

# Rich dynamic design with modern CSS

By [Chen Hui Jing](#) / [@hj\\_chen](#)



Surname

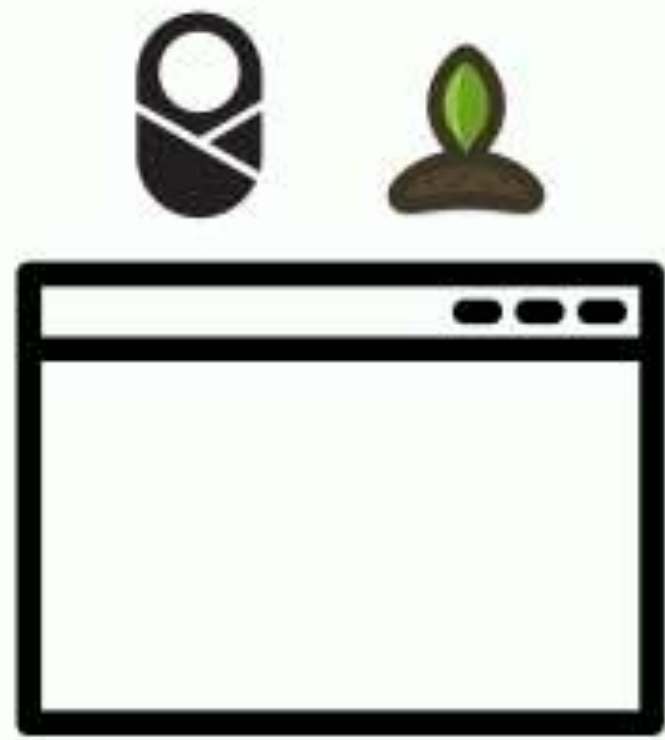
First name

陈	慧	晶
Chen	Hui	Jing



@hj\_chen





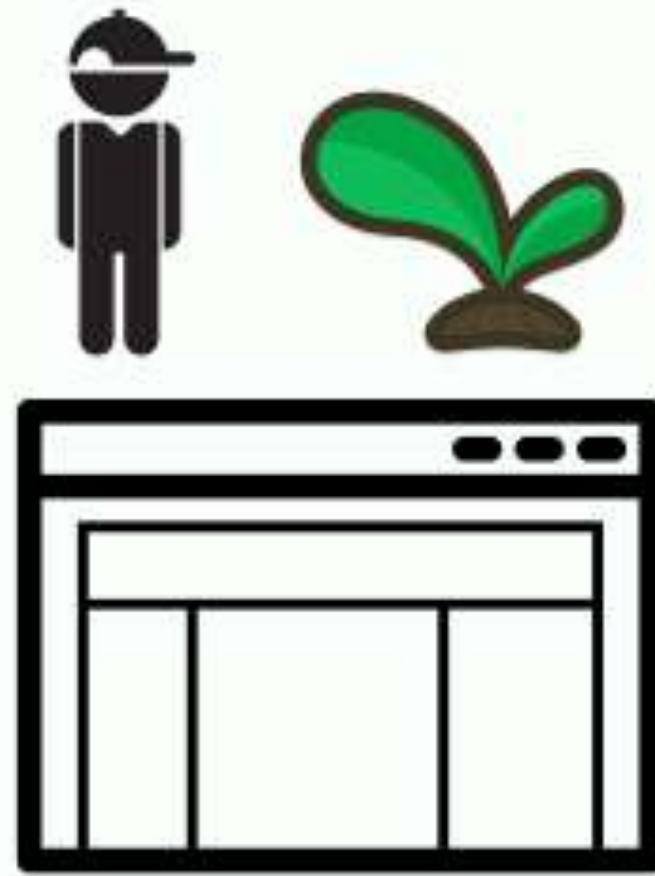
No layout



HTML Tables



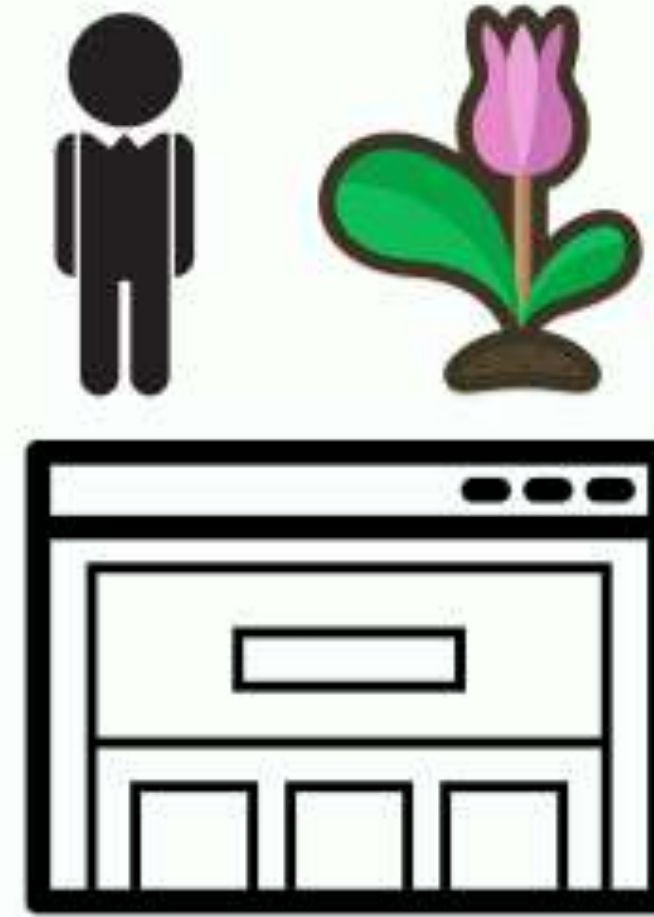
CSS yay!



