



网 格 的 四 面 ， 方

Surname
First name

陈	慧	晶
Chen	Hui	Jing



@hj_chen



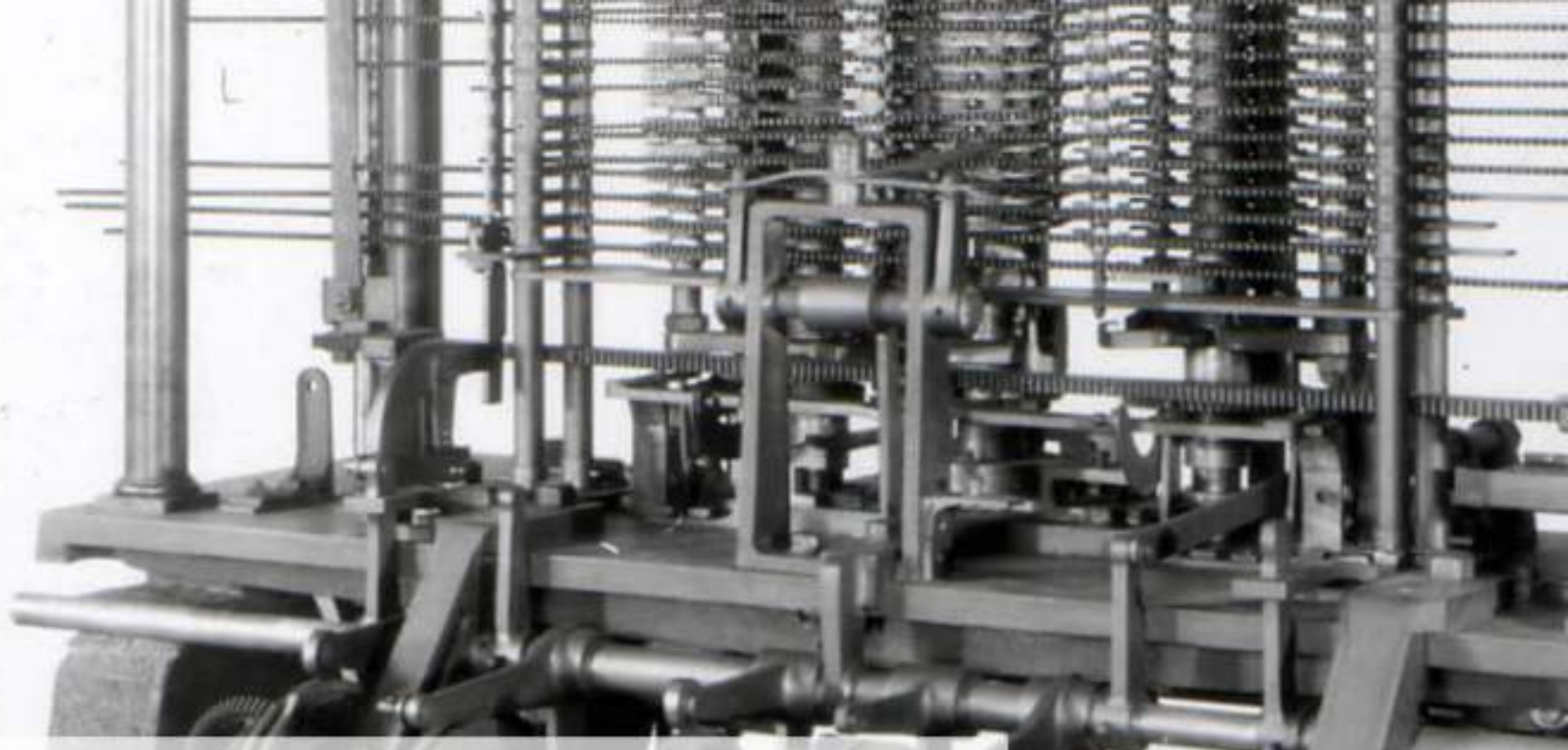
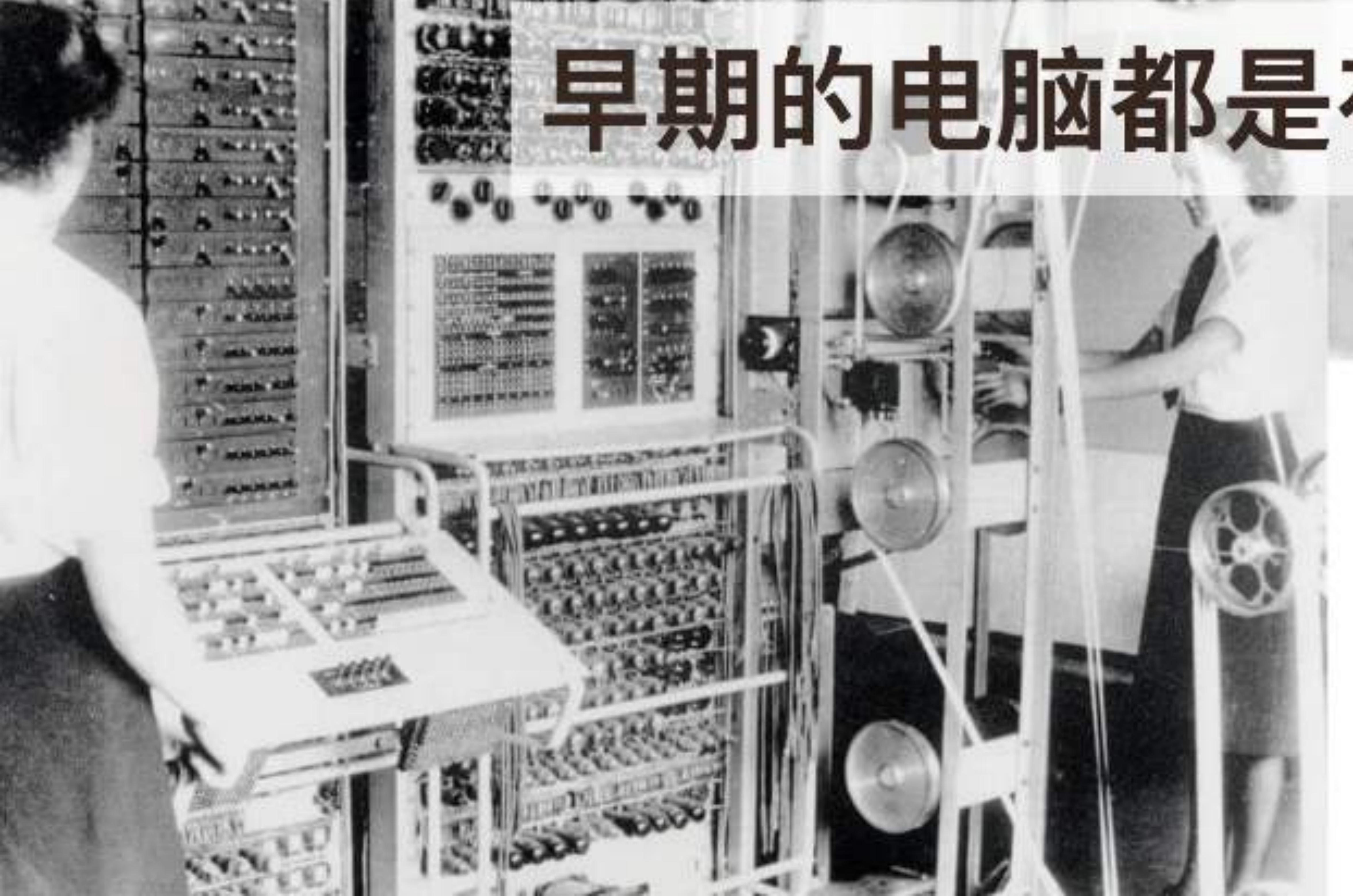


Developer Advocate

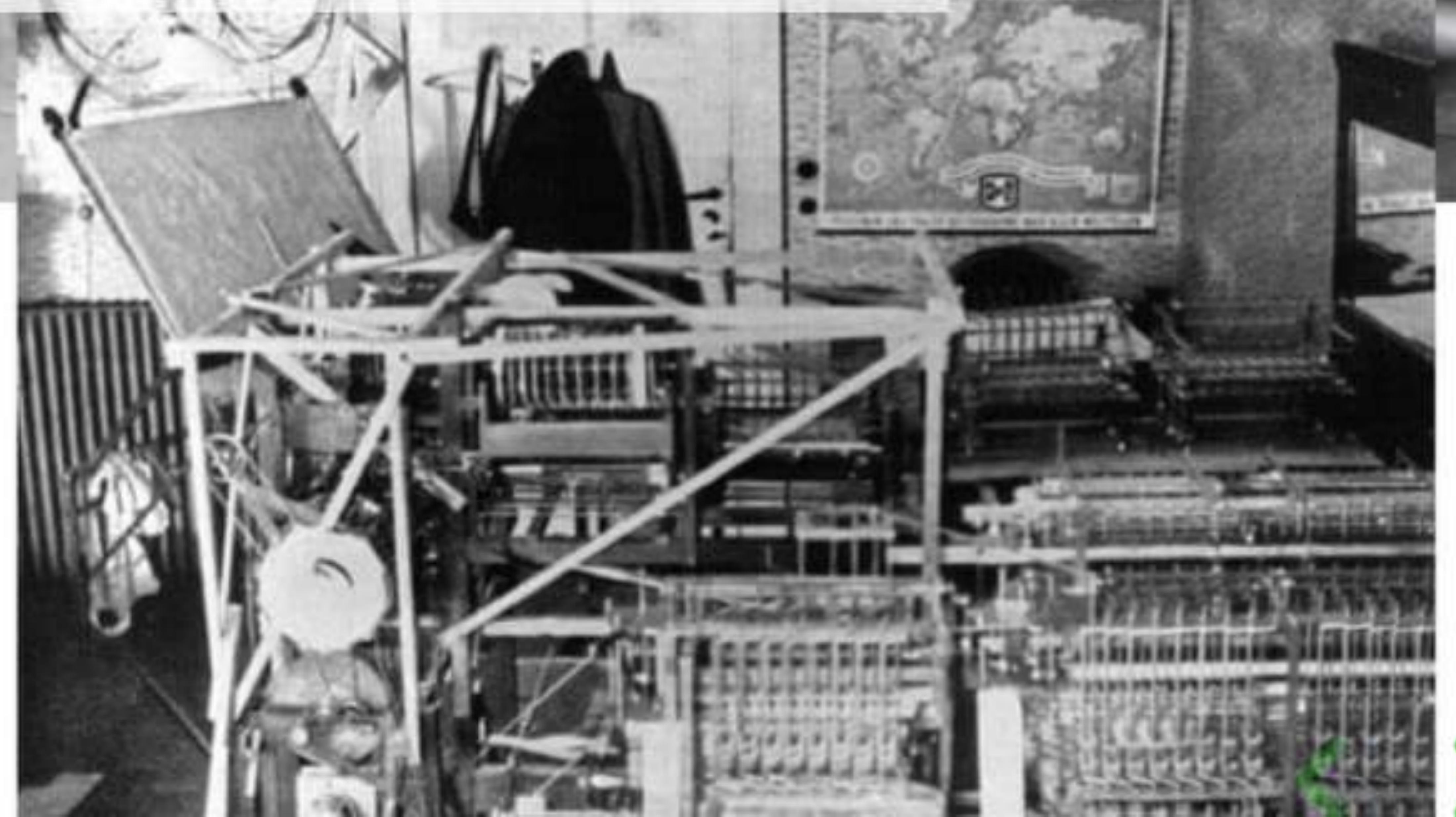
nexmo®

The Vonage API Platform





早期的电脑都是在欧美国家研发的



Document Title: NCSA Mosaic Home Page
 Document URL: http://www.ncsa.uiuc.edu/SDG/Software/Mosaic/NCSAMosaicHome.html



Welcome to NCSA Mosaic, an Internet information browser and World Mosaic was developed at the National Center for Supercomputing Applications University of Illinois in Urbana-Champaign. NCSA Mosaic software is owned by the Board of Trustees of the University of Illinois (UI), and owned by the UI.

Jan '97

The Software Development Group at NCSA has worked on NCSA Mosaic for several years now, and we've learned a lot in the process. We are honored that we were able to contribute this technology to the masses and appreciated all the support and encouragement we received in return. However, the time has come for us to concentrate our efforts on other projects.

chen -- lynx https://www.chenhuijing.com -- 77x32
 Chen Hui Jing (pl of 4)

早期的浏览器都注重西文文字的排版

ViolaWWW Hypermedia Browser



ViolaWorldWideWeb Hypermedia Browser

1993.3.7

ViolaWWW implements an X-Windows browser client to the World-Wide Web. This browser has the basic navigation mechanisms of clickable-hot-words, history (previous/back/next document traversal), and book-mark lists. It has keyword search entry, and can do page cloning (multiple windows). There exists a simple printer and a HTML source viewer (not editor).

ViolaWWW is built using the Viola interactive media tool(kit).

See also: [ToDo list](#)

Thanks for taking the time to do bug reports, and suggestions!

Status

April 1993

Page movement hierarchy NISC
 Johdatus WWW:hen
 Mikä on WWW?
 Info

World Wide Web on työkalushjelmistö, joka avulla on mahdollista toteuttaa seikkaan tietosaikeutta saatavilla olevia tietolaitteita.

WWW:n on kehittänyt CERNissä, Geneveessä Tim Berners Leen johtama ryhmä hankkioitustyöskentävän alkuperäisellä.

Mihin tarvitset WWW:...

WWW:n avulla voit hakea minkempa millista tietoa tahansa. WWW sisältää myös tietoja tieteen ja teknologian uusimista aiheista.

Tiedon etsintä ei ole yhtä helppoa kuin esimerkiksi kirjan luku.

InfoDialog_popup

ERWISE

中国第五届CSS大会 03.30 / 深圳

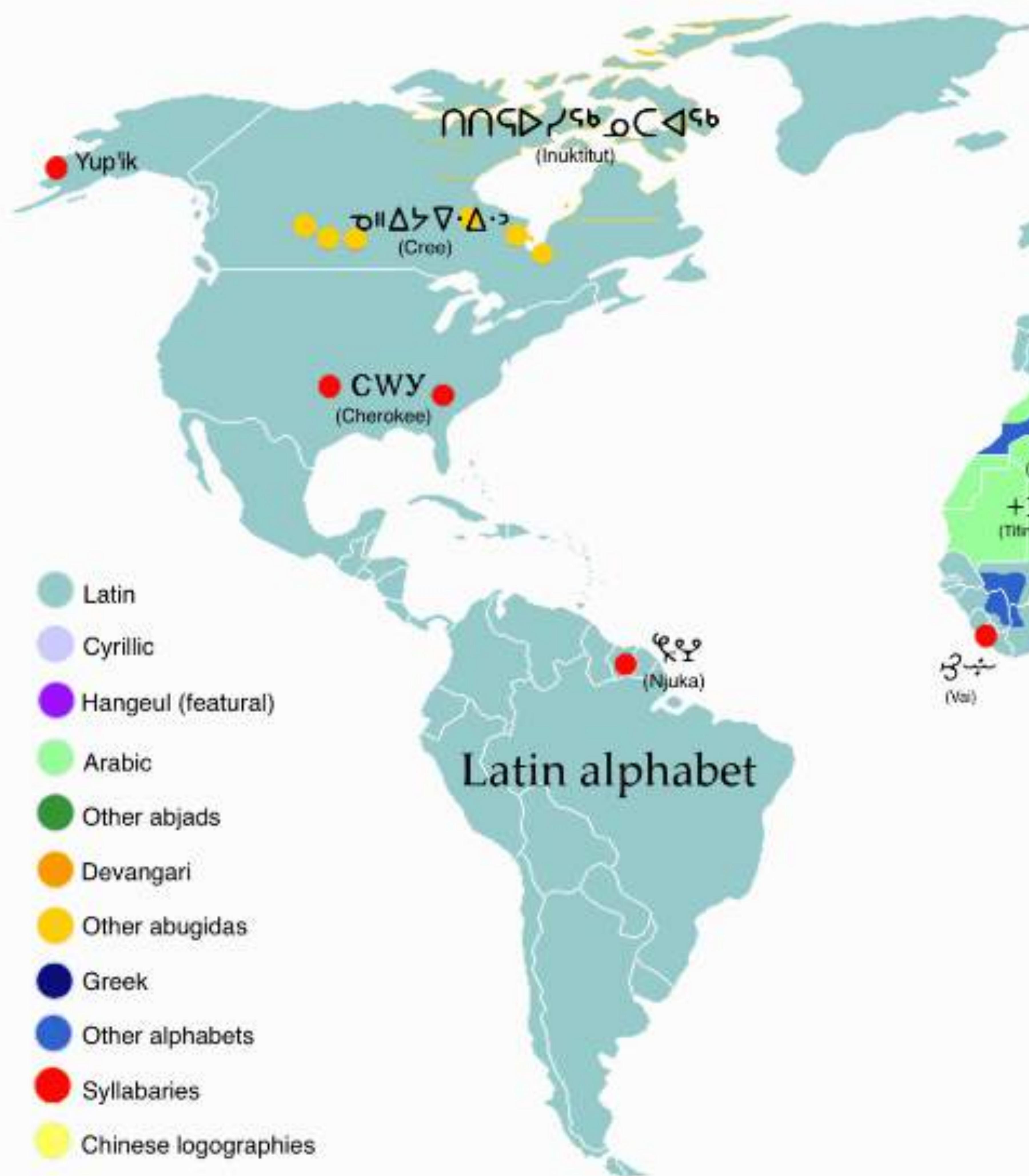
中国第五届CSS开发者大会于2019年03月30日在深圳举办。由W3C、w3c-tech、主办。本次大会我们将邀请行业内知名讲师，与大家共聚深圳，畅聊CSS。

