
	'opsz'	Optical size	Used to vary design to suit different text sizes.



Variable Fonts Experiments

A collection of experiments with variable font text effects. Warning: These are really heavy on your computer.

Special credit to David Berlow for the fonts <https://twitter.com/dberlow>

Mandy Michael [Follow](#)

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EDIT ON [CODEPEN](#)

HTML SCSS JS Result

font-variation-settings

Provides low-level control over OpenType or TrueType font **variations**



[Introduction](#)[MY SPECIMENS](#)[Old Default](#)[SPECIMENS](#)[文鼎晶熙黑](#)[晶熙ゴシック体](#)[Amstelvar](#)[Avenir Next](#)[BitCount](#)[Buffalo Gal](#)[Compressa](#)[Decovar](#)[DIN 2014](#)

濃愁 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」。

濃愁 小猶豫

<https://www.axis-praxis.org/>

TEXTBOX

Textbox

heading-1

Font

AR UDJingXiHeiVF Medium



Drag & drop fonts here

Font size

Line-height

Alignment

CSS

New textbox

Delete textbox

FONT VARIATIONS

Instance

Medium (default)

Weight

500

Width

90.7

FONT FEATURES**COLOUR**

新生火柴廠

Flyingman Safety Matches



TRADE MARK

ماهيس اون سرچ جت رسالہ

SINCERE MATCH & TOBACCO FACTORY LTD.
PETALING JAYA, KUALA LUMPUR, MALAYA.

飛人牌火柴



PANAU SALAP CHAP GAJAH



Hanya satu sahja PANAU SALAP yang selalu dipakai orang yaitu

PANAU SALAP CHAP GAJAH

kerana penyakit

- ★ PANAU
- ★ KURAP
- ★ GATAL²
- ★ Dan Lain²

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



Kansai Yamamoto Fashion Avant-Garde - Art+Culture

Japanese Contemporary Kimono - Classic



Kansai Yamamoto became known for his avant-garde designs. Since his last collection in 1992, he has returned to kimono designs which caught the eye of David Bowie. In addition as a designer of traditional Japanese garments who wore them on his Ziggy Stardust tour.



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).



i s f u n -

> e r t i u s - t e x t

i s f u n -



Or make it read from right-to-left.



to-right.

literally turn on its side from left-

You can make your browser



writing-mode property

horizontal-tb 从1987到现在

vertical-rl
到现在 从1987

vertical-lr
从1987 到现在

sideways-rl*
到现在 从1987

sideways-lr*
从1987 到现在



text-orientation property

从1987到现在

mixed

从1987到现在

upright

从1987到现在

sideways



text-combine-upright property

民國106年7月3日

none

民國106年7月3日

all

民國106年7月3日

*digits <integer>**

Codepen example for text-combine-upright



max-height: 25em

MNBL女子决赛·昔加末攀高峰夺冠

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

陈慧晶夺生涯首个MVP

陈慧晶在初赛与半决赛并不是特别抢眼，岂知来到决赛却成为了球队的致胜功臣。身高177公分的陈慧晶此役14投8中，命中率高达57%，尤其最后一节更是独得8分，顶住了高峰队的反扑。凭藉决赛的精彩演出，陈慧晶也因此当选决赛MVP(最有价值球员)，生涯首次获得这一项荣誉。

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

多次靠三分球扩大比分

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，邱媒媚就轰进三分球，然后在22比31时，汪秀婷也射出一记三分弹，来到比赛最后5分钟高峰以45比53咬紧比分时，邱媒媚又适时出手命中三分球，让高峰队多次努力无功而返。