CSS Floats



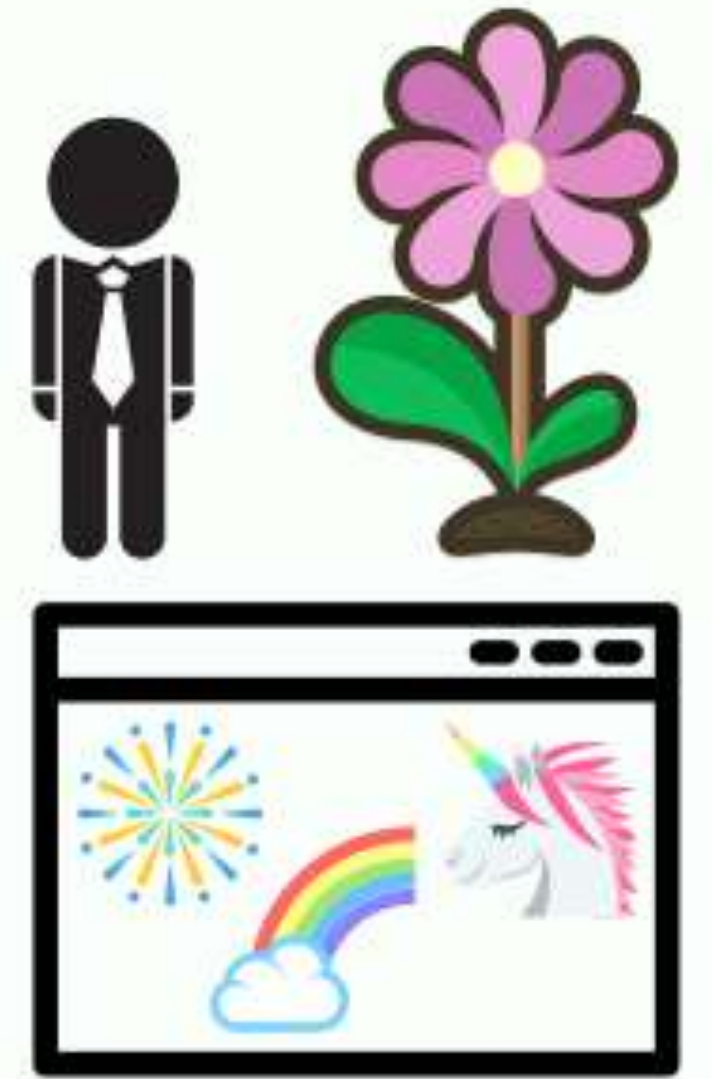
ZOMG, why so hard?!