立即抢票[31] 关注“前端圈”公众号，个人中心查看门票

扫描二维码抢票

演讲嘉宾 与大牛一起探讨

陈慧晶 知名CSS专家、Hexmo开发大使
 大漠 知名CSS专家、阿里巴巴前端技术专家
 齐川 资深前端工程师、css-doodle作者。欣赏他的创意[10]



运用中文字型的提示（一）

- 中文字型通常有上万个字符，系统字型依然比较实际
- 市场上的webfont服务：[JustFont](#)、[有字库](#)、[文鼎云字库](#)、[華康字型](#)
- 在@font-face规矩里先声明西文字型
- 用自定义字型，建议做一些子集化：[字蛛](#)、[FontPrep](#)、[Font Squirrel](#)

运用中文字型的提示（二）

- 注意系统字型是否用对了，SC vs TC
- 跟西文混排时要调整文本字号
- 别忘了调好行距，浏览器默认值太小了
- 在文本设尽量调整头尾对齐，可以用CSS调
- 把叙体的默认值换成normal
- 段落区隔可以设定在 0.5em – 1em 之间

致軒悍成風

壞茫茫人心殊觀未免因

授擾本府公事即

載一方輿郵更長沙不溼

中風俗稍變頗益

須蠟屐誰暇膏車點存處

指揮下本府管勾

六鸞羽客窺倒景拊掌崎

右奉

風冷攀緣汗浹應歎苦區

依奏劄付永興軍准

付與好在青雲岐路願

歌頭登多景樓

赤松辭萬戶鬻花猶是主

卷江山圖画應禽龍魚悲嘯不暇顧

點絳唇葛守坐上出點

巧欺客分冷入衣裘忽醒然成感

報禽風光滿傾瓊液休思贖

可憐報國無路空白一分頭都把平

棠底太守新詞解釋無窮

做如今顚願歲晚若爲謀此意仗江

軍士里中呈

一切規約依照國民學校暨

開設地址

則及本縣國民學校中心國

營業種類

規程暨教員服務細則之規

經理籍貫

銀伍百斤元全年十二個月計

與被保證人之關係

委山銀少司及學校校長徐鷹

通訊書

三十八年后。

汪淼觉得，来找他的这四个人是一个奇怪的组合：两名警察和两名军人。如果那两个军人是武警还算正常，但这是两名陆军军官。

汪淼第一眼就对来找他的警察没有好感。其实那名穿警服的年轻人还行，举止很有礼貌。但那位便衣就让人讨厌了。这人长得五大三粗，一脸横肉，穿着件脏兮兮的皮夹克，浑身烟味，说话粗声大嗓，是最令汪淼反感的那类人。

「汪淼？」那人问，直呼其名令汪淼很不舒服。况且那人同时还在点烟，头都不抬一下。不等汪淼回答，他就向旁边那位年轻人示意了一下，后者向汪淼出示了警官证，他点完烟后就直接向屋里闯。

「请不要在我家里抽烟。」汪淼拦住了他。

三十八年后。

汪淼觉得，来找他的这四个人是一个奇怪的组合：两名警察和两名军人。如果那两个军人是武警还算正常，但这是两名陆军军官。

汪淼第一眼就对来找他的警察没有好感。其实那名穿警服的年轻人还行，举止很有礼貌。但那位便衣就让人讨厌了。这人长得五大三粗，一脸横肉，穿着件脏兮兮的皮夹克，浑身烟味，说话粗声大嗓，是最令汪淼反感的那类人。

「汪淼？」那人问，直呼其名令汪淼很不舒服。况且那人同时还在点烟，头都不抬一下。不等汪淼回答，他就向旁边那位年轻人示意了一下，后者向汪淼出示了警官证，他点完烟后就直接向屋里闯。

「请不要在我家里抽烟。」汪淼拦住了他。

「哦，对不起，汪教授。这是我们史强队长。」年轻警官微笑着说，同时对姓史的使了个眼色。

网络书写方向

Unicode双向算法（中文翻译）

Unicode竖排形式

CSS书写模式Level 3

CSS书写模式Level 4



网页汉字竖排

在宇宙间，一个技术文明等级的重要标志，是它能够控制和使用的微观维度。对于基本粒子的一线使用，从我们那些长毛裸体的祖先在山洞中生起篝火时就开始了，对化学反应的控制，就是在一维层次上操控微观粒子。当然，这种控制也是从低级到高级，从篝火到后来的蒸汽机，再到后来的发电机。现在，人类对微观粒子一维控制的水平已达到了顶峰，有了计算机，也有了你们的纳米材料。但这一切，都局限于对微观维度的一维控制，在宇宙间一个更高级的文明看来，篝火和计算、纳米材料等等是没有本质区别的，同属于一个层次，这也是他们仍将人类看成虫子的原因。

```
.wm-cont1 {  
    writing-mode: vertical-rl;  
}
```

网页西文竖排

Halt and Catch Fire

“Computers aren’t the thing. They’re the thing that gets us to the thing.”

“How did we all get here today? The choices we made, the sheer force of our will, something like that? Here’s another answer... the winds of fate. Random coincidence, some unseen hand just pushing us along. Destiny.”

What are you searching for?

```
.wm-cont2 .vert-rl {  
    writing-mode: vertical-rl;  
    color: #f48136;  
}  
  
.wm-cont2 .vert-lr {  
    writing-mode: vertical-lr;  
    color: #f9d056;  
}  
  
.wm-cont2 .upright {  
    text-orientation: ;  
    font-size: ;  
}
```





PENGUIN BOOKS



RICHARD SENNETT THE CRAFTSMAN

'Elegant ... an open letter to us all, reminding us that we can shape and craft our own lives' NEW STATESMAN

RICHARD SENNETT THE CRAFTSMAN

RICHARD SENNETT ♦ THE CRAFTSMAN ♦ 7H

Richard Sennett ● ● ● The Craftsman ● ● ●

RICHARD SENNETT ≡ THE CRAFTSMAN N

Richard Sennett ▲ ▲ The Craftsman ▲ ▲

RICHARD SENNETT THE CRAFTSMAN HB

RICHARD SENNETT THE CRAFTSMAN



team **Layout**

CSS transforms

Defines a set of CSS properties that affect the visual rendering of elements to which those properties are applied

Lets you do photoshop effects in your browser

Creating CSS pencils

(Transforms edition)

1. Mark-up
2. Visual styles
3. Layout styles



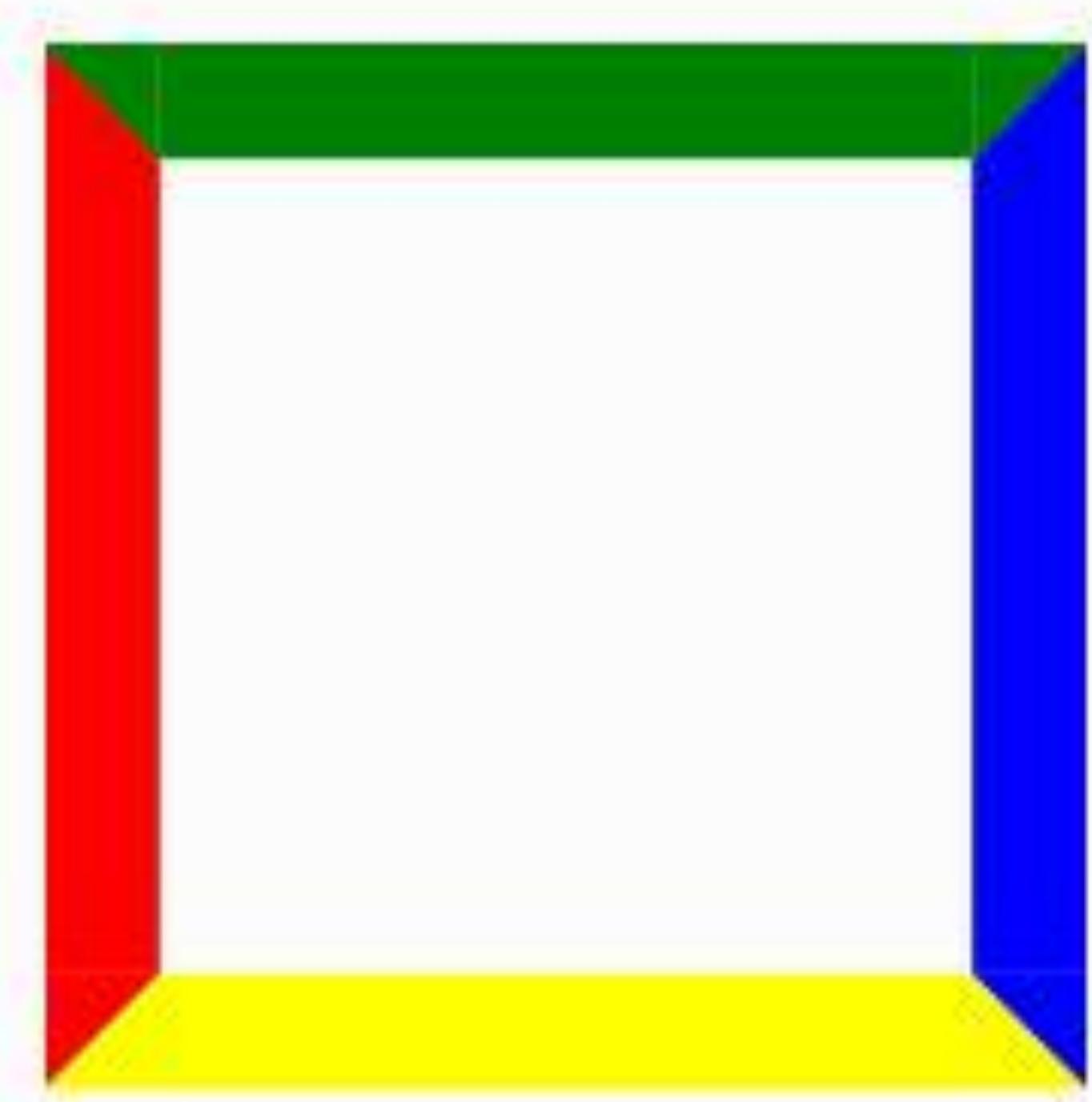
1. Mark-up

- This is a pencil
- A CSS only pencil
- Because why not

```
<ul>
  <li>
    <p>This is a pencil</p>
  </li>
  <li>
    <p>A CSS only pencil</p>
  </li>
  <li>
    <p>Because why not</p>
  </li>
</ul>
```



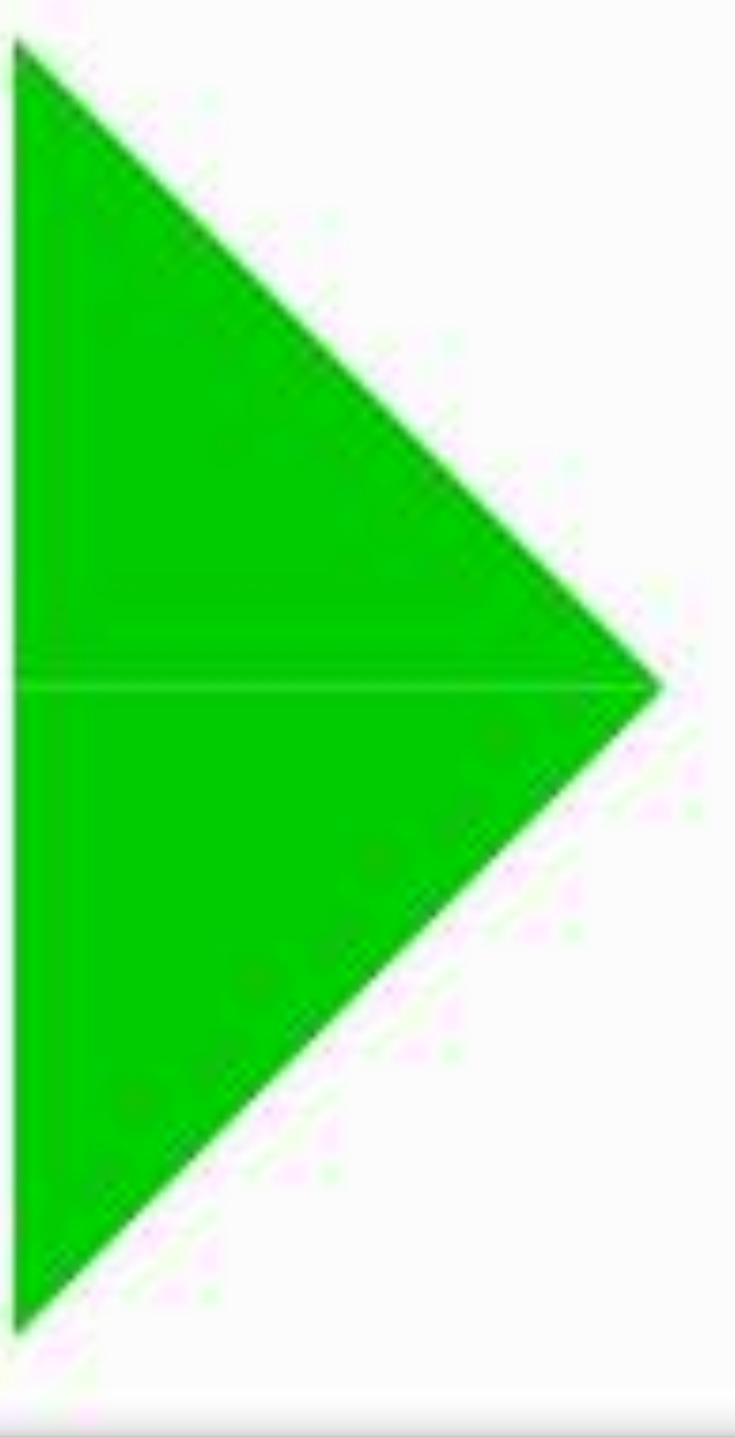
纯CSS的三角形



纯CSS的三角形



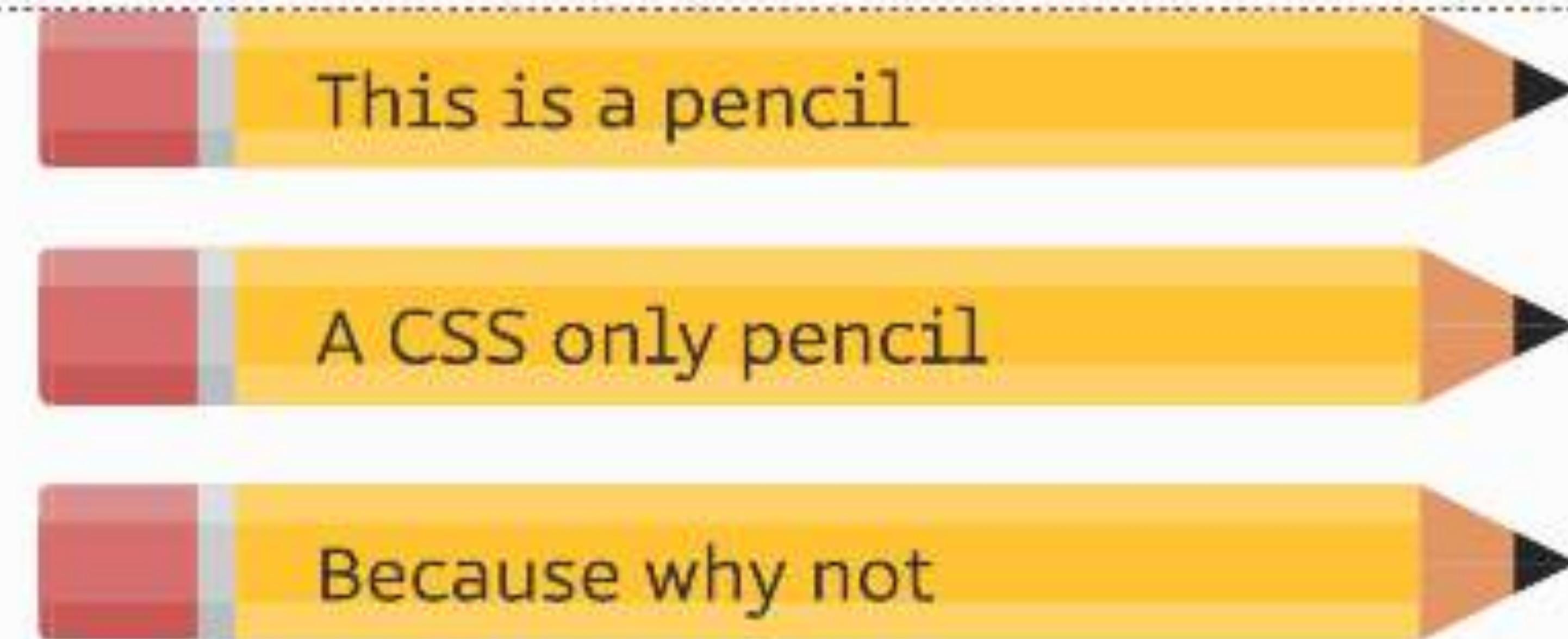
纯CSS的三角形



```
.triangle {  
    border-top: 18.75vmin solid transparent;  
    border-bottom: 18.75vmin solid transparent;  
    border-left: 18.75vmin solid #1e292f;  
}
```