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

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

雷升龙：发挥输对手5%

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

雷升龙说：「我们和昔加末其实都属于同样水平的队伍，胜负关键就要看双方球员的临场表现，而在这一方面我们在决赛中输了5%。」

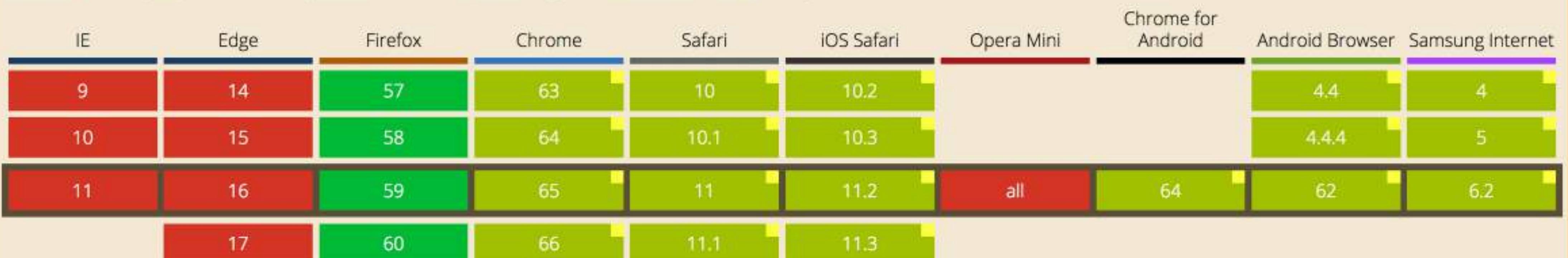
Willem de Kooning

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

CSS Logical Properties

CSS Logical Properties

Use start/end properties that depend on LTR or RTL writing direction instead of left/right



  Partial Support  Prefixed

Global: 4.86% + 85.21% = 90.07%

Data from caniuse.com | Embed from caniuse.bitsofco.de

[Enable accessible colours](#)





<https://www.smashingmagazine.com/2018/03/understanding-logical-properties-values/>

The screenshot shows a web browser displaying an article from Smashing Magazine. The title of the article is "Understanding Logical Properties And Values". Below the title, there is a short excerpt: "In the past, CSS has tied itself to physical dimensions and directions, physically moving the elements of a document left, right, up, or down. With the introduction of logical properties, we can, at last, move away from the physical world and into the logical one." The URL of the article is visible at the top of the browser window: <https://www.smashingmagazine.com/2018/03/understanding-logical-properties-values/>.



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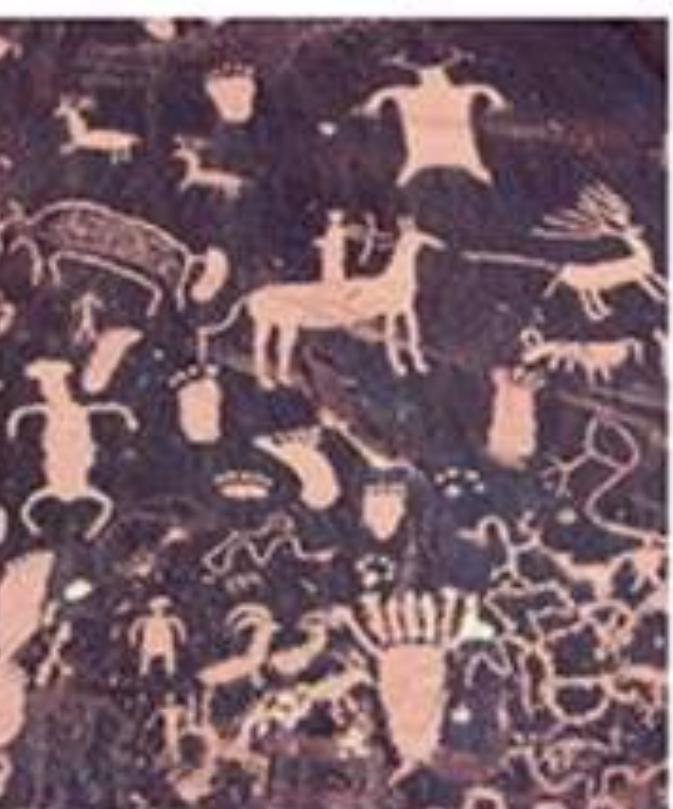
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文字的故事