Frameworks



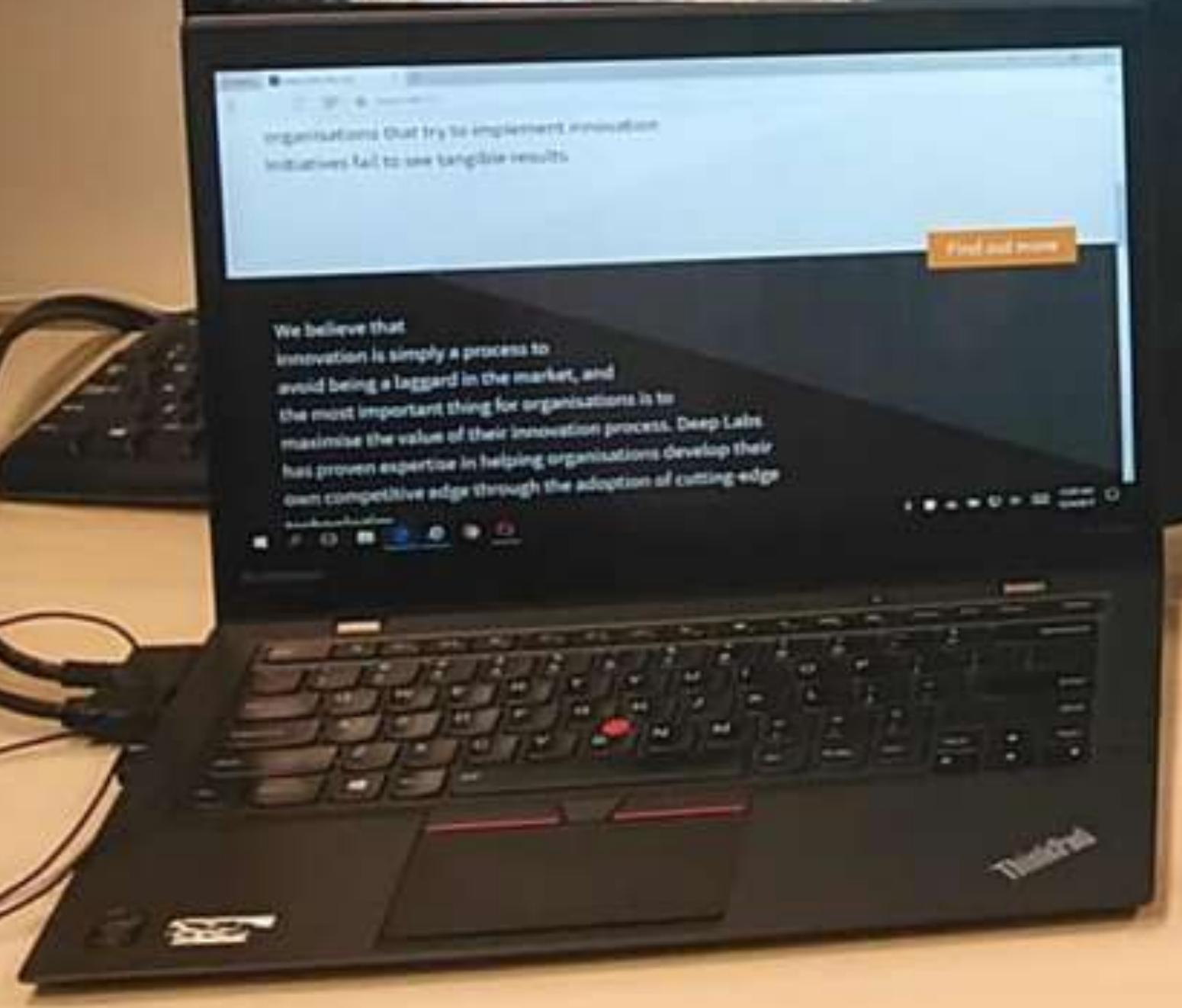
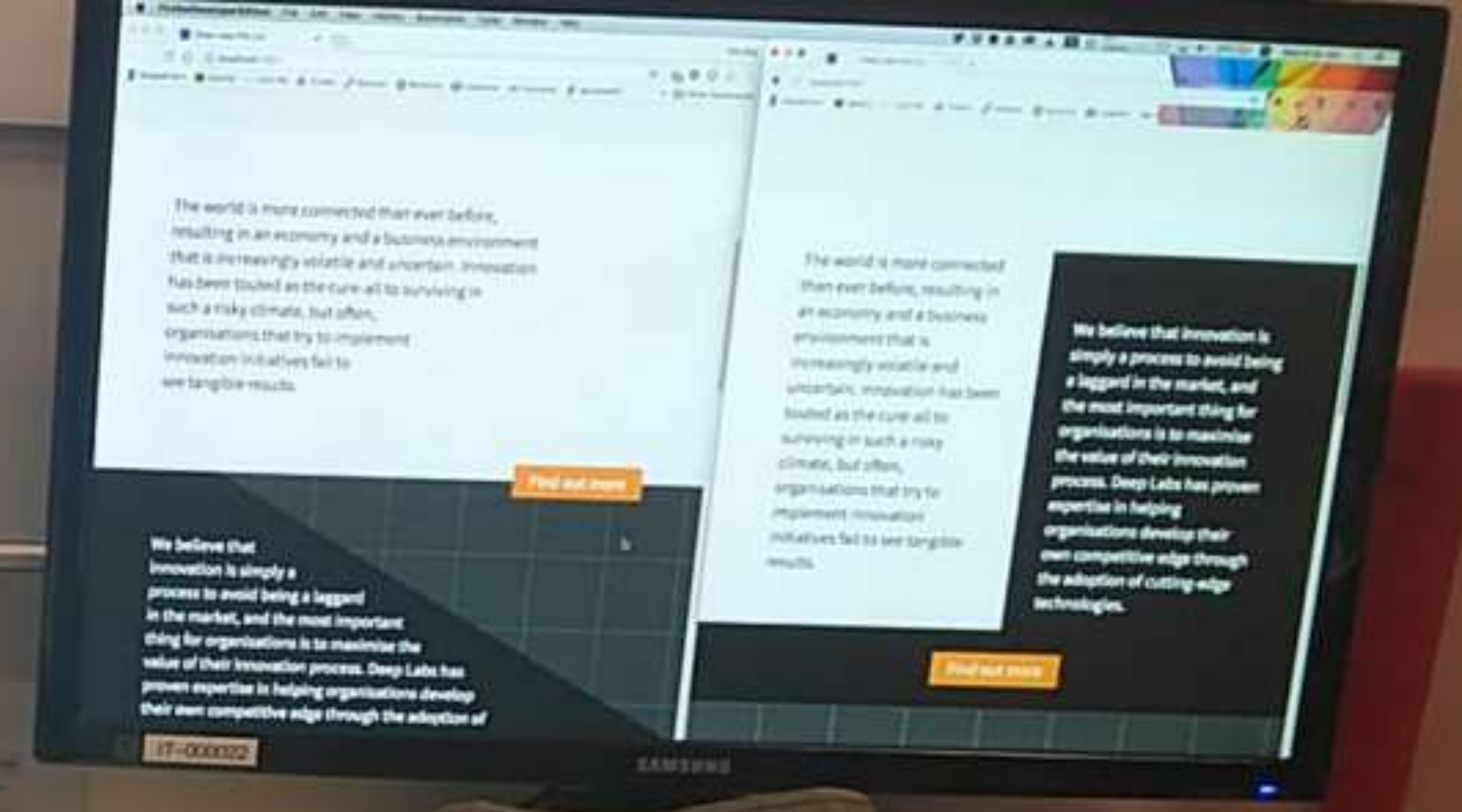
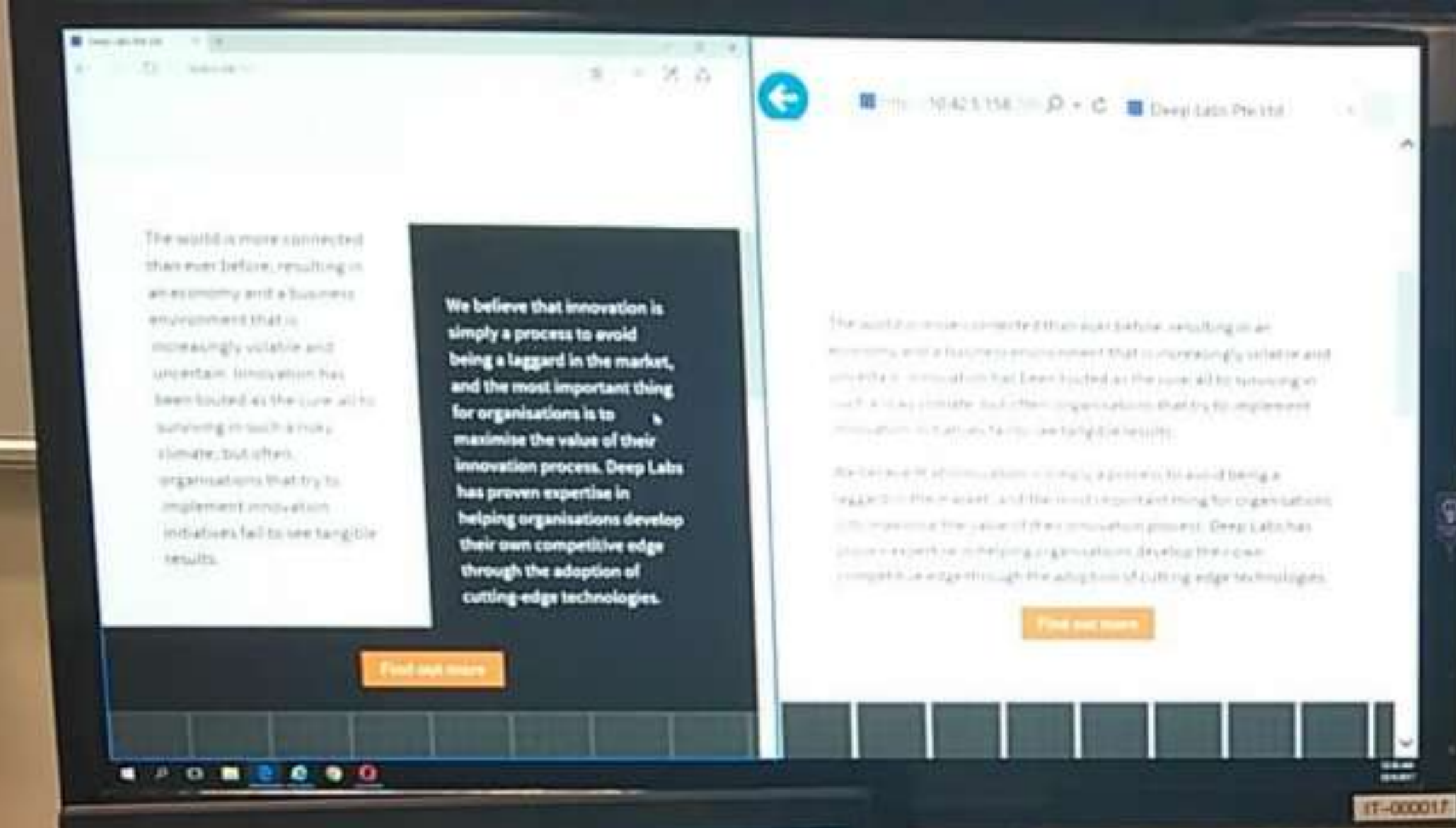
CSS awesome!