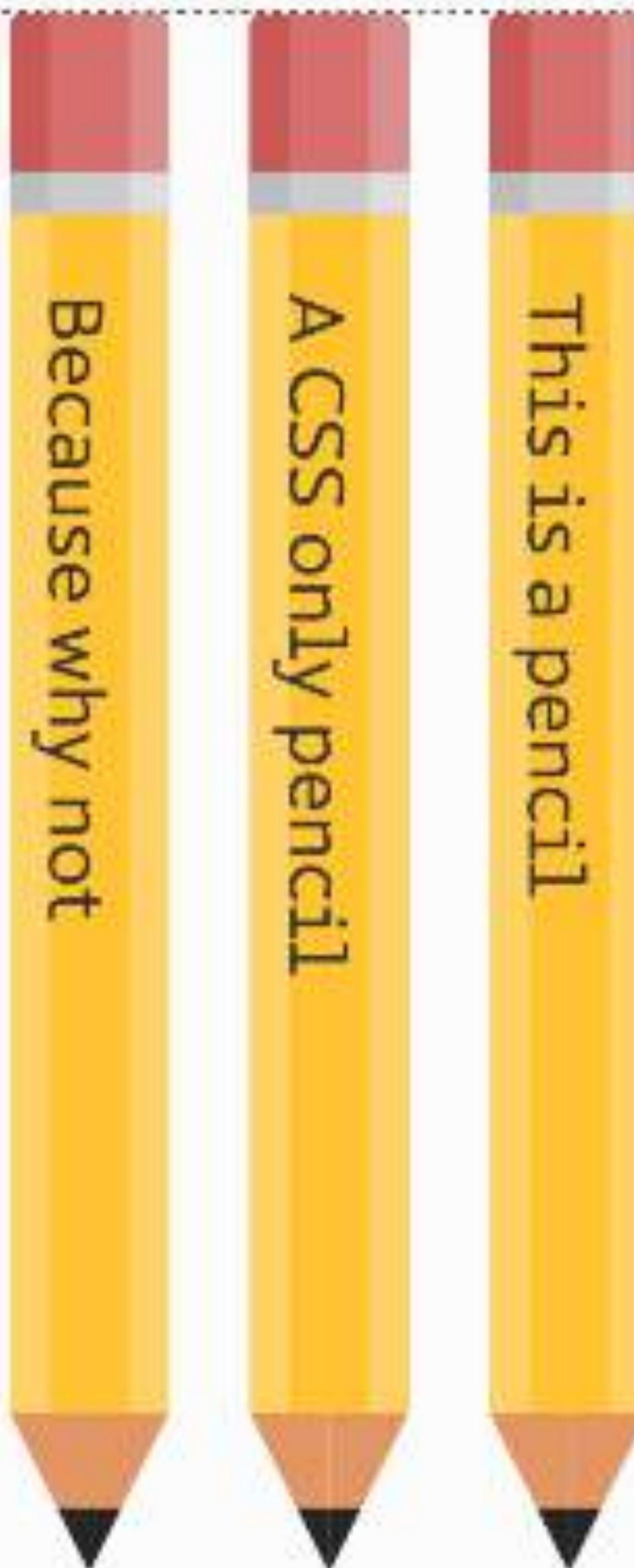
2. Visual styles



```
.transforms1 li {  
  display: flex;  
  align-items: start;  
  margin-bottom: 1em;  
}  
  
.transforms1 li::after {  
  content: '';  
  border-style: solid;  
  border-color: transparent transparent #e29663;  
  border-width: 1em 2em 1em;  
}  
  
.transforms1 li::before {  
  content: '';  
  width: 2.5em;  
  height: 2em;  
  background: #d76f6e;  
  border-top: 0.5em solid #da8e8d;  
  border-bottom: 0.5em solid #c85957;
```



3. Layout styles



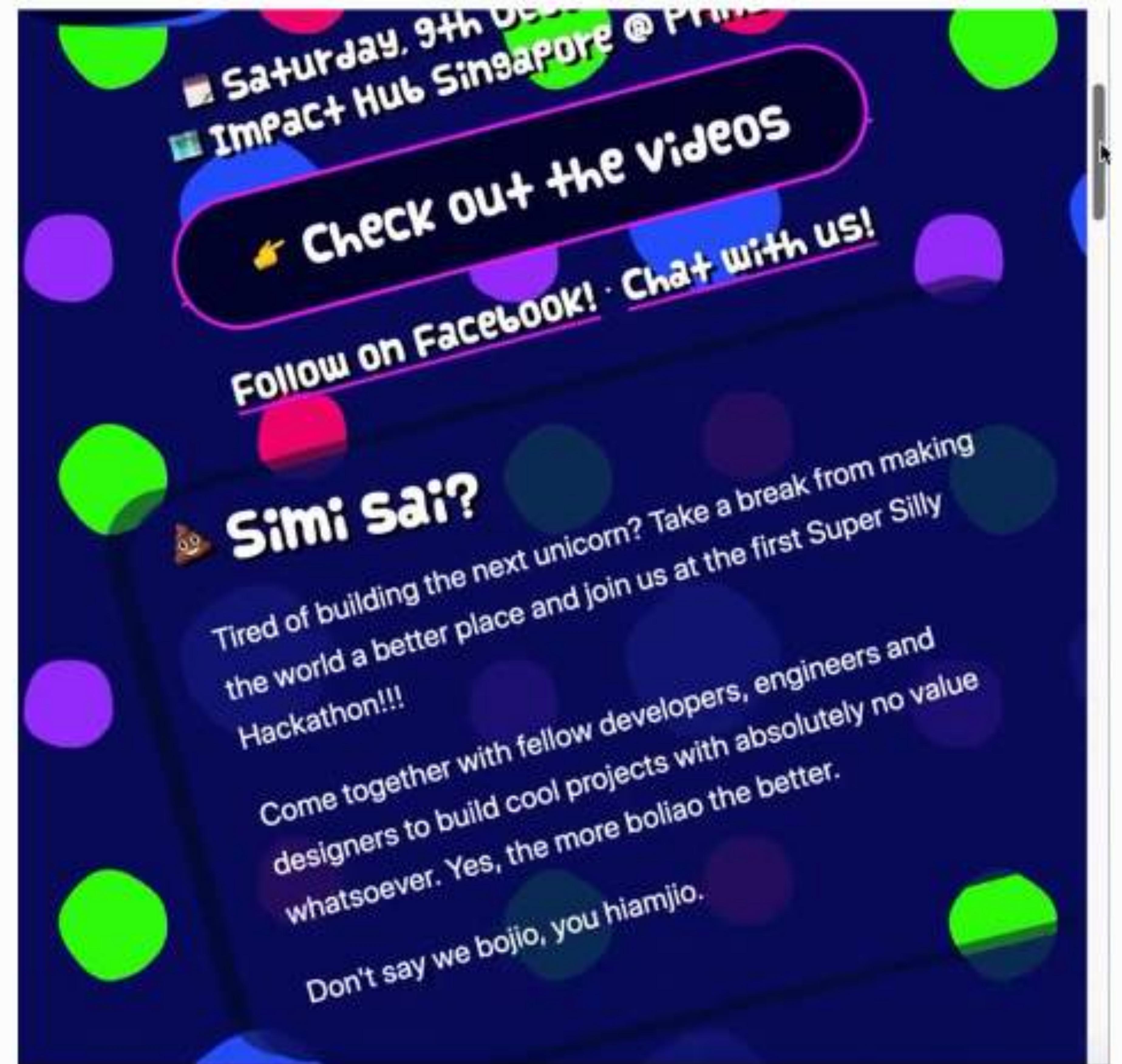
```
.transforms2 {  
    transform: rotate(90deg)  
    translateY(-150%);  
    transform-origin: 0% 0%;  
}
```



变形元素时会发生什么事？

- 会在元素上创建新的本地坐标系 (new local coordinate system)
- 不影响被变形元素周边的内容流
- 会产生层叠上下文 (stacking context)







team **Layout**

writing mode

Specifies the block flow direction, which determines the ordering direction of block-level boxes in a block formatting context

Can make content horizontal or vertical

CSS书写模式

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。



writing-mode 属性

horizontal-tb 从1987到现在

vertical-rl

从
到
现在
1987

vertical-lr

从
到
现在
1987

sideways-rl*

从
到
现在
1987

sideways-lr*

从
到
现在
1987

有*印记的属性被延期到Level 4





text-orientation 属性

从1987到现在

mixed

从1987到现在

upright

从1987到现在

sideways

text-combine-upright 屬性

民國107年6月1日

none

民國107年6月1日

all

民國107年6月1日

*digits <integer>**

Codepen example for `text-combine-upright`



古巴
Cuba

愛沙尼亞共和國
Estonia

列支敦斯登
Liechtenstein

Creating CSS pencils

(writing-mode edition)

1. Mark-up
2. Layout and visual styles



1. Mark-up

- This is a pencil
- A CSS only pencil
- Because why not

```
<ul>
  <li>
    <p>This is a pencil</p>
  </li>
  <li>
    <p>A CSS only pencil</p>
  </li>
  <li>
    <p>Because why not</p>
  </li>
</ul>
```



2. Layout styles

This is a pencil
A CSS only pencil
Because why not

```
.writingmode1 {  
    writing-mode: vertical-rl;  
}
```

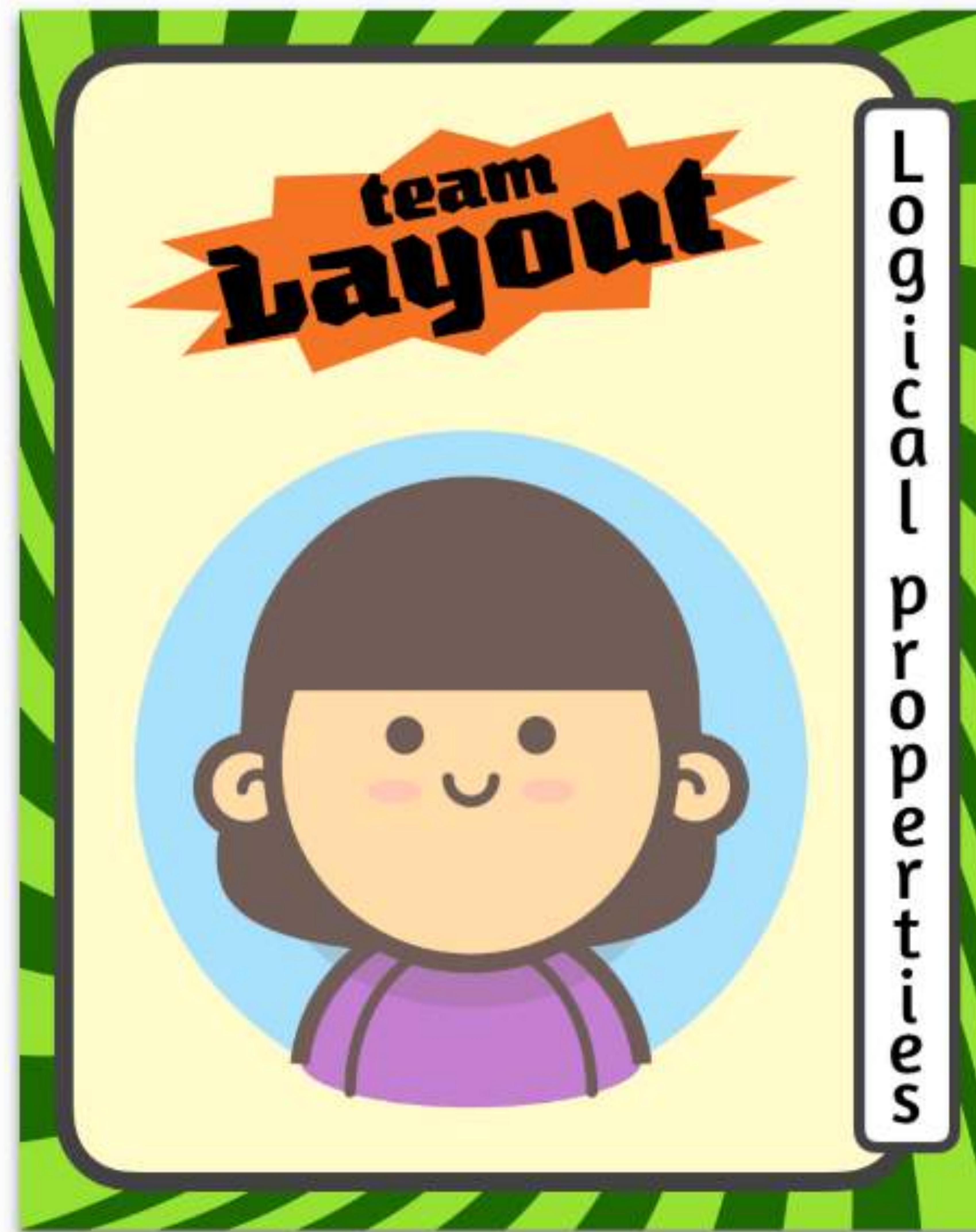


3. Visual styles



```
.writingmode2 li {  
  margin-left: 1em;  
  display: flex;  
  align-items: start;  
}  
  
.writingmode2 li::after {  
  content: '';  
  display: block;  
  border-style: solid;  
  border-color: #e29663 transparent  
  transparent transparent;  
  border-width: 2em 1em 1em;  
}  
  
.writingmode2 li::before {
```