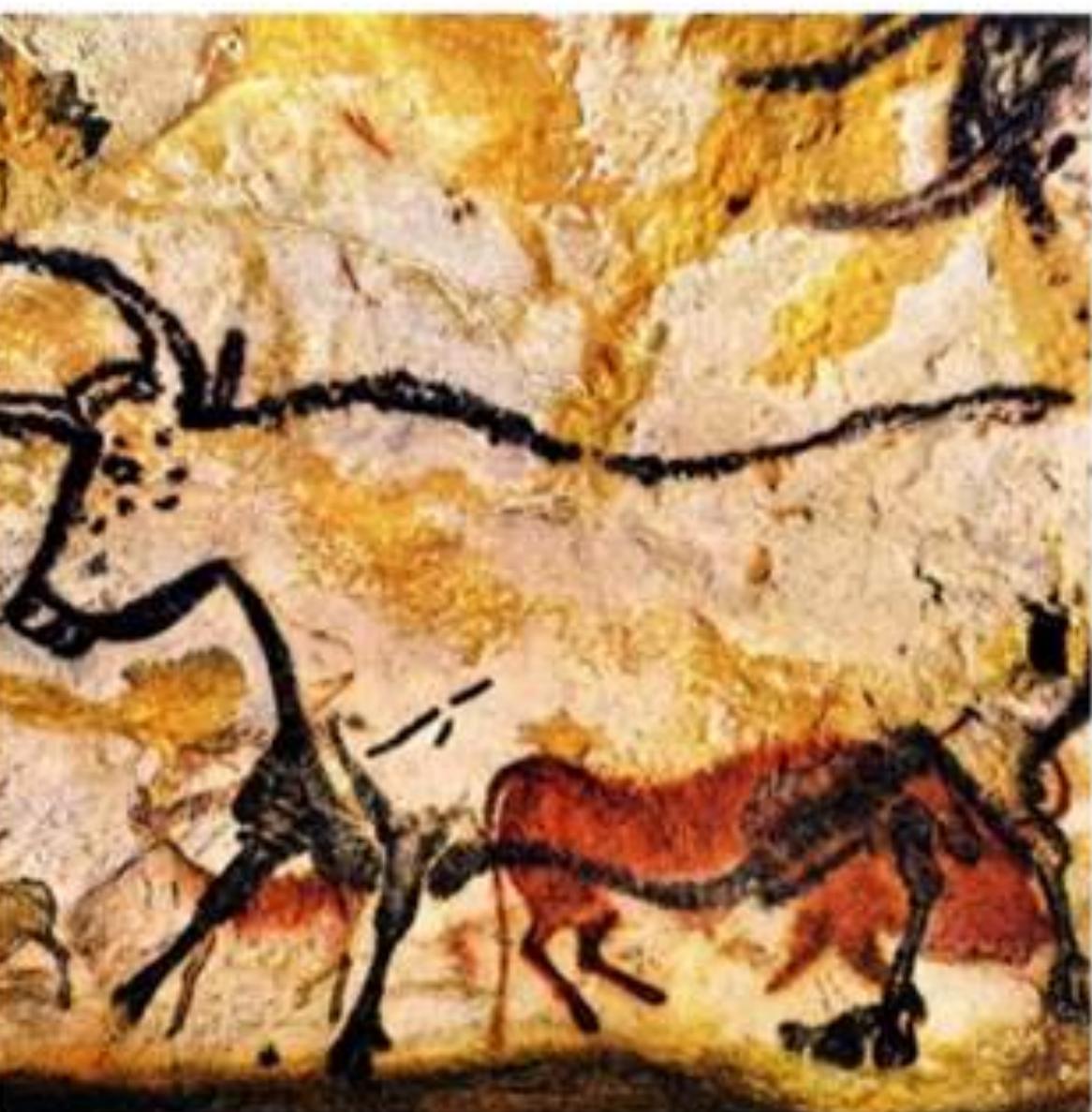
記錄：演變 05/20/2014

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蹤的時候，那便是最早的「視覺交流與傳播」（Visual Communication）的開始。

最早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畫



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



古代中亞文明的黑石鴨形，是由烏爾王奉獻給南那神的供品，公元前3000年左右



竖排



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

- ▶ For review: [Inline 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 bidi](#) August 7, 2017
- ▶ For review: [Floating times](#) June 15, 2017
- ▶ New article: [Approaches to full justification](#) April 3, 2017
- ▶ Talk slides: [JEPAP seminar](#)
- ▶ Unicode Conference speaker submission deadline 24 March March 20, 2017
- ▶ For review: [Approaches to full justification](#) March 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 (ie. 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.