Grid and beyond

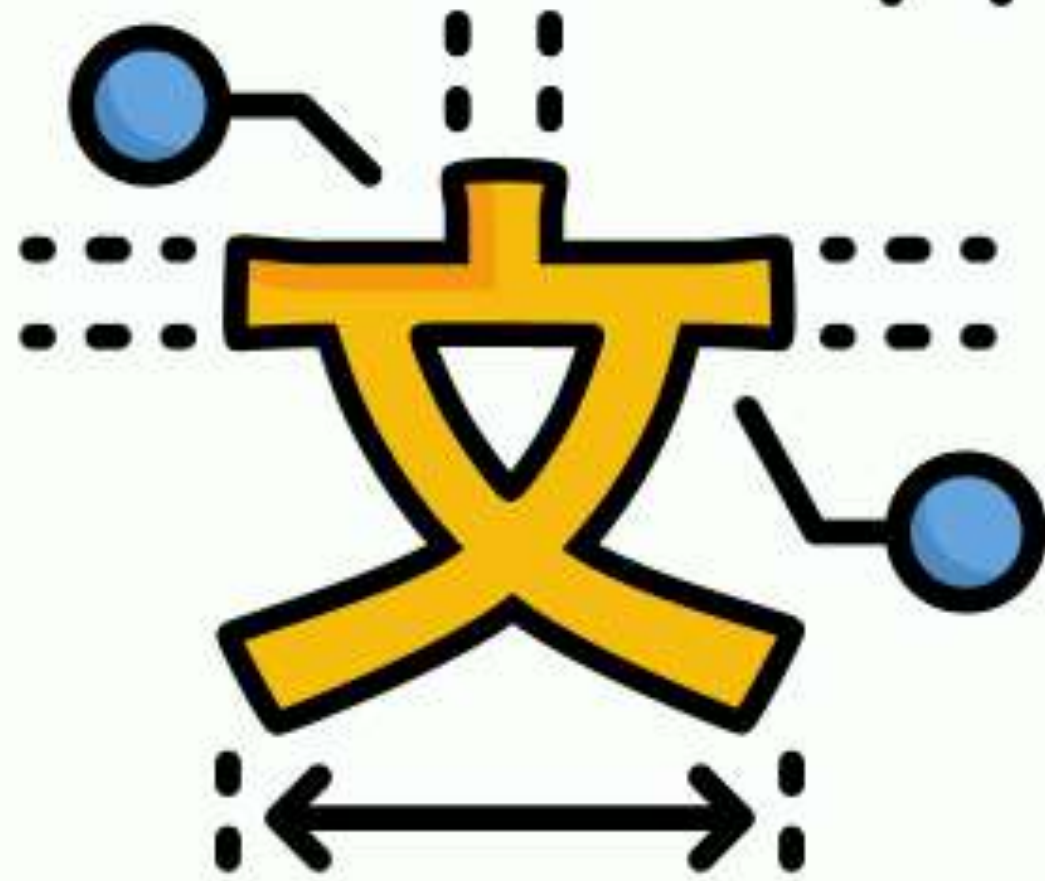
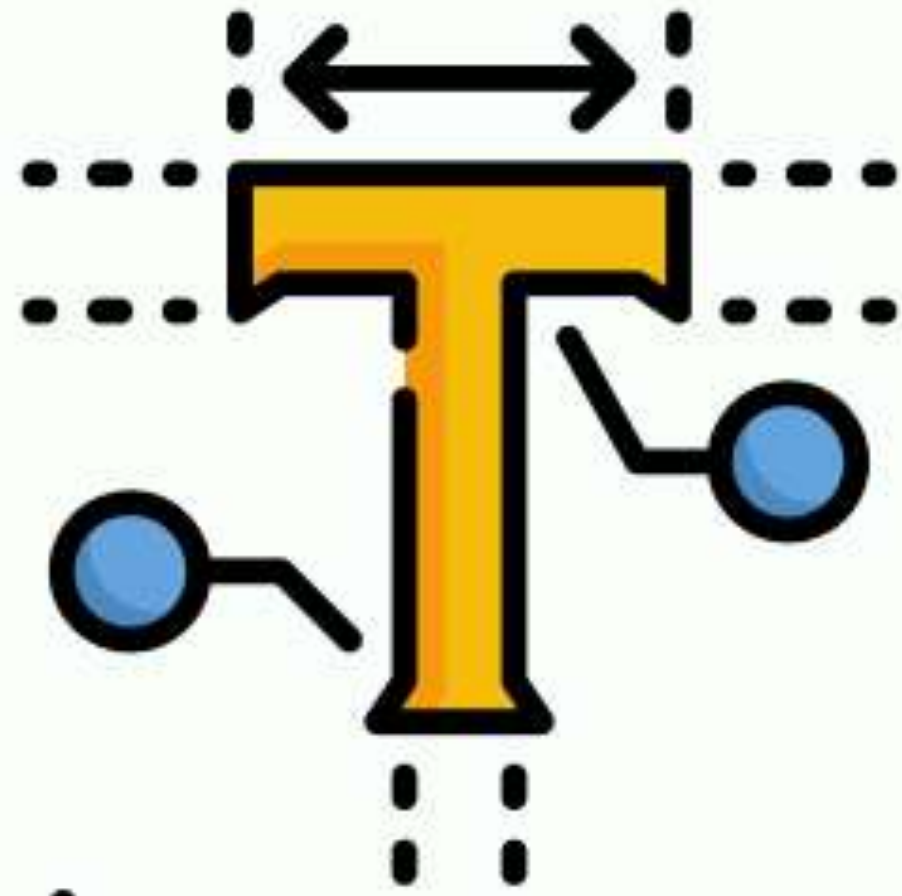