Logical properties

team Layout

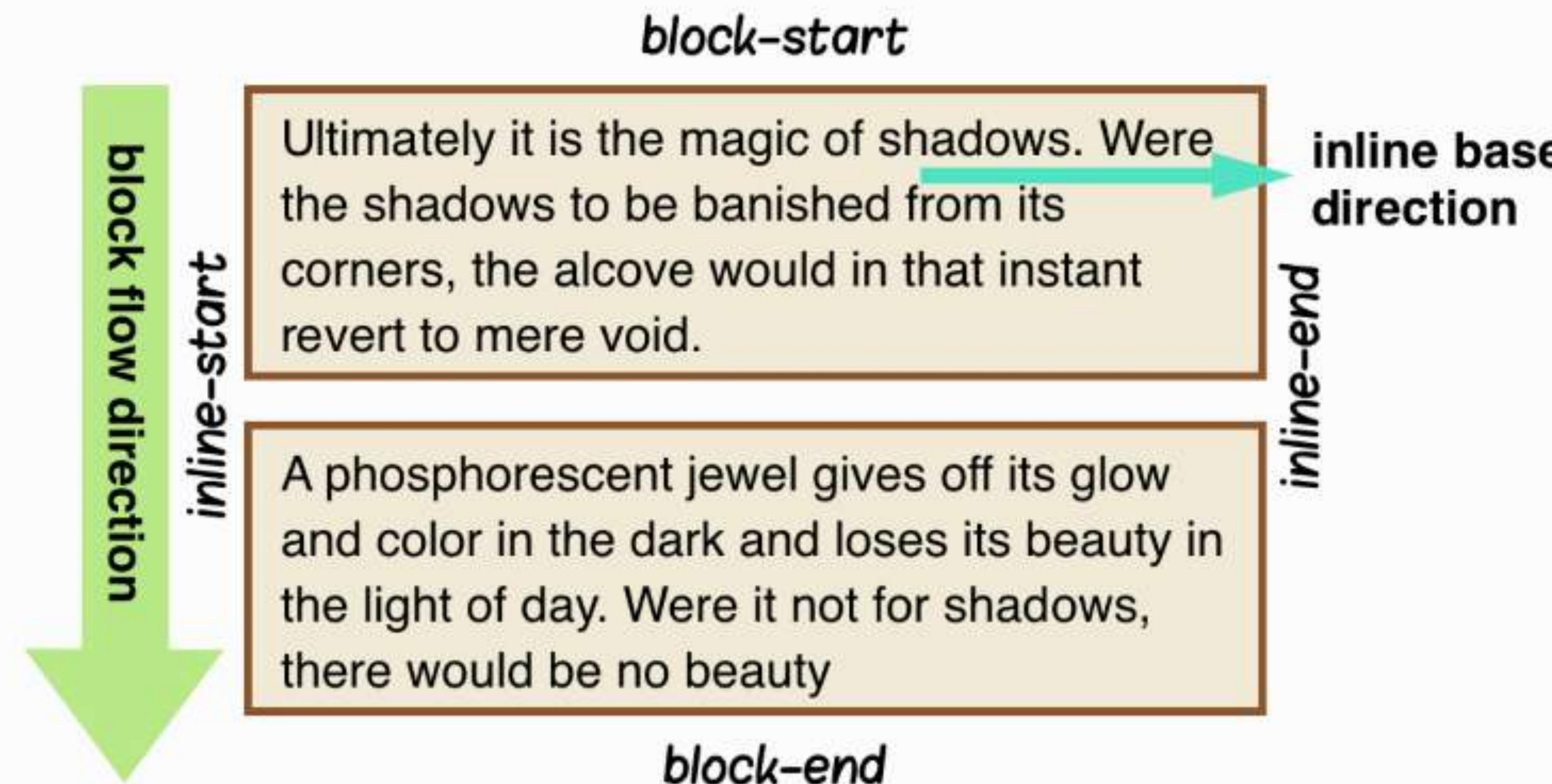
Logical properties

Allows control of layout through logical, rather than physical, direction and dimension mappings

Resolves confusion with left and right when writing-mode changes



逻辑方向





<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 sub-headline: "in the past, CSS has tied itself to physical dimensions and directions, physically impacting the placement of elements on the left, right, and top, bottom, and center. But with the introduction of logical properties, CSS has become much more flexible, allowing for easier layout creation and better accessibility. This article will explain what logical properties are, how they work, and how you can use them to make your CSS easier to maintain and more accessible." A sidebar on the right side of the article features a red cat icon and the text "Members support Smashing" followed by the number "742". At the bottom of the article, there is a green button with the text "Are you smashing, too? →".

March 26, 2018 • 4 COMMENTS

Understanding Logical Properties And Values

in the past, CSS has tied itself to physical dimensions and directions, physically impacting the placement of elements on the left, right, and top, bottom, and center. But with the introduction of logical properties, CSS has become much more flexible, allowing for easier layout creation and better accessibility. This article will explain what logical properties are, how they work, and how you can use them to make your CSS easier to maintain and more accessible.

They make your code of 192 lines a 10-line snippet, without losing any functionality. They're also great for accessibility, as they support writing directionality in a way that doesn't confuse your visual readers and Grid.

CSS逻辑属性和值

When I first began working with CSS Grid and explaining the new specification to people, I found that the `grid-area` property could be used as a one-line shorthand for writing all four lines. Therefore, the three examples below would result in the same item placement. The first uses the shorthand property, the second specifies start and end

Members support Smashing
742

Are you smashing, too? →





team Layout

Flexbox

Describes a CSS box model
optimized for user
interface design

Makes vertical centring a
pleasant dream instead of
a horrible nightmare

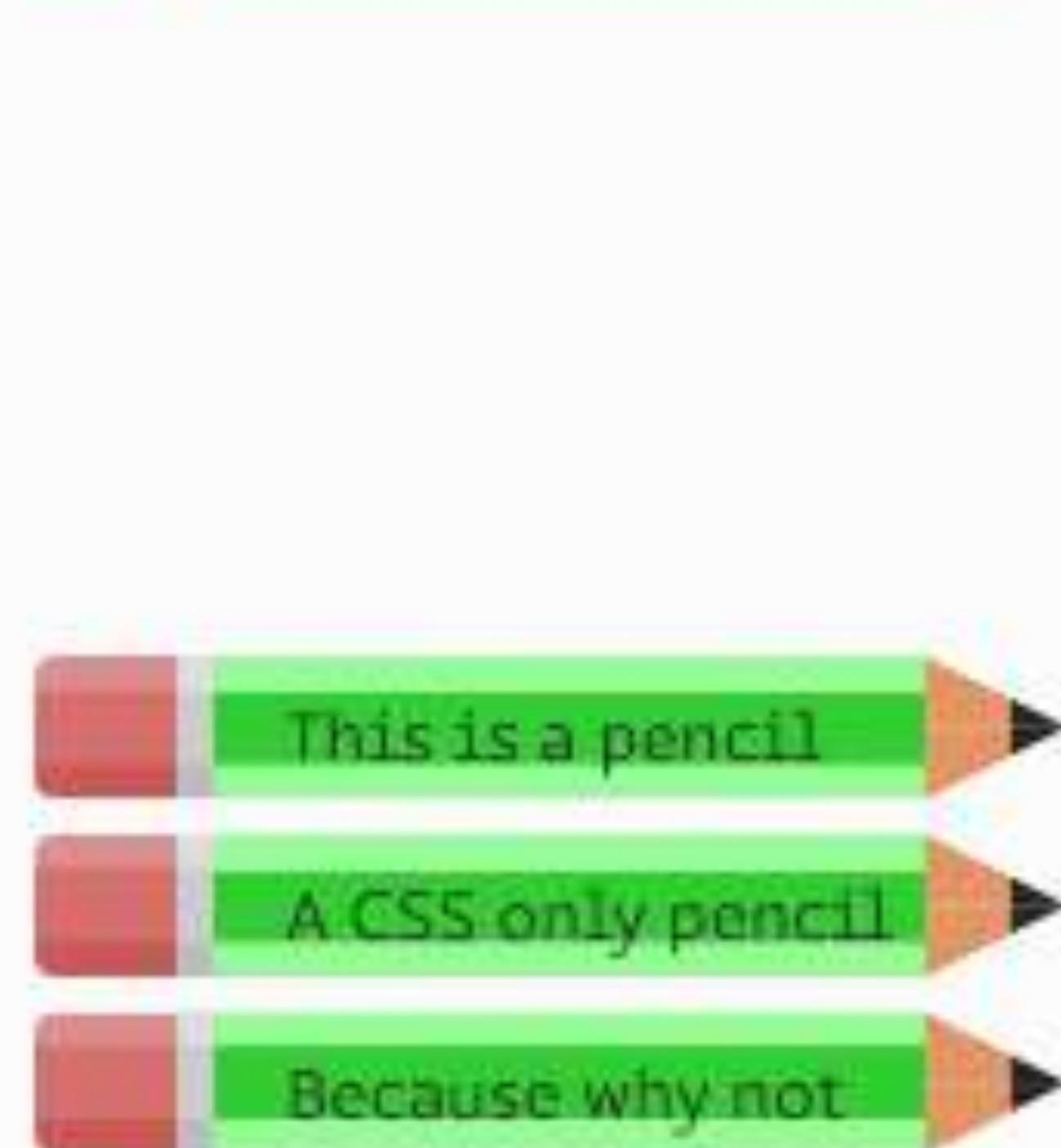
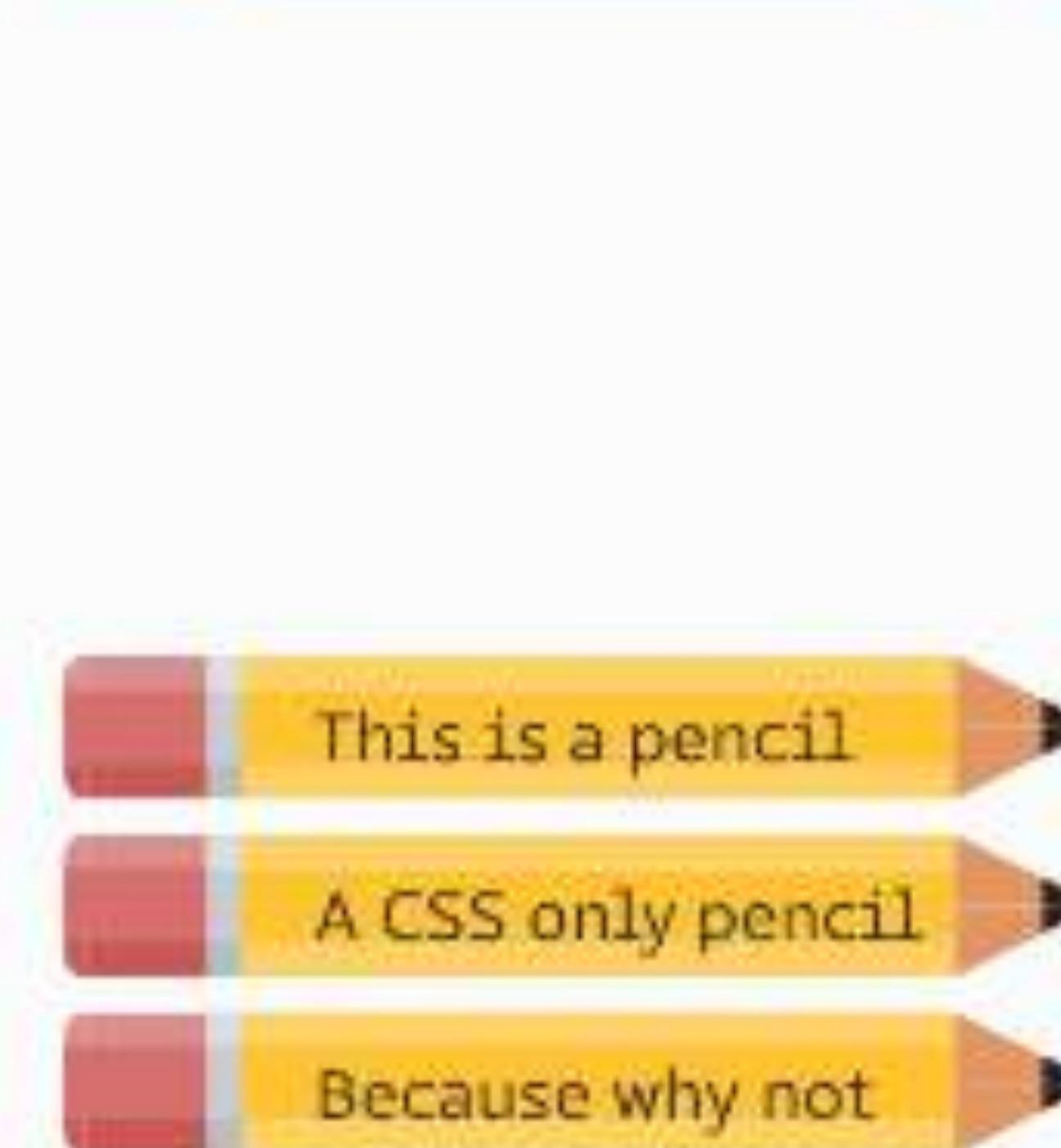
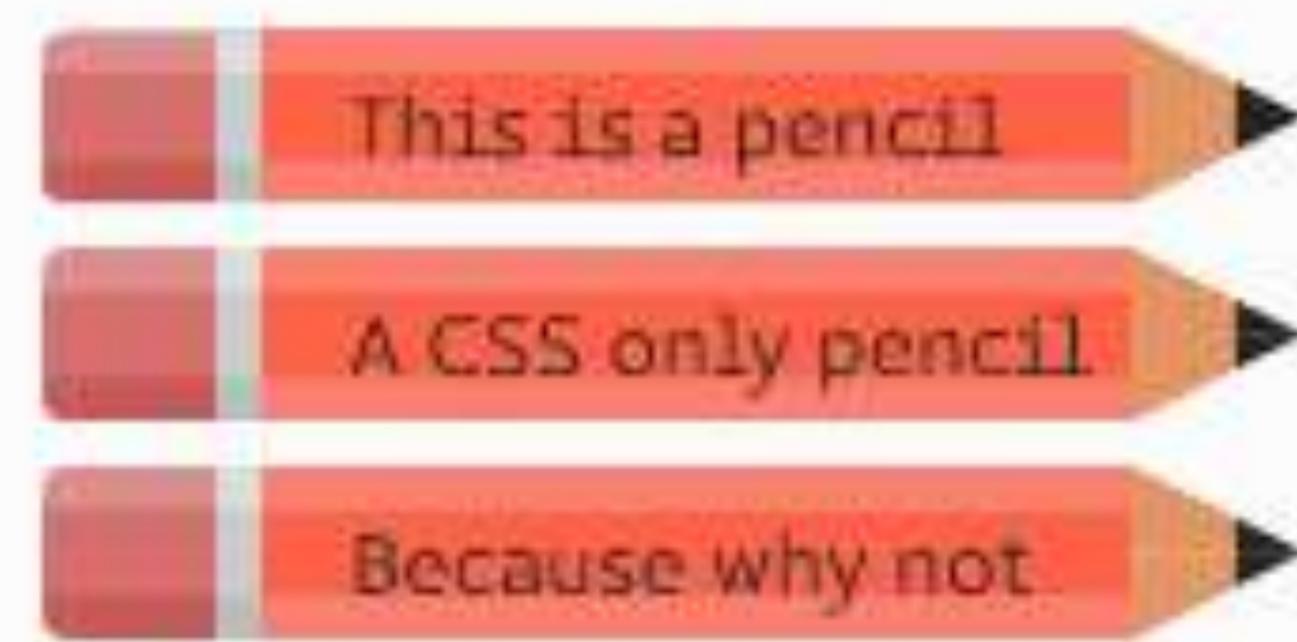
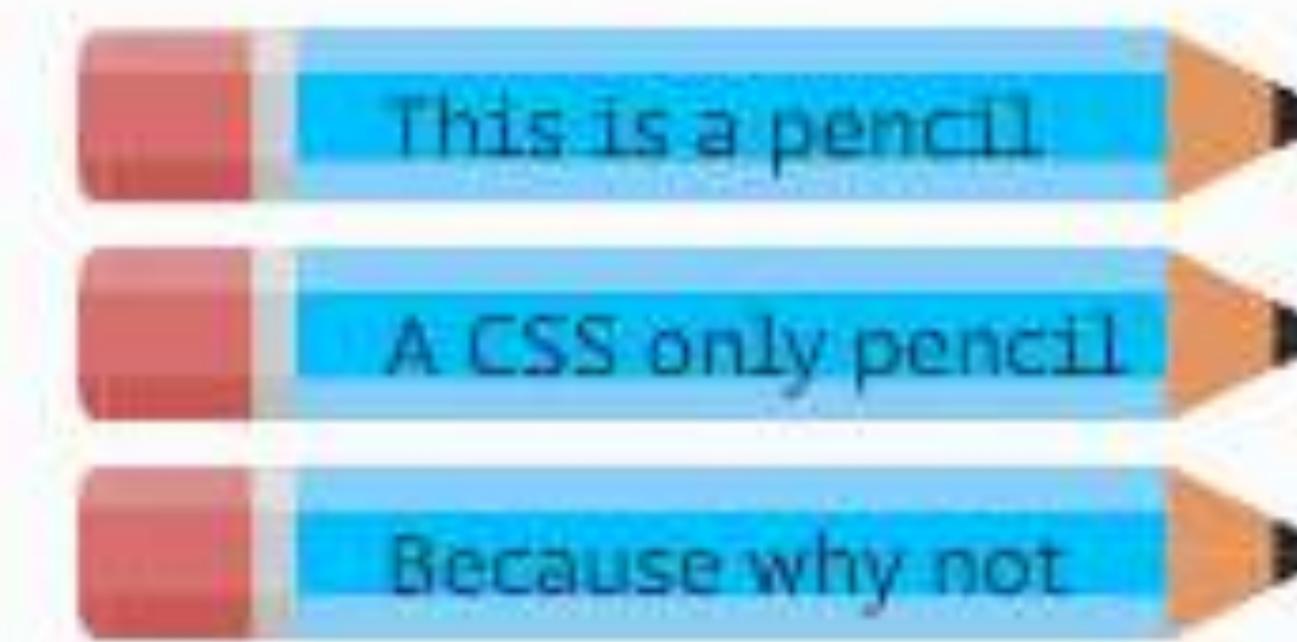
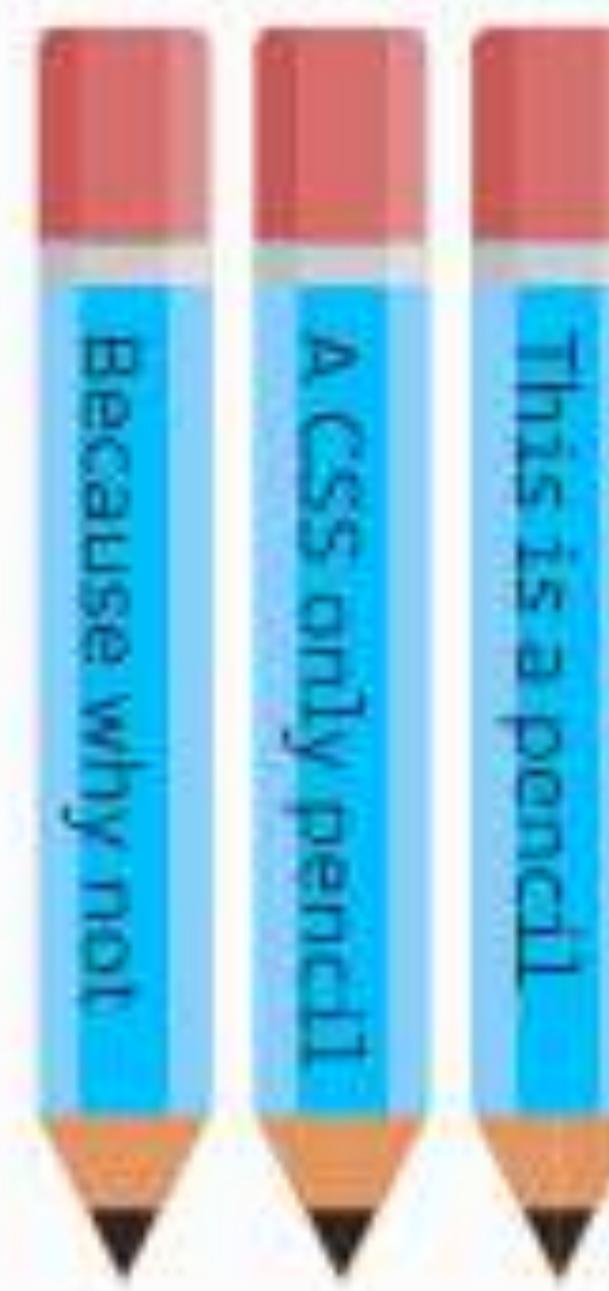
Moar pencils, please