[Leave a comment](#)

Tags: [article](#)-[inline](#)-[bidi](#)-[markup](#)

Categories: [i18n](#) [i18n WG](#) [i18n Interest Group](#) [i18n Tag Set \(ITS\) IG](#) [Arabic Layout Task Force](#) [Chinese Layout Task Force](#) [Ethiopic Layout Task Force](#) [Hebrew Layout Task Force](#) [Indic Layout Task Force](#) [Community groups](#)

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- ▶ [Text layout index](#)
- ▶ [Text layout tracker](#)
- ▶ [Type samples](#)
- ▶ [Review radar](#)
- ▶ [Review tracker, github](#)
- ▶ [Review guidelines](#)
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- ▶ [Tests](#)
- ▶ [i18n checker](#)
- ▶ [MultilingualWeb](#)
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Group pages

- ▶ [Activity Statement](#)
- ▶ [i18n WG](#)
- ▶ [i18n Interest Group](#)
- ▶ [i18n Tag Set \(ITS\) IG](#)
- ▶ [Arabic Layout Task Force](#)
- ▶ [Chinese Layout Task Force](#)
- ▶ [Ethiopic Layout Task Force](#)
- ▶ [Hebrew Layout Task Force](#)
- ▶ [Indic Layout Task Force](#)
- ▶ [Community groups](#)



Penang Hokkien website

About page



为什么呢？因为我想把所有跟槟城福建话有关的资料收集在这里。如果你觉得我是吃饱没事做，其实这是有理由的。

几个月前，我在面子书看了一个TEDx茨厂街的视频，名称如果福建话失传了，我们会失去什么？演讲者是黄啟翹，而他尽然是用粤语来演讲。但是这个演讲让我更加赏识槟城福建话。

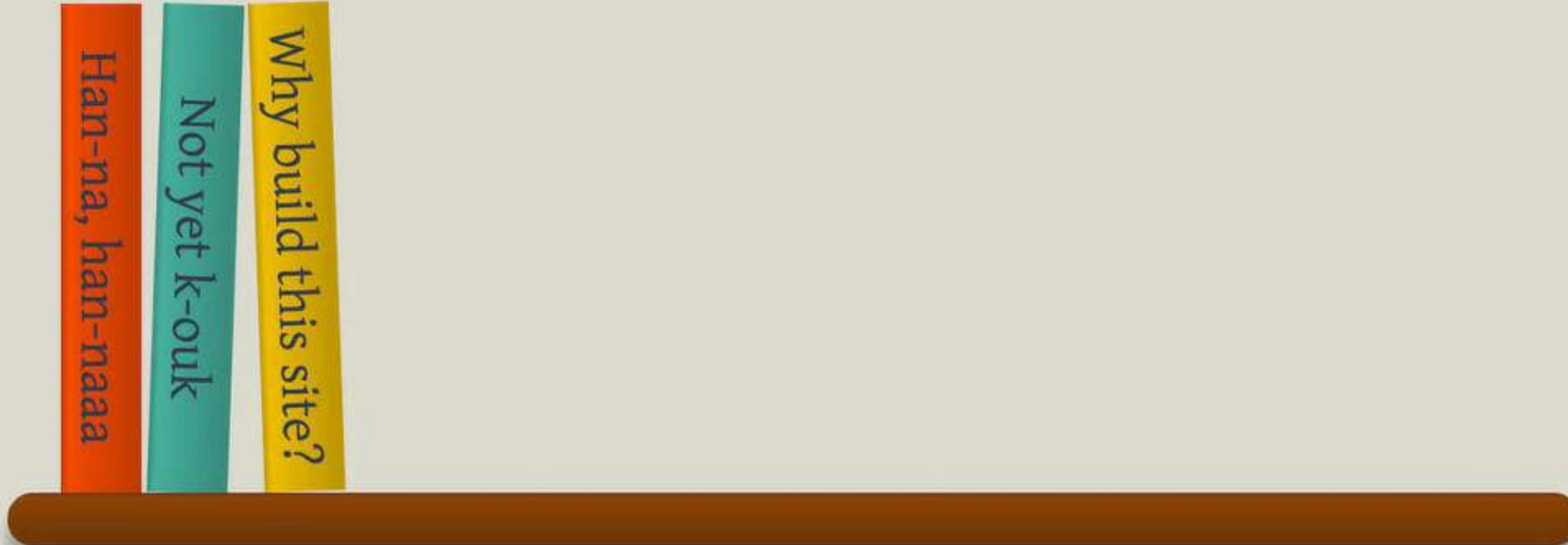
槟城福建话是我的母语。我记得小时候跟妈妈一起阅读英文书，记得阿嬷教我写中文字，但是我觉得自己一出生就已经会说福建话了。念书时，在学校能够用福建话沟通的同学少之又少，算起来也只有一位。即使我们俩说的都是福建话，但是腔调跟词汇都显然有差别，因为她说的是新加坡福建话。