# Typesetting the web



*CSS to do typography*



*CSS to do layout*



# Font feature properties

font-kerning

AV Wa

No kerning

AV Wa

Kerning applied

font-variant-position

C<sub>10</sub> H<sub>16</sub> N<sub>5</sub> O<sub>13</sub> P<sub>3</sub>

C<sub>10</sub> H<sub>16</sub> N<sub>5</sub> O<sub>13</sub> P<sub>3</sub>

font-variant-position-ligatures

fi ▶ fi tʒ ▶ tʒ

WORDS ▶ WORDS

*labor of love* ▶ *labor of love*

font-variant-numeric

1st 17th 2a ▶ 1<sup>st</sup> 17<sup>th</sup> 2<sup>a</sup>

2 1/3 ▶ 2⅓ Lining Old-Style

4000 ▶ 4000 409,280 367,112 409,280 367,112

2 1/3 ▶ 2⅓ 155,068 171,792 155,068 171,792

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 ▶ incroyable

• ▶ ❁ ❂ ❃ 519 ▶ ⑤①⑨





**font-variant-east-asian**

麴町 ▶ 麴町

大学 ▶ 大學

欧文フォント ▶ 欧文フォント



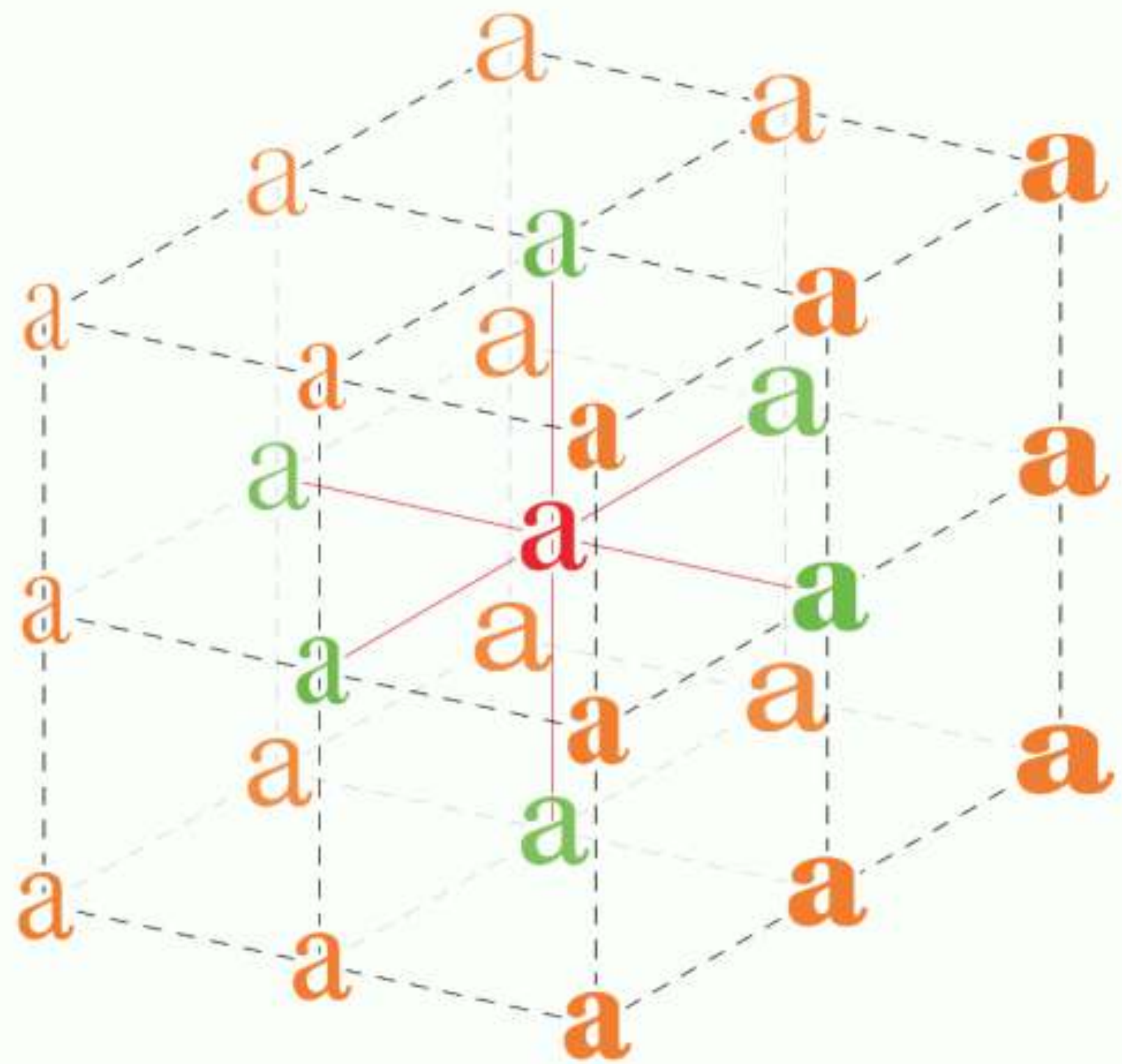
一个简体字可能对应多个繁体字，如简体字「发」，其相应的繁体字可能为「發」或「髮」；一个繁体汉字对应多个简体汉字的情况与前者相比数量极少但仍需注意，如繁体字「乾」可能对应简体字「干」或「乾」。繁简汉字的对应关系具体应由上下文决定。

```
.fvea p {  
  font-variant-east-asian: simplified;  
}
```





# Variable fonts



*Image credit: John Hudson*





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 727 ↻

Width 92.8 ↻

## FONT FEATURES

## COLOUR





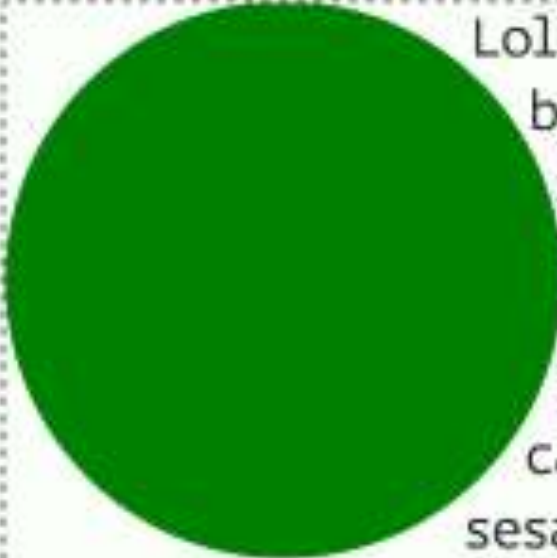


<https://codepen.io/mandymichael/pen/YYaWop>





# CSS shapes: Basic shapes



Lollipop marshmallow lemon drops jujubes muffin fruitcake bonbon. Muffin carrot cake bear claw sweet roll tiramisu chocolate jelly beans toffee sweet roll. Biscuit candy sweet sweet powder tart bear claw. Tiramisu jelly beans apple pie donut topping dessert lemon drops gummies halvah.

Dessert pie dragée fruitcake chocolate oat cake donut muffin. Chocolate lemon drops cake muffin. Bonbon lemon drops chocolate fruitcake jujubes chupa chups sesame snaps sesame snaps pudding. Pastry chocolate jelly beans cake wafer.



Donut jelly toffee macaroon macaroon. Cookie sesame snaps chupa chups. Lollipop jelly lollipop brownie pastry gummi bears.

Gummi bears apple pie chupa chups jelly pie halvah pastry sweet. Cookie dessert sweet roll icing cheesecake macaroon wafer cheesecake. Toffee lemon drops apple pie fruitcake sweet roll chocolate cake jelly bear claw jelly. Donut tiramisu chocolate cake sesame snaps marshmallow tootsie roll candy canes cheesecake cotton candy.



Cake powder croissant lollipop cotton candy tiramisu lollipop tiramisu. Cookie candy...

```
.shapes-cont1 .circle {
  shape-outside: circle();
  float: left;
  border-radius: 50%;
}

.shapes-cont1 .shape.ellipse {
  shape-outside: ellipse();
  width: 7.5em;
  float: left;
  border-radius: 50%;
}

.shapes-cont1 .inset {
  shape-outside: inset(0px round 2em);
  float: left;
  border-radius: 2em;
}
```





## CSS Shapes: Shape from image



Beyoncé Giselle Knowles-Carter is an American singer, songwriter, dancer and actress. Born and raised in Houston, Texas, Beyoncé performed in various singing and dancing competitions as a child. She rose to fame in the late 1990s as lead singer of the R&B girl-group Destiny's Child.

```
.shapes-cont2 img {  
  shape-image-threshold: .5;  
  shape-margin: 0.1em;  
  shape-outside: url('img/beyonce.png');  
  float: left;  
}
```





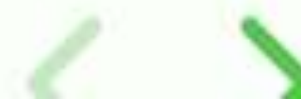
# Alice in Wonderland

Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no pictures or conversations in it, 'and what is the use of a book,' thought Alice 'without pictures or conversation?'