- This is a pencil
- A CSS only pencil
- Because why not
- This is a pencil
- A CSS only pencil
- Because why not
- This is a pencil
- A CSS only pencil
- Because why not
- This is a pencil
- A CSS only pencil
- Because why not
- This is a pencil
- A CSS only pencil
- Because why not
- This is a pencil
- A CSS only pencil
- Because why not

```
<div>
  <ul>
    <li>
      <p>This is a pencil</p>
    </li>
    <li>
      <p>A CSS only pencil</p>
    </li>
    <li>
      <p>Because why not</p>
    </li>
  </ul>
  <ul>
    <li>
      <p>This is a pencil</p>
    </li>
```



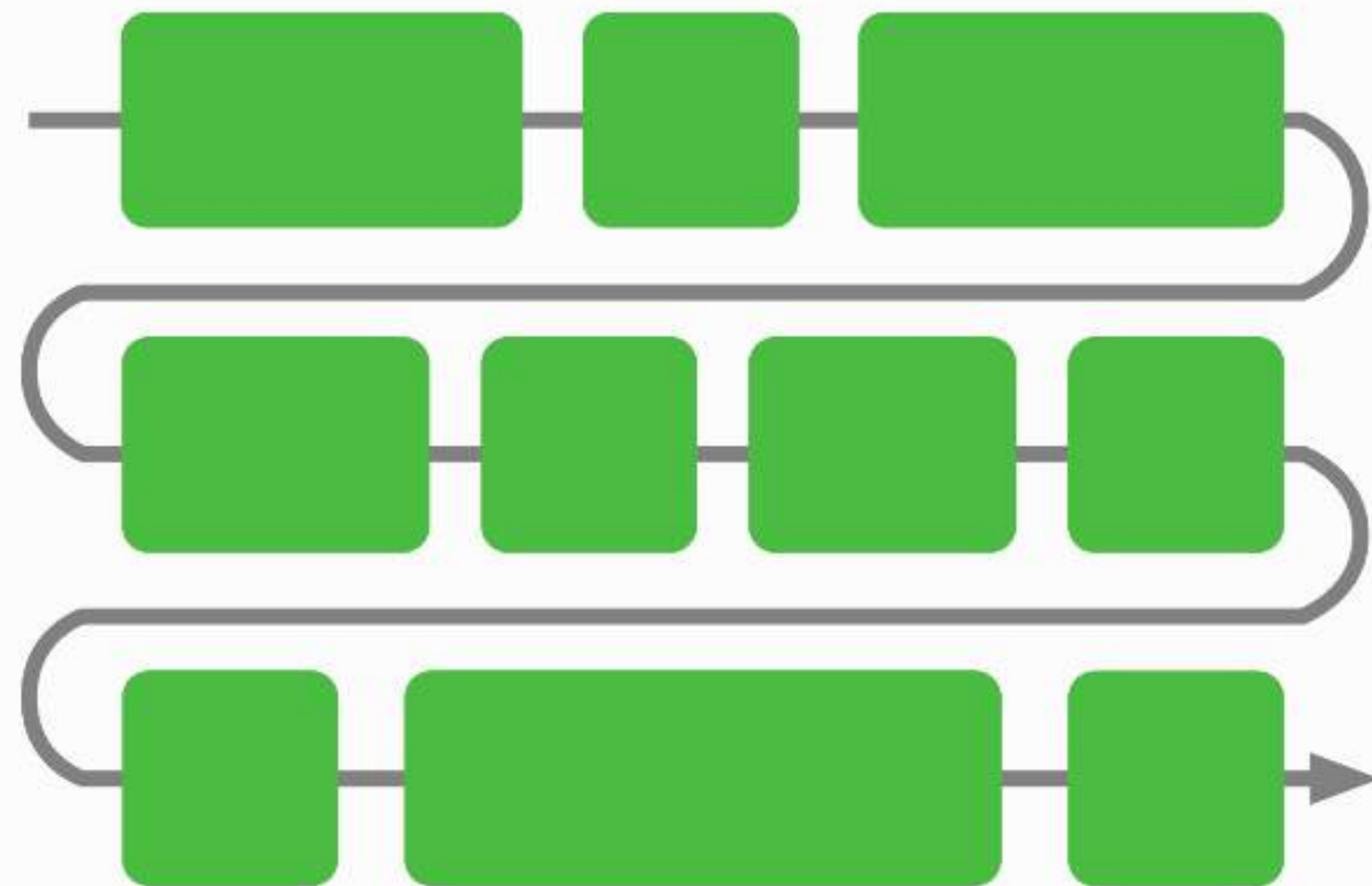
Mixed writing-modes?



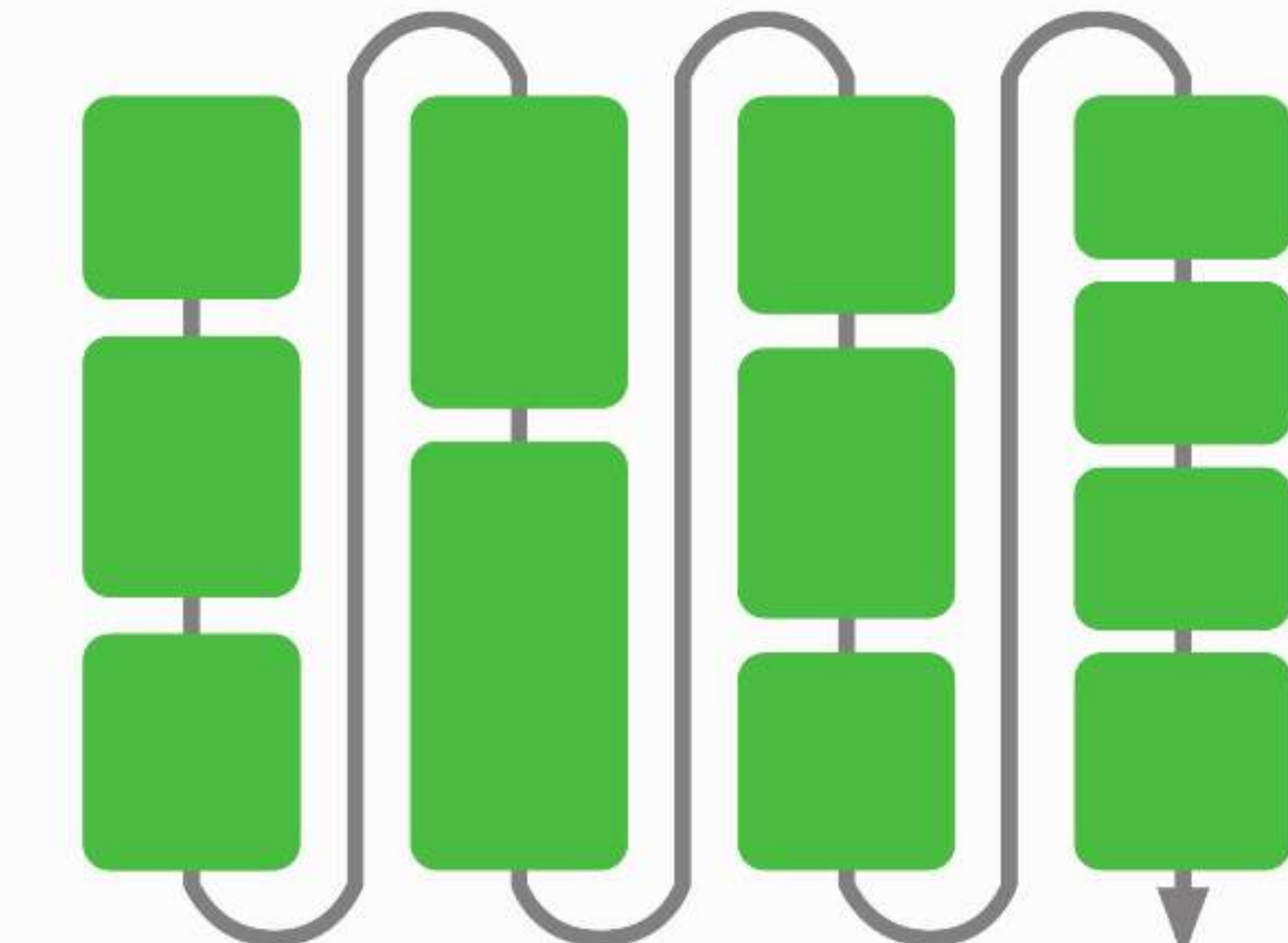
```
.flex1 .vert {  
  writing-mode: vertical-rl;  
}  
  
.flex1 .vert li {  
  display: flex;  
  align-items: start;  
  margin: 0.5em;  
}  
  
.flex1 .vert li::after {  
  content: '';  
  display: block;  
  border-style: solid;  
  border-color: #e29663 transparent transparent  
  transparent;  
  border-width: 2em 1em 1em;  
}  
  
.flex1 .vert li::before {  
  content: '';
```



单维布局



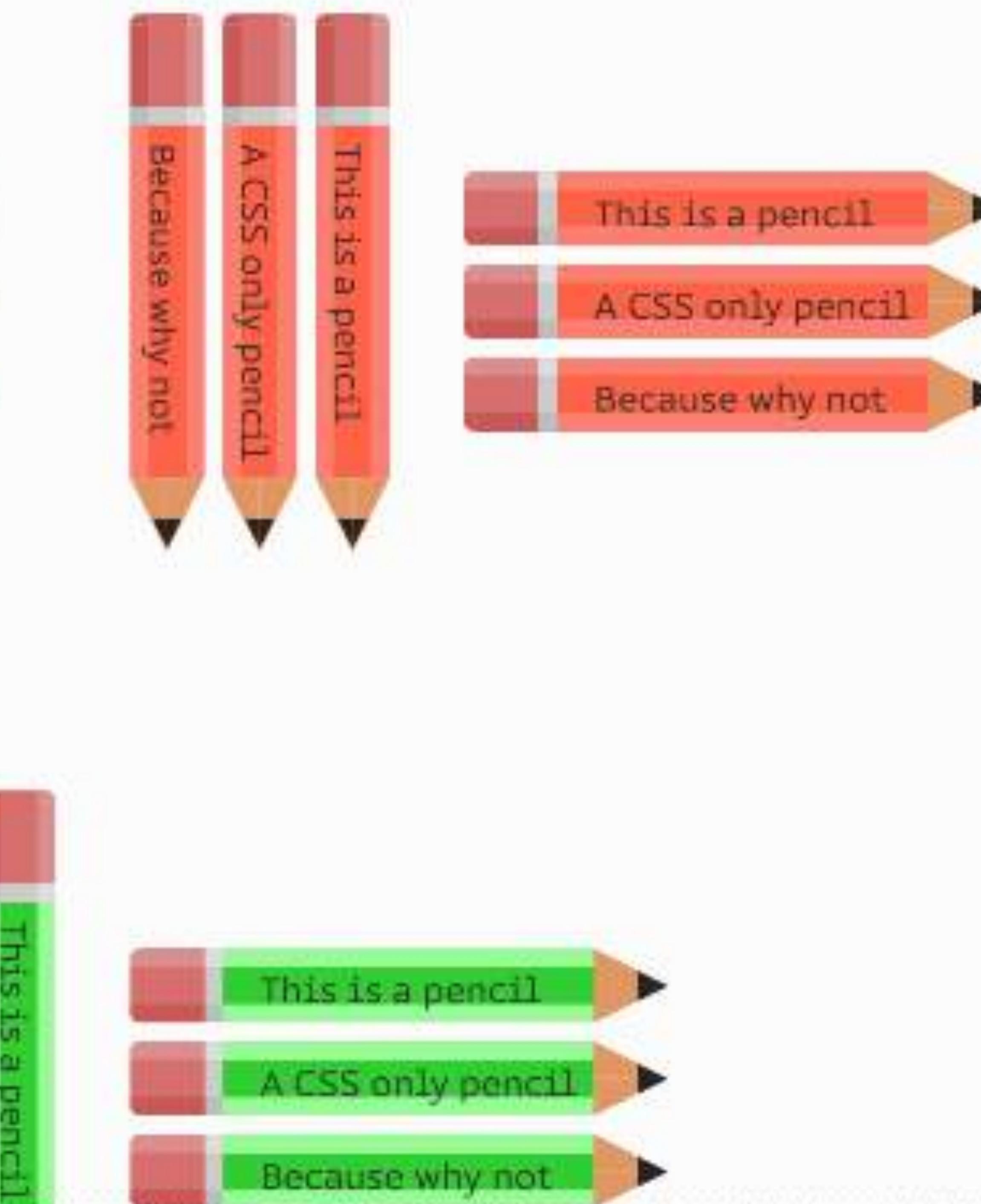
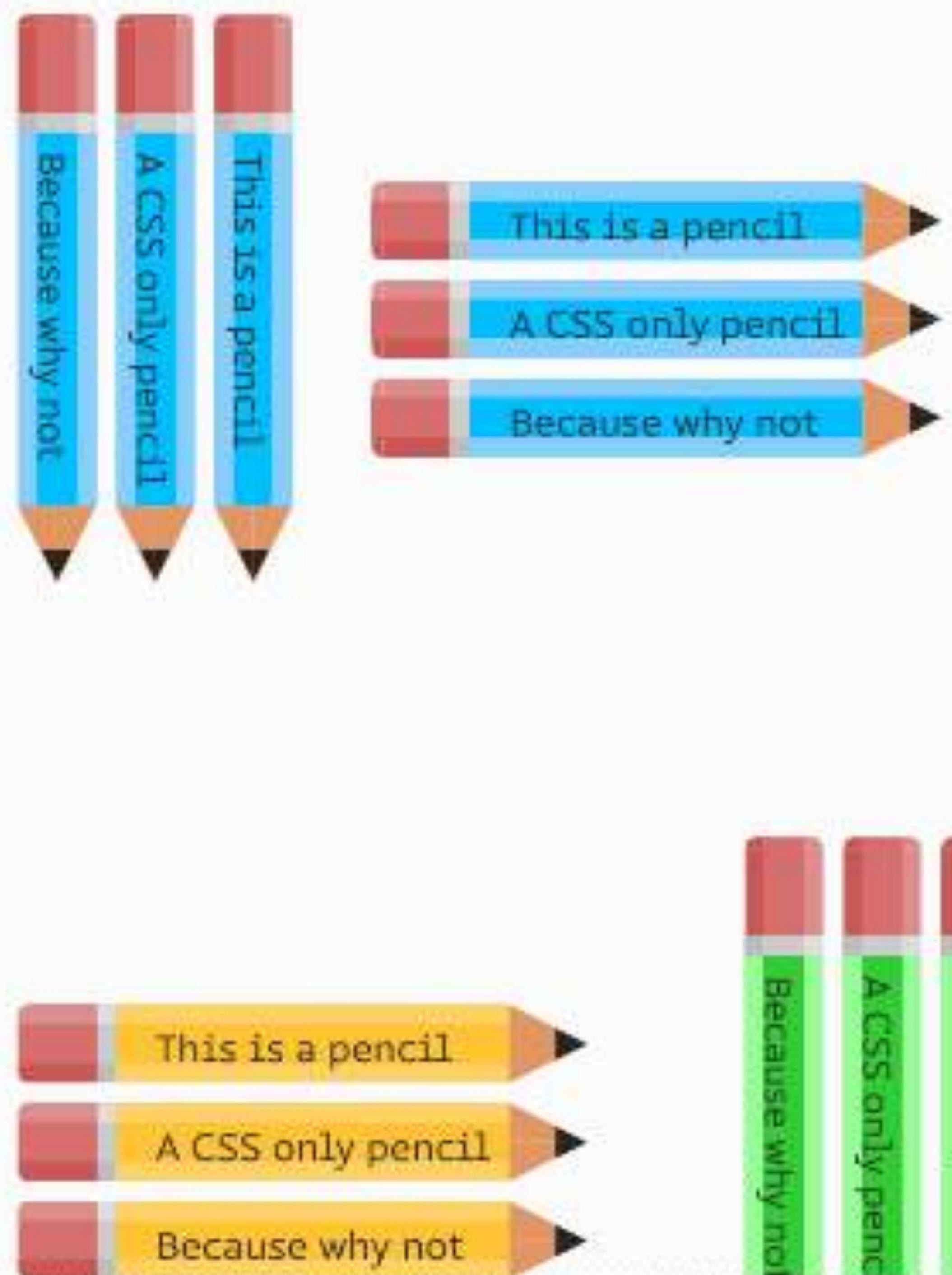
flex-direction: row