我跟家人离开槟城已经有二十多年了，所以我只有在家中有机会听到槟城福建话，或则就是一年一度返乡的那几天而已。虽然偶尔会有闽南语的电视节目，但是我从来没听过槟城福建话的广播。

Nut yet k-ouk *

Have a story? [Send it in!](#)

PGHK stories 此端裡數的故鄉



Bookshelf-style design with vertical text



[Capabilities](#)[Partners](#)[Blog](#)[Contact](#)

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 [previous post](#) 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.

Vertical blog tags

Front-end





Home

This is a website dedicated to Penang Hokkien, the language of my hometown. I talk about the inspiration for the content of this site in the [inaugural story post](#). But I am also a web developer, and so this site also serves as my CSS playground for experimenting with the concept of mixed writing-modes. If that sentence made sense to you, [technical details here](#).

English

中文

关于
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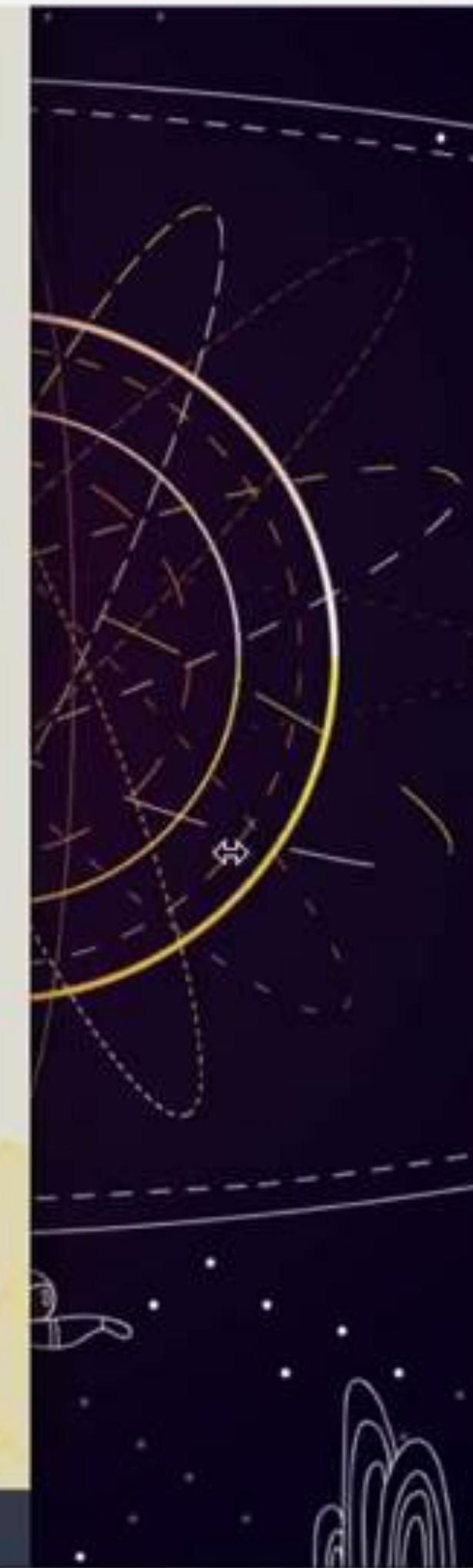
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Responsive vertical to horizontal layout