So she was considering in her own mind whether the pleasure of making a daisy-chain would be worth the trouble of getting up and picking the daisies, when



<http://adobe-webplatform.github.io/Demo-for-Alice-s-Adventures-in-Wonderland/>





# Support for writing-mode



Aug 2001\*



Dec 2010



Jul 2011



Jul 2013



Jul 2015



Sep 2015

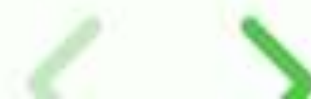




# writing-mode property

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

从1987到现在

*mixed*

从1987到现在

*upright*

从1987到现在

*sideways*





## **text-combine-upright property**

民國107年5月25日

*none*

民國  
107  
年  
5  
月  
25  
日

*all*

民國107年5月25日

*digits <integer>\**





古巴  
Cuba

愛沙尼亞共和國  
Estonia

列支敦斯登  
Liechtenstein





联赛 (MNL) 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MNL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、邱嫫嫫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，邱嫫嫫就轰进三分球；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，邱嫫嫫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，邱嫫嫫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，而在这一方面我们生夫界中偷了%。」



# 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

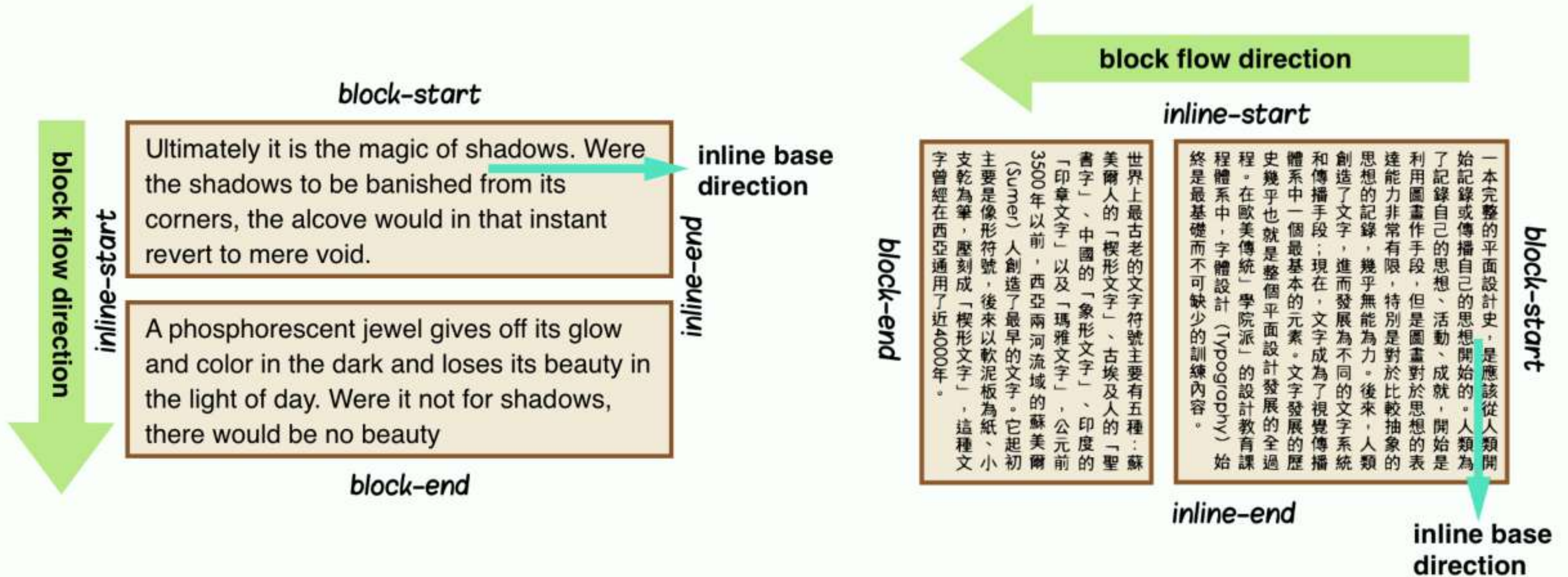


古代中亞文明的黑石鴨形，是由烏爾王奉獻給南那神的供品，公元前3000年左右





# CSS logical properties

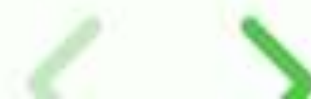




# Flex directions

1一	2二	3三	4四	5五	6六	7七	8八	9九	10十
11十一	12十二	13十三	14十四	15十五	16十六	17十七	18十八	19十九	20二十

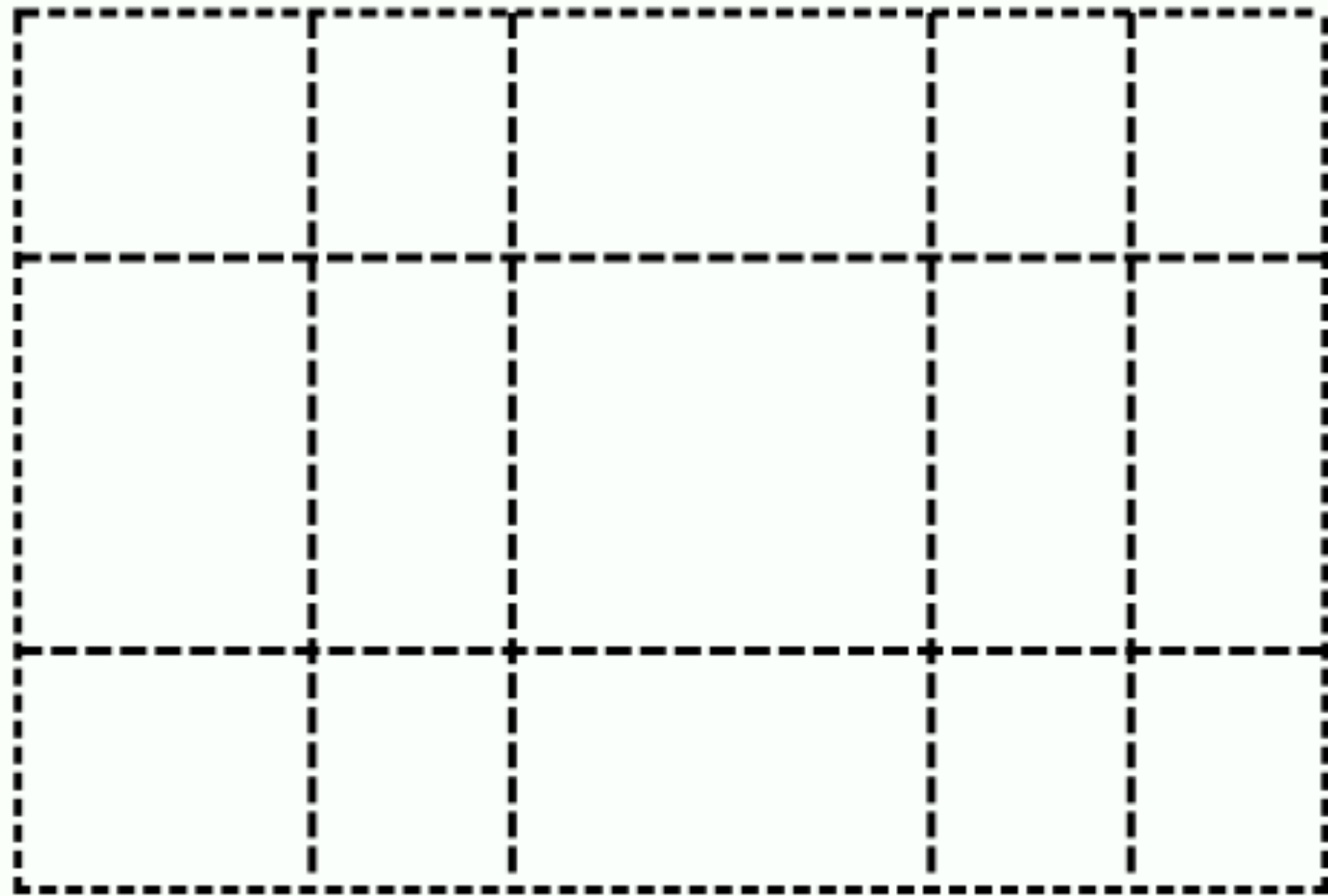
```
.directions .wrapper {  
  display: flex;  
  flex-wrap: wrap;  
  writing-mode: horizontal-tb;  
  flex-direction: row;  
}  
  
.directions .box {  
  height: 6em;  
  width: 6em;  
  border: 1px solid;  
}
```