flex-direction: column



弹性布局转方向



```
.flex2 {  
  display: flex;  
  align-items: center;  
  height: 120%;  
  flex-wrap: wrap;  
  flex-direction: column  
  reverse;  
}
```





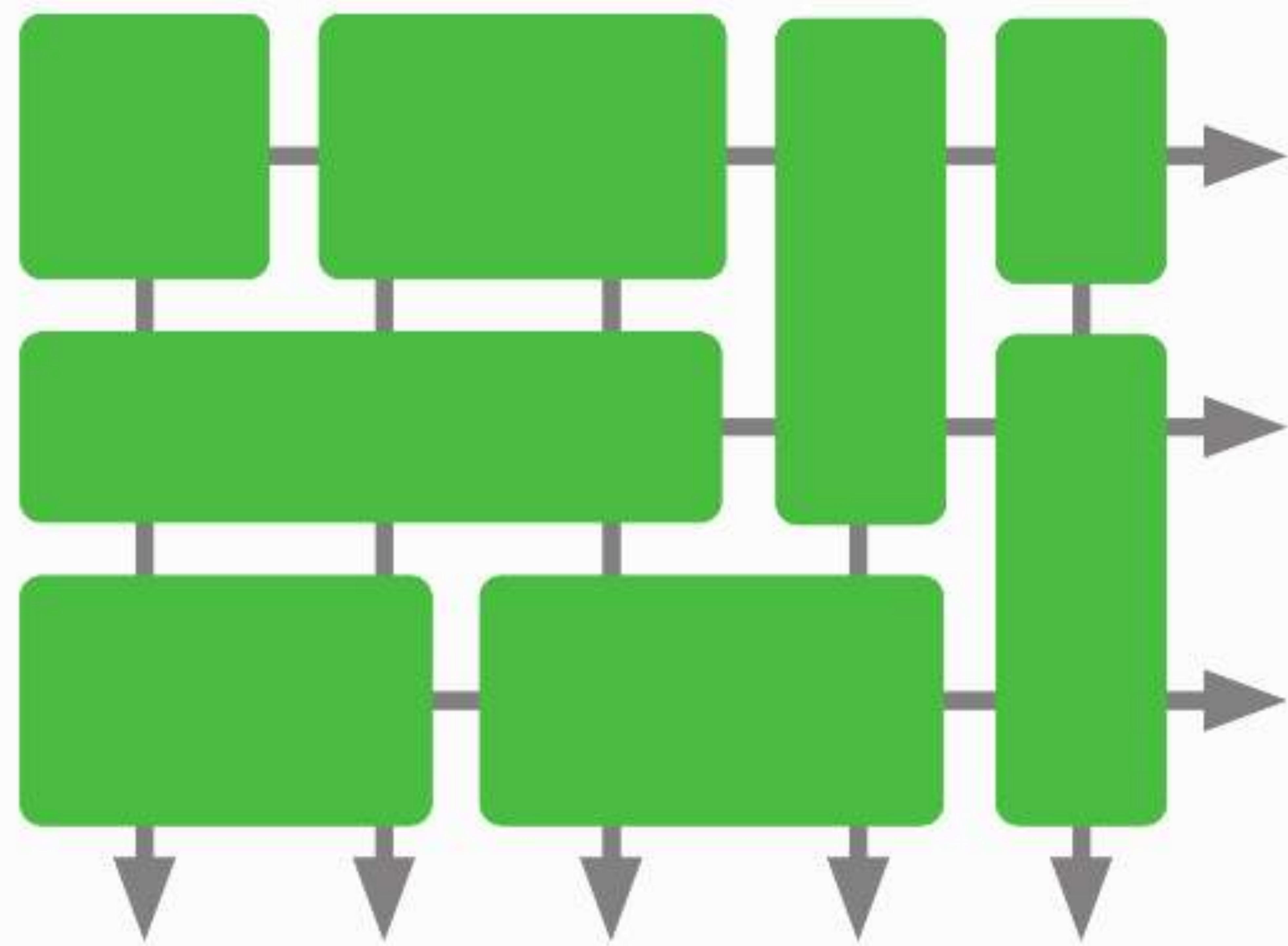
team Layout

CSS Grid

Defines a two-dimensional grid-based layout system, optimized for user interface design

Makes it possible to do overlap and vertical whitespace easily

二维布局行列之间的关系

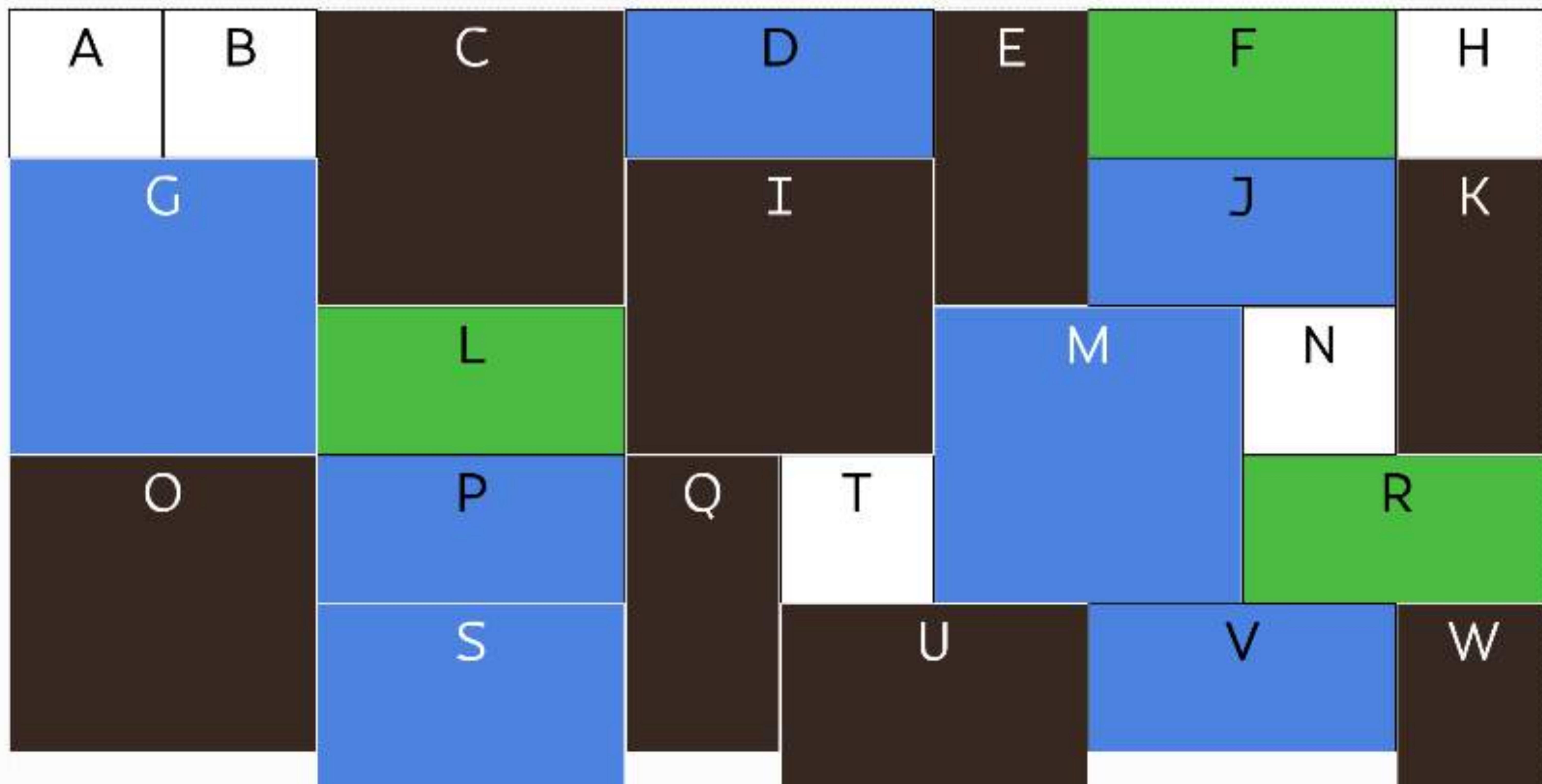


插图从Brenda Storer的演讲*Using CSS in the real world*引用。



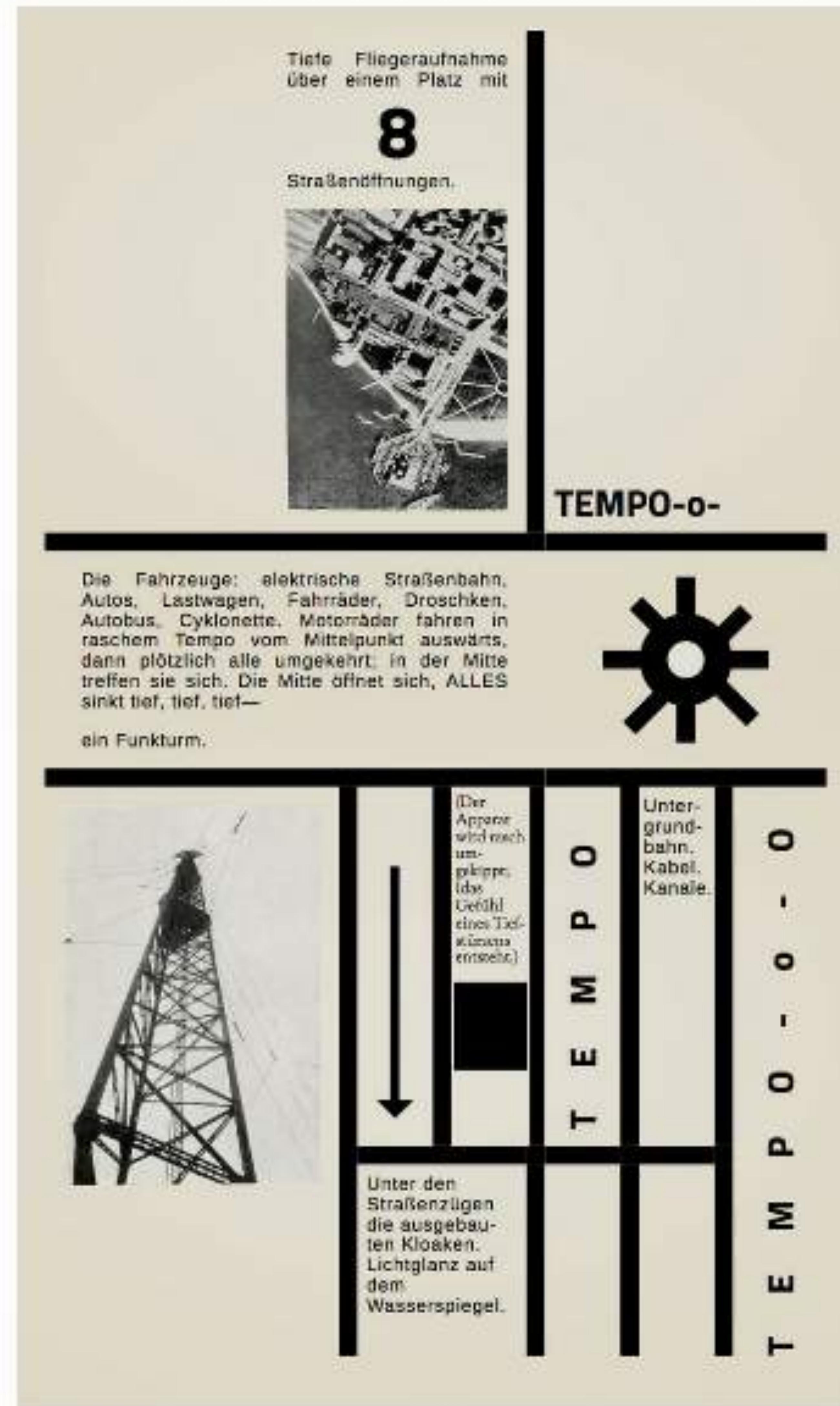
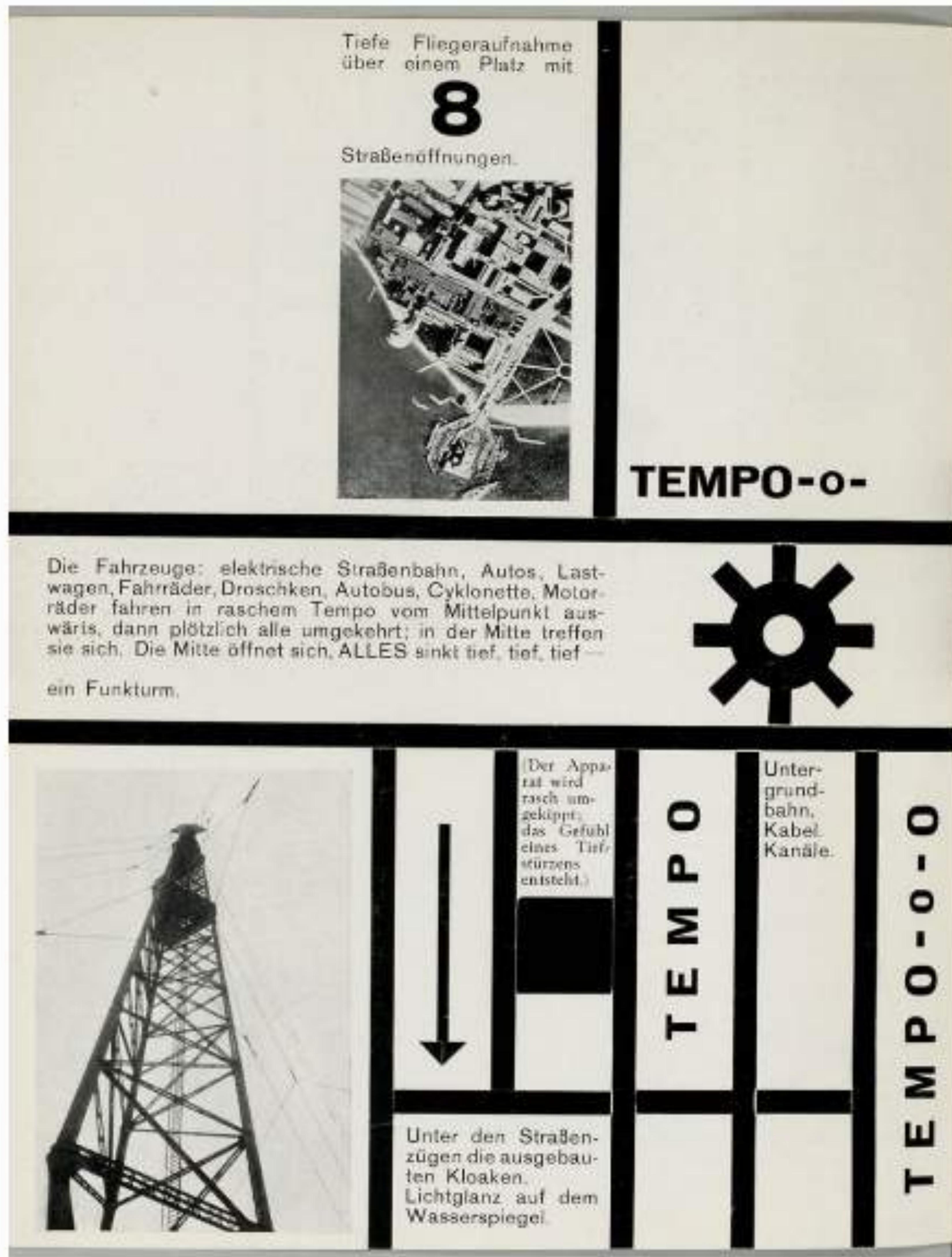
网格布局转方向