EPYPHITE

Without roots.
Everywhere.

ABOUT US

PRODUCTS

SERVICES

OUR PHILOSOPHY

BLOG

CONTACT

0800 (+08) - Waiting...
0800 (+08) - Waiting...
0800 (+08) - Waiting...
0800 (+08) - Waiting...

0800 (+08) - WAITING...
0800 (+08) - WAITING...
0800 (+08) - WAITING...



Vertical mobile navigation



17 bugs found.

ID	Product	Comp	Assignee A	Status ▲	Resolution	Summary	Changed
626476	Core	Layout	nobody@mozilla.org	UNCO	---	css3flexbox : create pseudo css states :orient-vertical and :orient-horizontal	2011-01-27
1380602	Core	Layout	nobody@mozilla.org	UNCO	---	Vertical margin and padding in percent in the inner of flex layout container	2017-09-22
1389122	Core	Layout	nobody@mozilla.org	UNCO	---	Vertical flex container does not correctly auto-size on the main axis when it contains a flexed item	2017-09-27
1397768	Core	Layout	nobody@mozilla.org	UNCO	---	flex children of <button> are always vertically centered, despite align-items or justify-content	2018-02-23
1427798	Core	Layout	nobody@mozilla.org	UNCO	---	Element occupy vertical space in flexbox when has no height	2018-02-20
734525	Core	Layout	dholbert@mozilla.com	NEW	---	multicol elements are too tall, as flex items in a vertical flex container	2013-09-20
799713	Core	Layout	nobody@mozilla.org	NEW	---	Investigate sizing of auto-height/auto-width multicol elements in a vertical flexbox	2013-04-01
995020	Core	Layout	nobody@mozilla.org	NEW	---	intrinsic width of vertical multi-line flexbox is incorrect, when wrapping is needed (with flex-flow: column wrap)	2018-02-23
1054083	Core	Layout	nobody@mozilla.org	NEW	---	In vertical flex containers, treat intrinsic sizing keywords for flex-basis as if they were "auto"	2014-08-14
1092007	Core	Layout	nobody@mozilla.org	NEW	---	For flex items in a vertical flex container, only treat heights as definite (for resolving % heights on children) if the flex-basis (or flex container's height) is also definite	2018-01-12
1228176	Core	Layout	nobody@mozilla.org	NEW	---	offsetWidth/offsetHeight calculation is slow in vertical flexbox, with flex item that has default "min-height:auto" and tons of child nodes	2017-06-06
1318825	Core	Layout	nobody@mozilla.org	NEW	---	[css-flexbox] Vertical-writing-mode flex item in horizontal flex container has wrong width	2017-12-03
1310551	Core	Layout	nobody@mozilla.org	NEW	---	orthogonal flows (vertical writing-mode inside horizontal) can produce intrinsic sizes of 0, e.g. in floats & flex items	2018-02-06
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
1384266	Core	Layout	nobody@mozilla.org	NEW	---	Assertion failure: sideToMeasureFrom == eSideBottom (We already checked that we're dealing with a vertical axis, and we're not using the top side, so that only leaves the bottom...), at src/layout/generic/nsFlexContainerFrame.cpp:1987	2018-03-02
1420631	Core	Layout	nobody@mozilla.org	NEW	---	Vertical inline-flex throws content far away from where it should be	2017-11-27
1436896	Core	Layout	nobody@mozilla.org	NEW	---	Flex item with child-percent-padding-imposed aspect-ratio & vertical WM isn't sized the same as in other browsers	2018-02-20

17 bugs found.