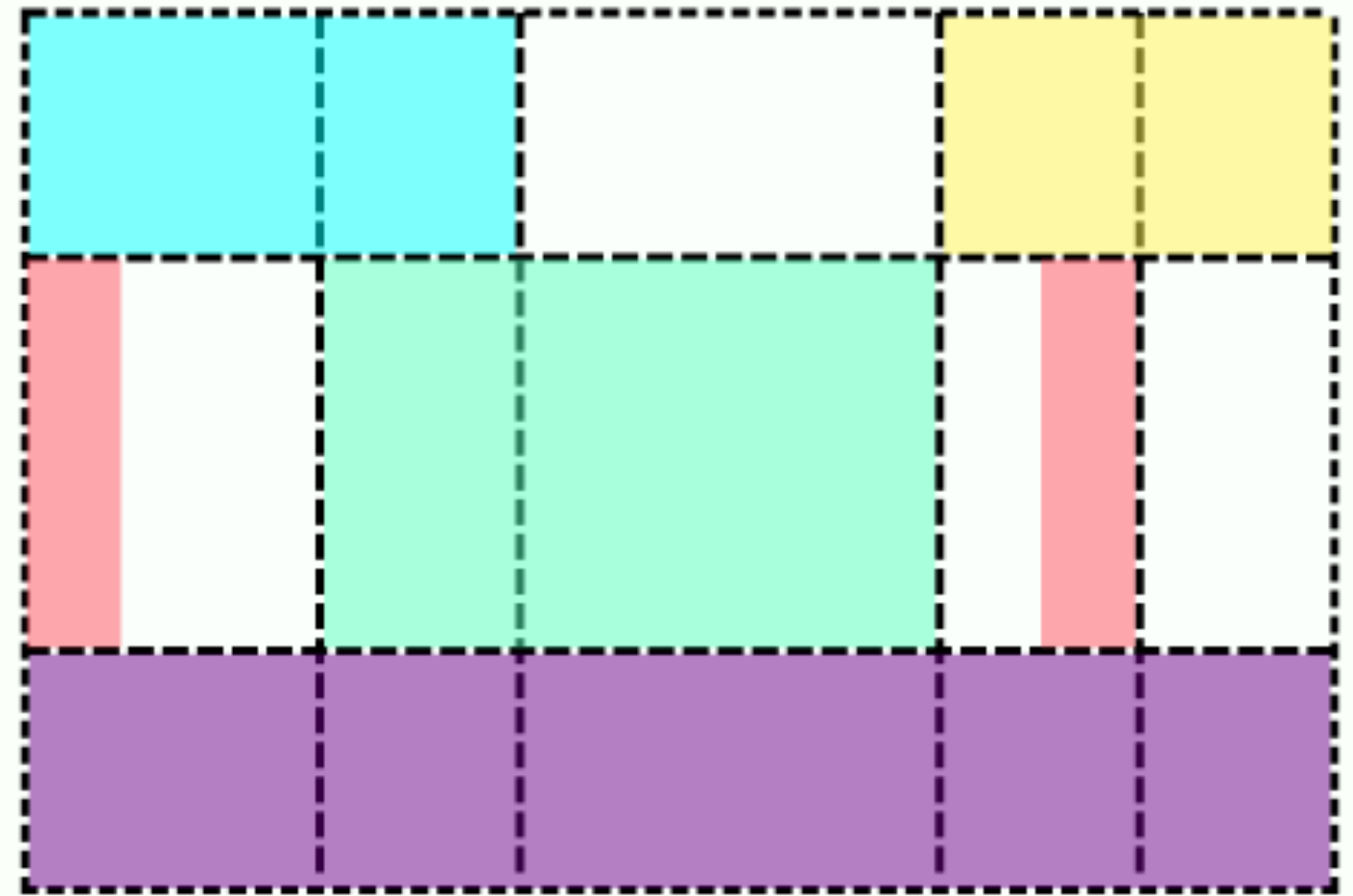


# CSS grid for ease of placement

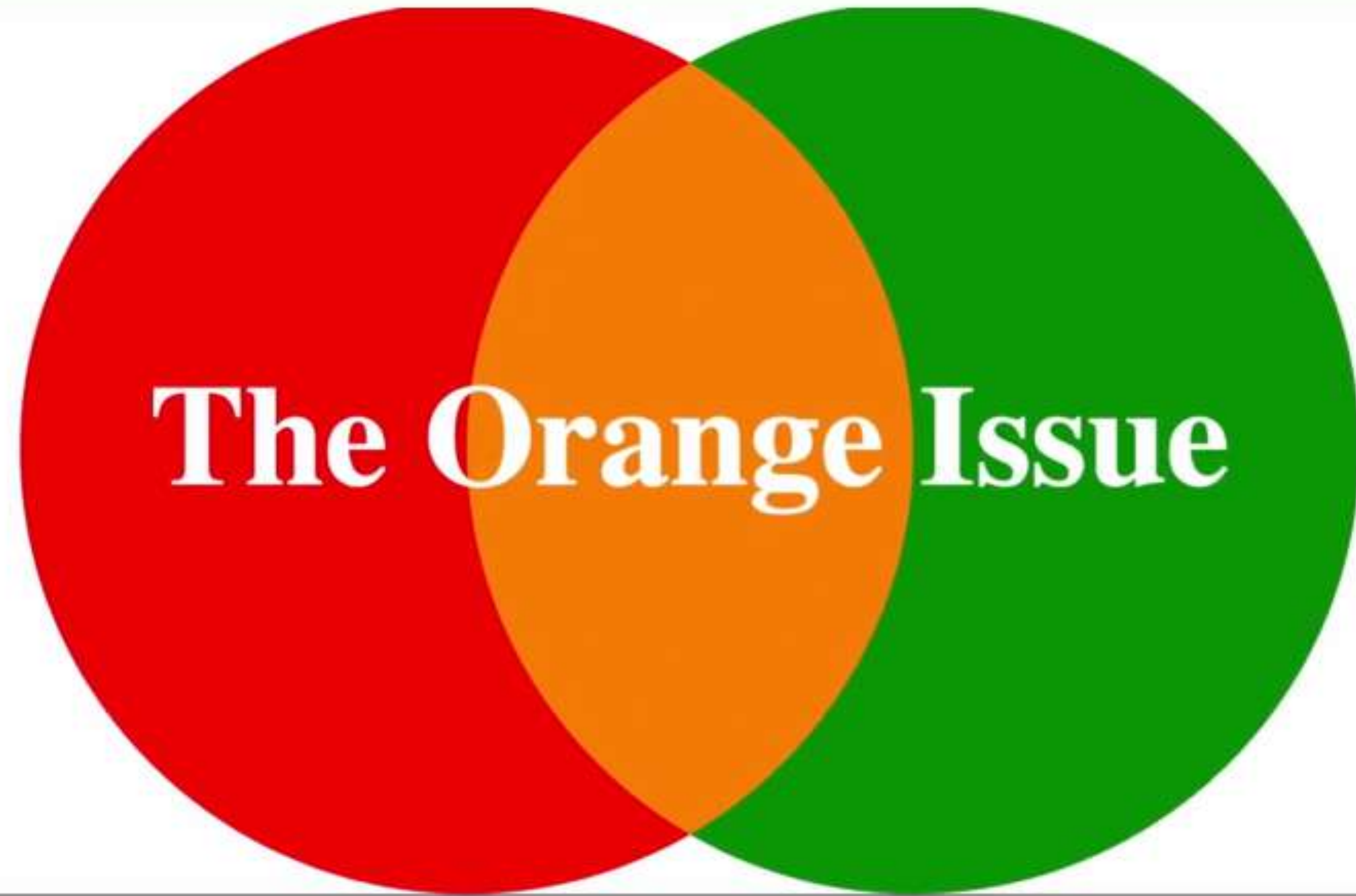
Define your grid.



Place items in the grid.



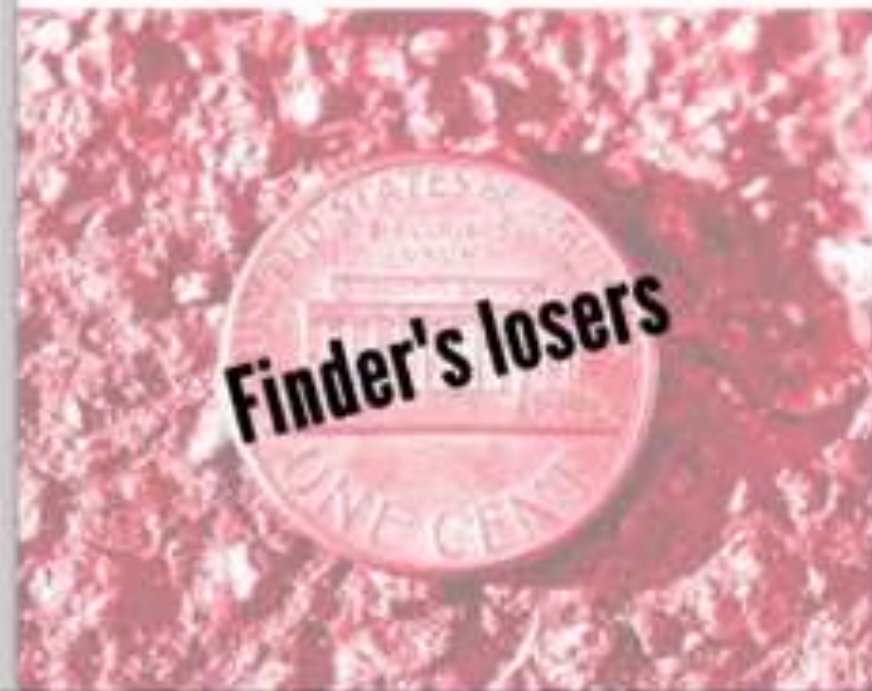
## Overlap elements





# Vertical spacing

**Contents**





# Leveraging media queries

## Level 3

- width
- height
- orientation
- aspect-ratio
- resolution
- scan
- grid
- color
- color-index
- monochrome
- device-width\*
- device-height\*
- device-aspect-ratio\*

## Level 4

- update
- overflow-block
- overflow-inline
- color-gamut
- pointer
- hover
- any-pointer
- any-hover

## Level 5

- light-level
- environment-blending
- scripting
- inverted-colors
- prefers-reduced-motion
- prefers-reduced-transparency
- prefers-contrast
- prefers-color-scheme





# Responsive images



```
<picture>  
  <source media="(min-width: 960px)" srcset="ticker-  
tape-large.jpg">  
  <source media="(min-width: 575px)" srcset="ticker-  
tape-medium.jpg">  
    
</picture>
```





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


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<https://penang-hokkien.gitlab.io>





Nightly File Edit View History Bookmarks Tools Window Help 66°C 1101rpm 13 100% Mon 10:29 AM