(以及调整项目密度)



```
.autoflow {  
  display: grid;  
  grid-template-columns:  
  repeat(auto-fit, minmax(120px,  
  1fr));  
  grid-auto-rows: 120px;  
  grid-auto-flow: row dense;  
}  
  
.autoflow__item:nth-child(3n) {  
  background-color: #4abc41;  
  grid-column-end: span 2;  
}
```

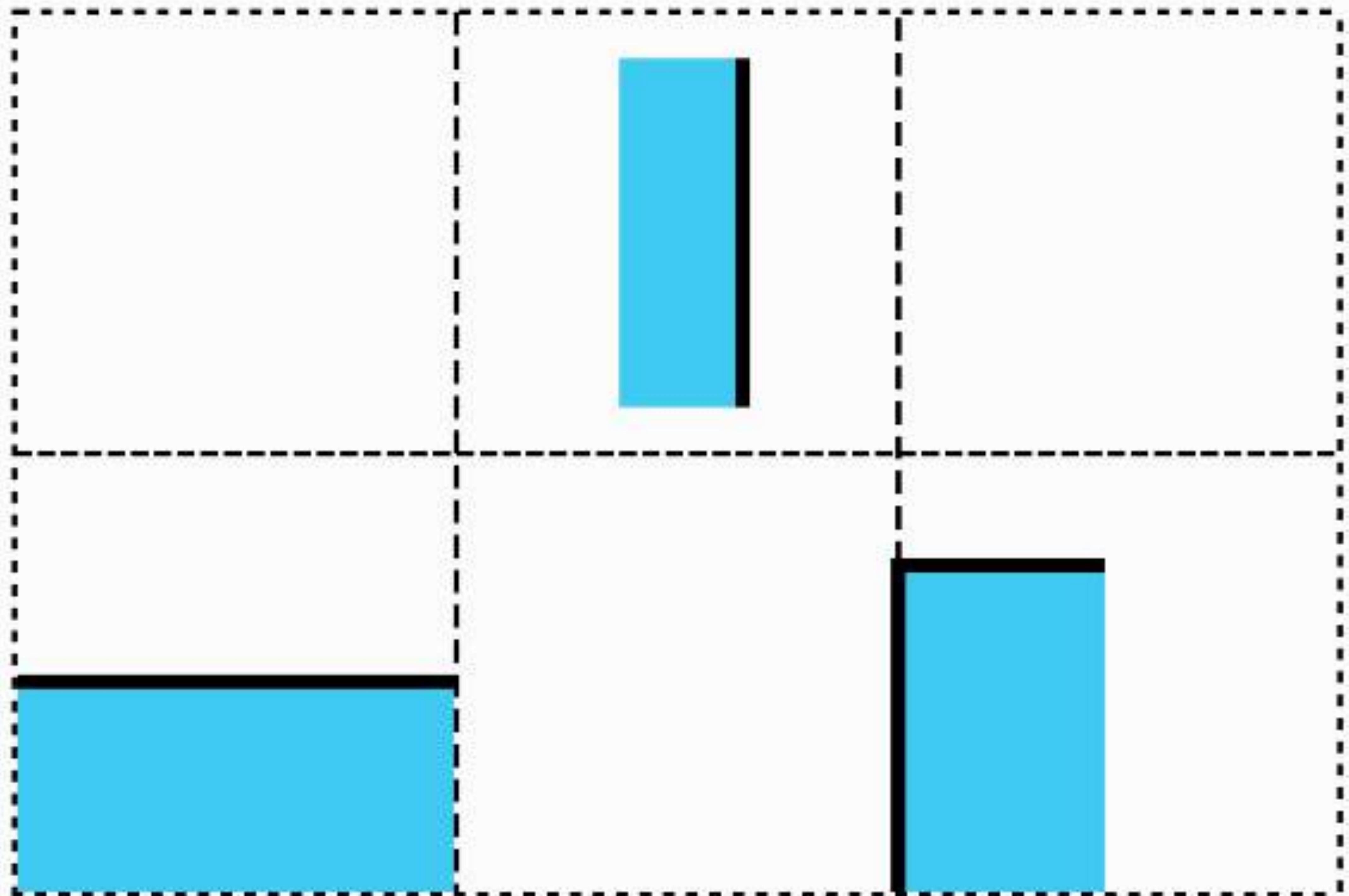




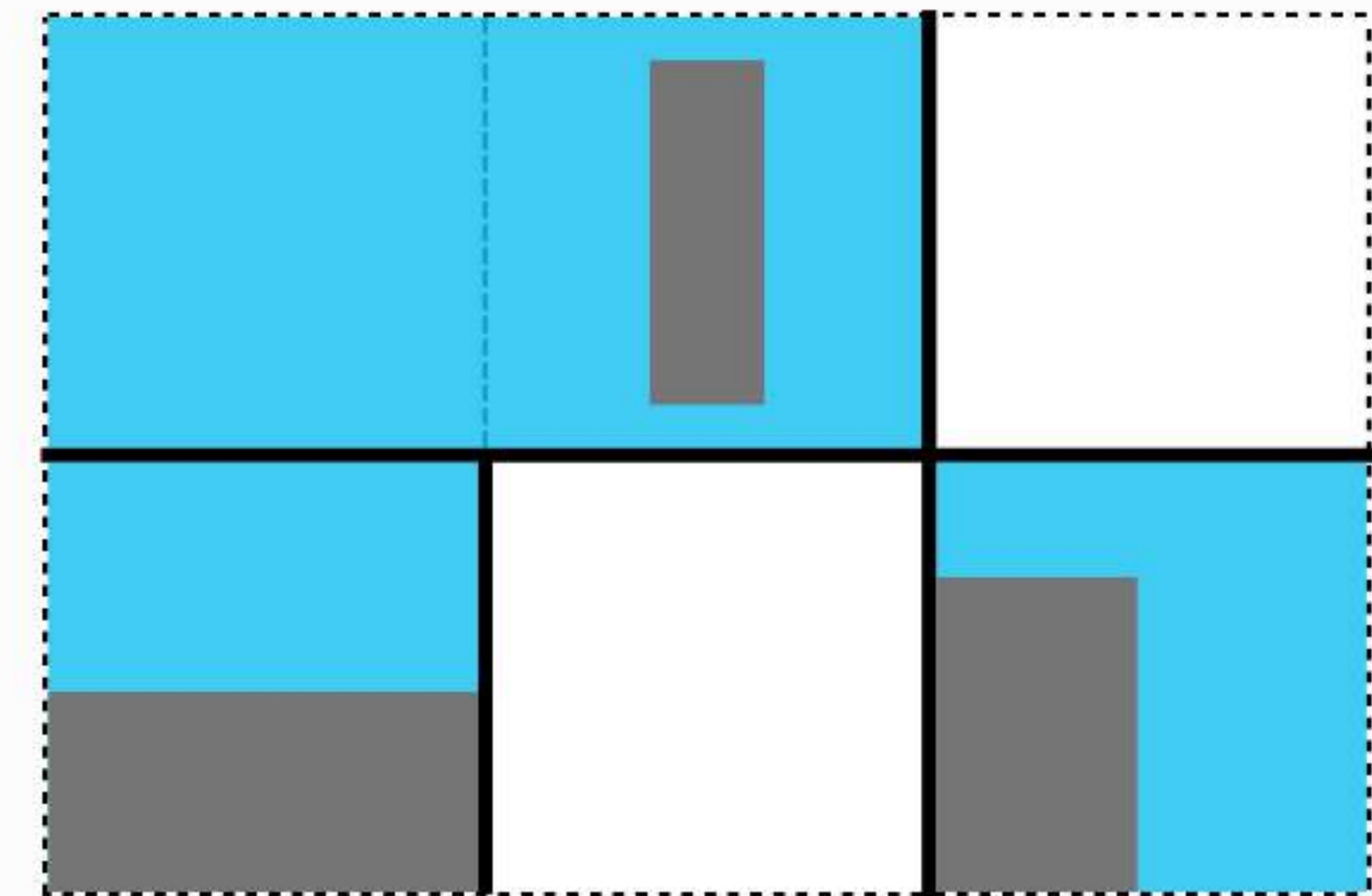
原作: Moholy-Nagy, Malerei, Fotografie, Film



Grid和Flexbox并用



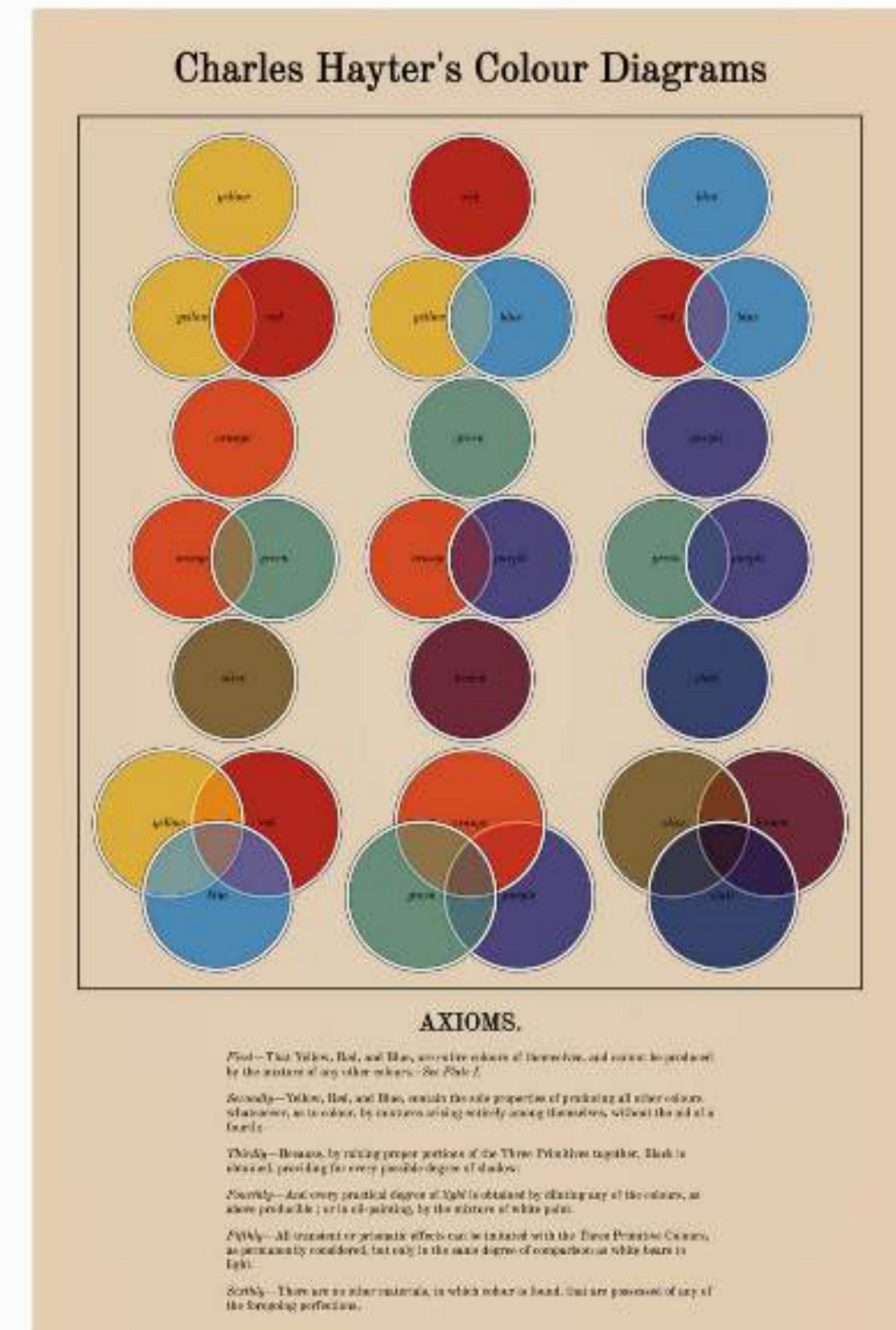
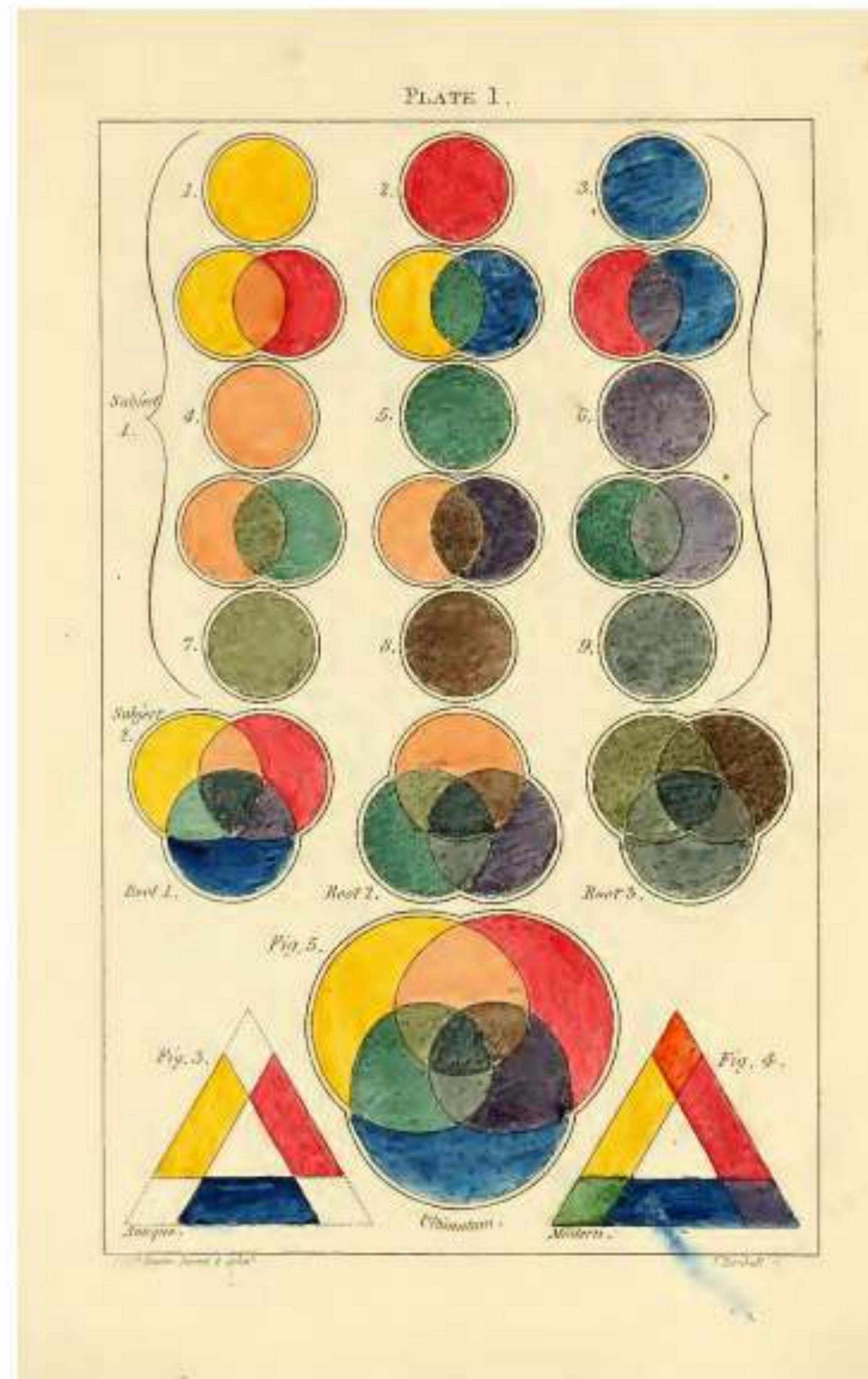
These are not the borders you are looking for



That's more like it



Grid和mix-blend-mode



Grid命名的网格区域定义

Braun HiFi studio Anlagen

Als HiFi Spitzengeräte auf dem Weltmarkt erreichen Braun studio Anlagen das höchste Ziel: Musik so zu übertragen, wie sie wirklich ist.