Long Format

XML

[Short URL](#) | [REST](#) | [CSV](#) | [Feed](#) | [iCalendar](#)
[Change Columns](#)

Edit Search

Remember search as

Bugs, bugs, bugs



Bugzilla@Mozilla

mozilla

Choose query: You Are CC'd On (add or remove saved searches)

File a Bug: Search by product and component

You Are CC'd On

You are in the CC list of the bug, so you are watching it.

4 bugs found | Refresh | Buglist

Bug	Updated	Status	Summary
1181227	14 hours ago	ASSIGNED	[meta] CSS Grid Inspector
1296309	3 days ago	NEW	Support calc() in CSS properties that take <integer> values
1339672	9 days ago	NEW	[css-grid] grid-auto-columns/rows should accept multiple track-size values
1329261	4 months ago	NEW	All auto margins resolve to 0, on elements with vertical writing-mode (in a horizontal writing-mode parent)

Home New Browse Search Reports My Dashboard Product Dashboard

Privacy Notice | Legal Terms

Bugzilla@Mozilla

bugs Project: chromium Issues People Development process History

New issue Search Open issues for Search Advanced search Search tips Saved queries

Note: Color blocks (like or) mean that a user may not be available. Tooltip shows the reason.

Issue 501071

Starred by 57 users

Project Manager: Reported by [baffner@chromium.org](#), Jun 16 2015 | Back to list

color emoji disappear at 257 device pixels on Android, ChromeOS and Linux

Status: Assigned Owner: [baffner@chromium.org](#) Version: Google Chrome 45.0.2429.0 <- ChromeOS on Chromebook Pixel (1st-gen)

Cc: [baffner@chromium.org](#) Google Chrome 44.0.2403.41 <- Android on Motorola Nexus 6

OS: ChromeOS, Android

What steps will reproduce the problem?

1. Open a new tab
2. Navigate to

```
data:text/html;charset=utf-8,<title>disappearing emoji</title><meta name="viewport" content="width=device-width,initial-scale=1" /><body><script>setInterval(function(){(document.body.style.zoom=1/devicePixelRatio),103}>"256dp><span style="font-family:sans-serif;font-size:256px" title="8">8</span><span style="font-family:sans-serif;font-size:257px" title="8">8</span><span style="font-family:sans-serif;font-size:258px" title="8">8</span></script></body>
```

Components: Internals>Skia

EstimatedDays: —

NextAction: —

OS: Linux, Android, Chrome, Mac

Pri: 2

Type: Bug

Add to list

Add a comment below

Screenshot 2015-06-16 at 13.37.52.png 36.1 KB | View Download

Chromium Bugs



A long list of references

- Usage of content languages for websites
- The faces of Microsoft
- No @font-face Syntax will ever be Bulletproof, Nor Should It Be.
- 字体漫谈
- Source Han Serif / Noto Serif CJK History & Development
- Chinese Fonts & Related Issues
- Variable fonts, a new kind of font for flexible design
- 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
- W3C Internationalization & Text Layout Requirements
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<http://tategaki.github.io/awards/>

Intro to CSS Grid

5 Basic Examples of how CSS Grid Works



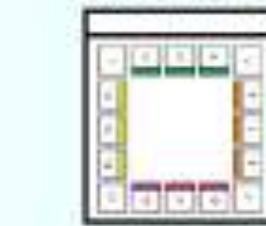
12 Variations of Card Layouts



Example of Nesting Flexbox and Grid



Monopoly on CSS Grid



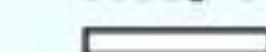
Study of Viewport



Study of Whitespace



Study of Verticality



The Experimental Layout Lab of Jen Simmons

REB Boston 2017
2016 demo

See Also: [18429](#)
Recent work by
Introducing them
with the Firefox
Grid Inspector
Tool

LAST UPDATED: NOV 2018

<http://labs.jensimmons.com/>

Thank you!



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