Braun HiFi posters web-ified


localhost:2314/#steuergerät

# Braun HiFi Steuergerät audio 300

In der modernen Aufnahmetechnik ist keine Mühe zu groß, kein Aufwand zu kostspielig, um auch allerletzte Feinheiten einer Interpretation zu erhalten.

Demgegenüber gibt es aber nur wenige HiFi Geräte, die es fertigbringen, den ganzen Nuancenreichtum wieder vollends hörbar zu machen.

Ein Gerät mit diesen Fähigkeiten ist das neue "audio 300", eine Kompaktanlage mit ungewöhnlicher technischer Ausrüstung und einem formalen Konzept, das Braun höchste internationale Auszeichnungen eintrug.



**BRAUN**

<https://codepen.io/huijing/pen/xPEjWb>







# Tycho

---

Tycho is an American ambient music project led by Scott Hansen as primary composer, songwriter and producer. Hailing from San Francisco, California, he is known as ISO50 for his photographic and design works. His music is a combination of downtempo vintage-style synthesizers and ambient melodies.

10.2.2010 TORONTO  
THE DRAKE HOTEL

TOUR DATES

---

READ MORE

<https://codepen.io/huijing/pen/QQGBjY>



# Thank you!



<https://www.chenhuijing.com>



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Font used is [Magnetic Pro](#), by MoTyFo