Um diese so selbstverständlich scheinende Aufgabe in ihrer vollen Konsequenz zu lösen, bedurfte es jahrelanger Forschung, strengster Auswahl modernster elektronischer Bauelemente und Anwendung neuartiger Konstruktionen.

Braun studio Anlagen bestehen aus HiFi Komponenten, die man je nach Anspruch und Raumgröße individuell zusammenstellen kann. Jeder Baustein paßt zum anderen, technisch und formal.

BRÄUN

Braun HiFi studio Anlagen

Als HiFi Spitzengeräte auf dem Weltmarkt erreichen Braun studio Anlagen das höchste Ziel: Musik so zu übertragen, wie sie wirklich ist.

Um diese so selbstverständlich scheinende Aufgabe in ihrer vollen Konsequenz zu lösen, bedurfte es jahrelanger Forschung, strengster Auswahl modernster elektronischer Bauelemente und Anwendung neuartiger Konstruktionen.

Braun studio Anlagen bestehen aus HiFi Komponenten, die man je nach Anspruch und Raumgröße individuell zusammenstellen kann. Jeder Baustein paßt zum anderen, technisch und formal.

BRÄUN

原创: Wolfgang Schmittel



Braun HiFi studio Anlagen

[title]

Als HiFi Spitzengeräte auf dem Weltmarkt erreichen Braun studio Anlagen das höchste Ziel: Musik so zu übertragen, wie sie wirklich ist.

Um diese so selbstverständliche scheinende Aufgabe in ihrer vollen Konsequenz zu lösen, bedurfte es Jahrzehntiger Forschung strengster Auswahl modernster elektronischer Bauelemente und Anwendung neuartiger Konstruktionen.

Braun studio Anlagen bestehen aus HiFi Komponenten, die man je nach Anspruch zur Raumgröße individuell zusammenstellen kann. Jeder Baustein paßt zum anderen, technisch und formal.

[text]

Braun



Braun HiFi studio Anlagen

title

2 Als HiFi Spitzengeräte auf dem Weltmarkt erreichen Braun studio Anlagen das höchste Ziel: Musik so zu übertragen, wie sie wirklich ist.

Um diese so selbstverständlich scheinende Aufgabe ihrer vollen Konsequenz zu lösen, bedurfte es jahrelanger Forschung, strengster Auswahl modernster elektronischer Bauelemente und Anwendung neuartiger Konstruktionen.

Braun studio Anlagen bestehen aus HiFi Komponenten, die man je nach Anspruch und Raumgröße individuell zusammenstellen kann. Jeder Baustein passt zum anderen, technisch und formal.

text

BRAUN

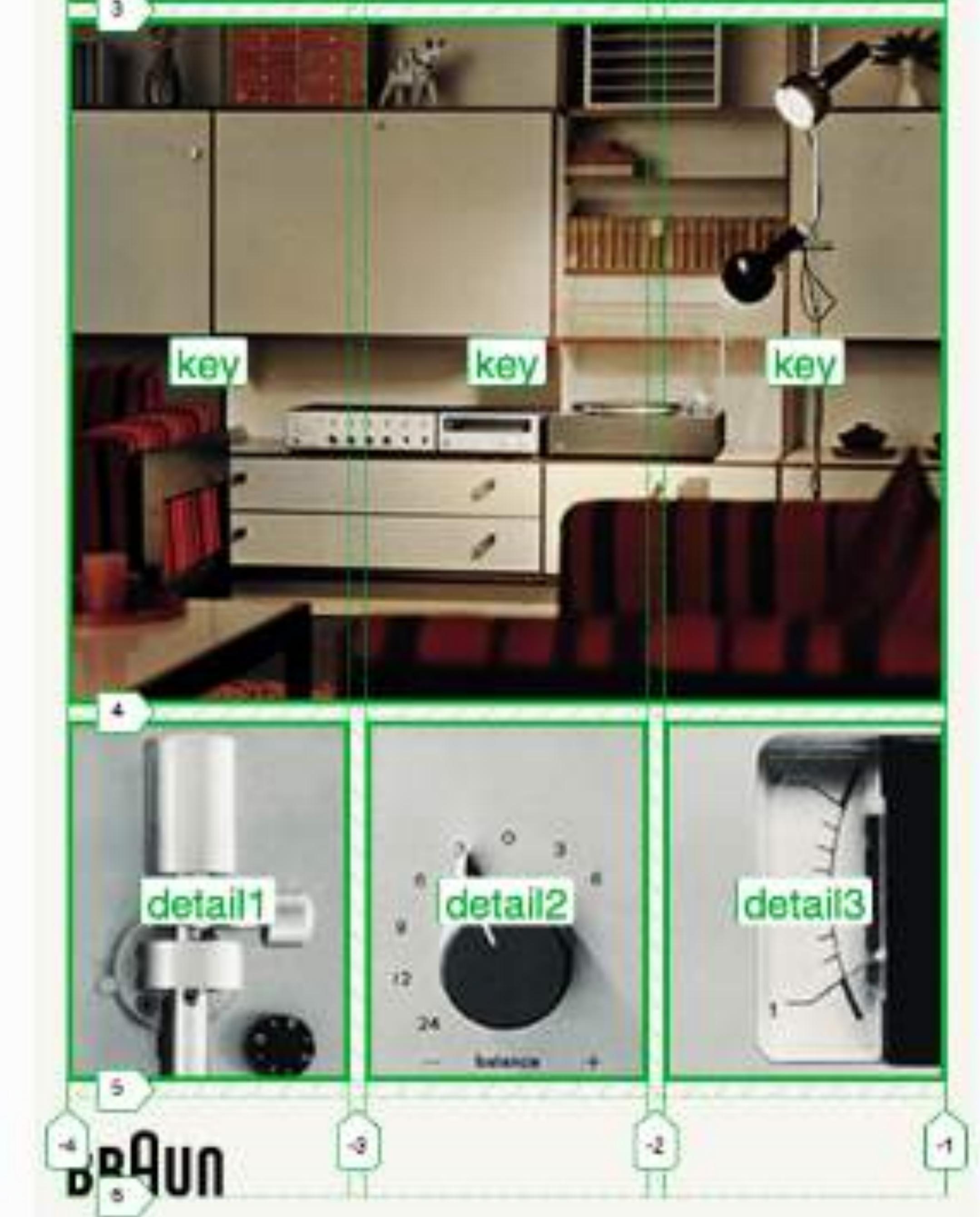


Braun HiFi studio Anlagen

title title title
2 Als HiFi Spitzengeräte auf dem Weltmarkt erreichen Braun studio Anlagen das höchste Ziel: Musik so zu übertragen, wie sie wirklich ist.

Um diese so selbstverständlich scheinende Aufgabe ihrer vollen Konsequenz zu lösen, bedurfte es jahrelanger Forschung, strengster Auswahl modernster elektronischer Bauelemente und Anwendung neuartiger Konstruktionen.

Braun studio Anlagen bestehen aus HiFi Komponenten, die man je nach Anspruch und Raumgröße individuell zusammenstellen kann. Jeder Baustein passt zum anderen, technisch und formal.



利用aspect-ratio媒体检测

A screenshot of a web browser window titled "Braun HiFi posters web-ifed". The address bar shows "localhost:2314/#steuergerät". The page content is a promotional text for the "Braun HiFi Steuergerät audio 300". The text discusses the challenges of capturing musical performances and the unique features of the audio 300 device. To the right of the text are five images: a close-up of a microphone stand, a row of microphones, a conductor leading an orchestra, a close-up of a violin bow, and a decorative graphic.

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

Grid、writing-mode、Flex等属性并用



A photograph of a Tycho concert. A male performer is in the foreground, playing a keyboard. Behind him, another performer is visible on stage. The background features large, colorful vertical panels with abstract designs.

Tycho

STREAM SINGLE

9.24.16 PHILADELPHIA
THE ELECTRIC FACTORY

TOUR DATES

ARTIST SPOTLIGHT

READ MORE

Earlier this year, San Francisco-based artist and designer Tycho announced a new album on the way for 2016, but gave scarce details about the project, leaving fans to speculate about just what the ambient master had in store. Fans need no longer worry, as Tycho's fifth studio album, *Epoch*, has arrived in grand fashion.

—

READ MORE



A photograph of a Tycho concert. A male performer is in the foreground, playing a keyboard. Behind him, another performer is visible on stage. The background features large, colorful vertical panels with abstract designs.

Tycho

10.2.2016 TORONTO
THE DRAKE HOTEL

TOUR DATES

ARTIST SPOTLIGHT

READ MORE

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.

ARTIST SPOTLIGHT

原创: Drew Sullivan



ARTIST SPOTLIGHT

10.2.2010 TORONTO
THE DRAKE HOTEL

TOUR DATES

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.

READ MORE



viewport单位、object-fit、:target等属性





team layout

Feature queries

Tests whether the user agent supports CSS property:value pairs

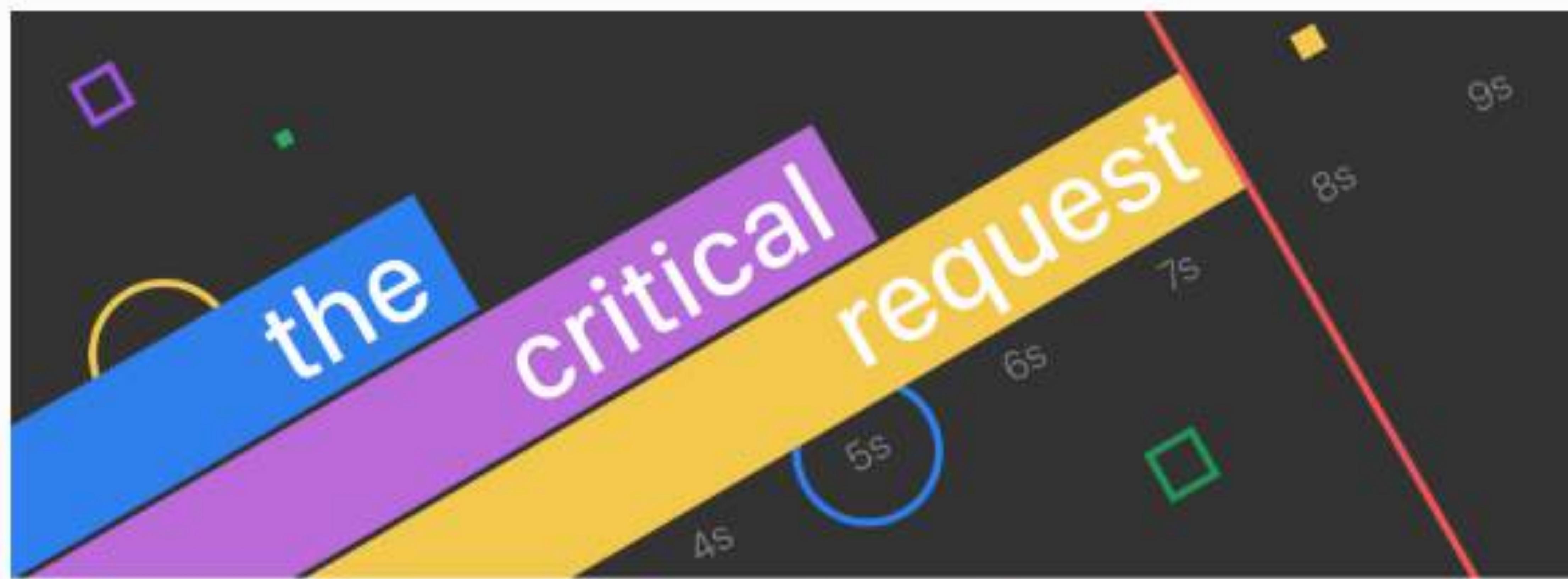
Like Modernizr, but in native CSS and makes it safe to use cutting edge features right now

支持旧款浏览器

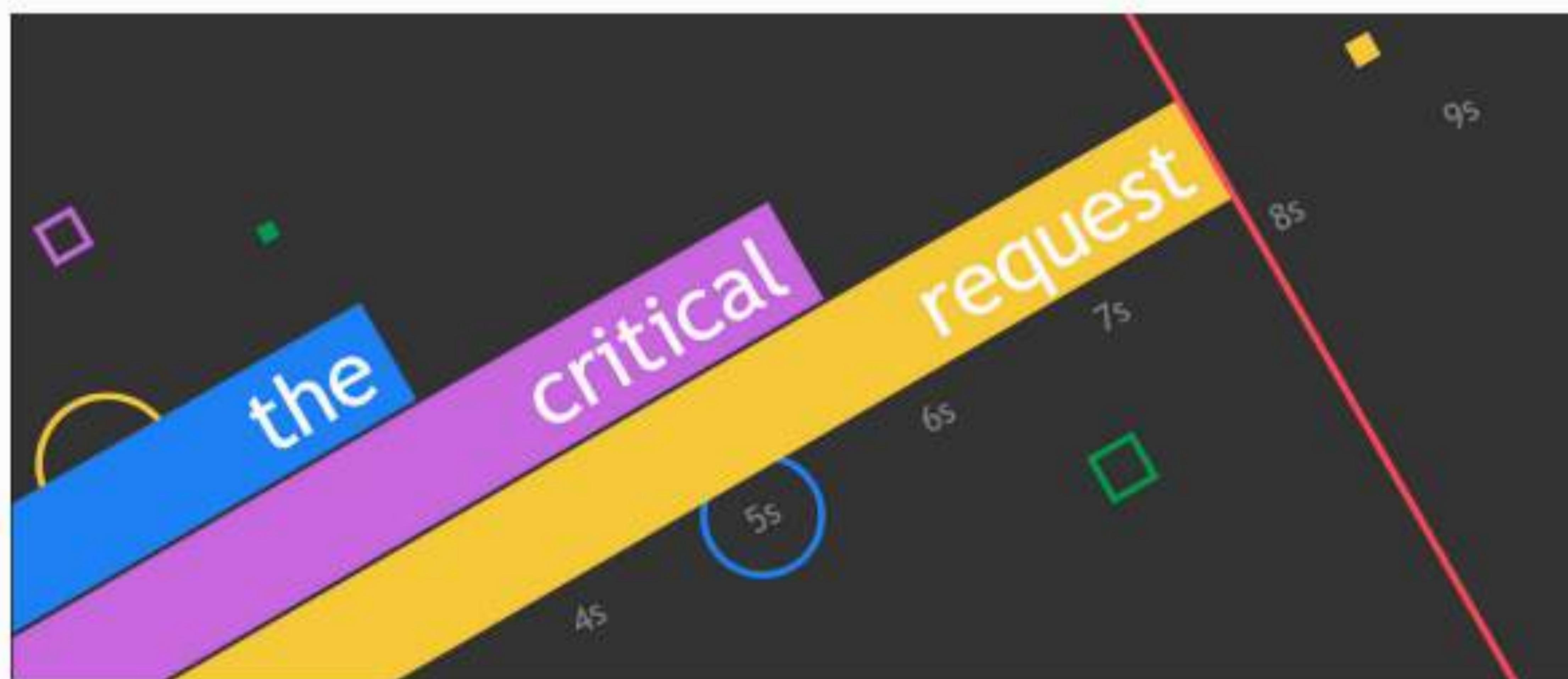
利用@supports，本地CSS功能检测

```
.selector {  
    /* Styles that are supported in old browsers */  
}  
  
@supports (property:value) {  
    .selector {  
        /* Styles for browsers that support the specified property */  
    }  
}
```

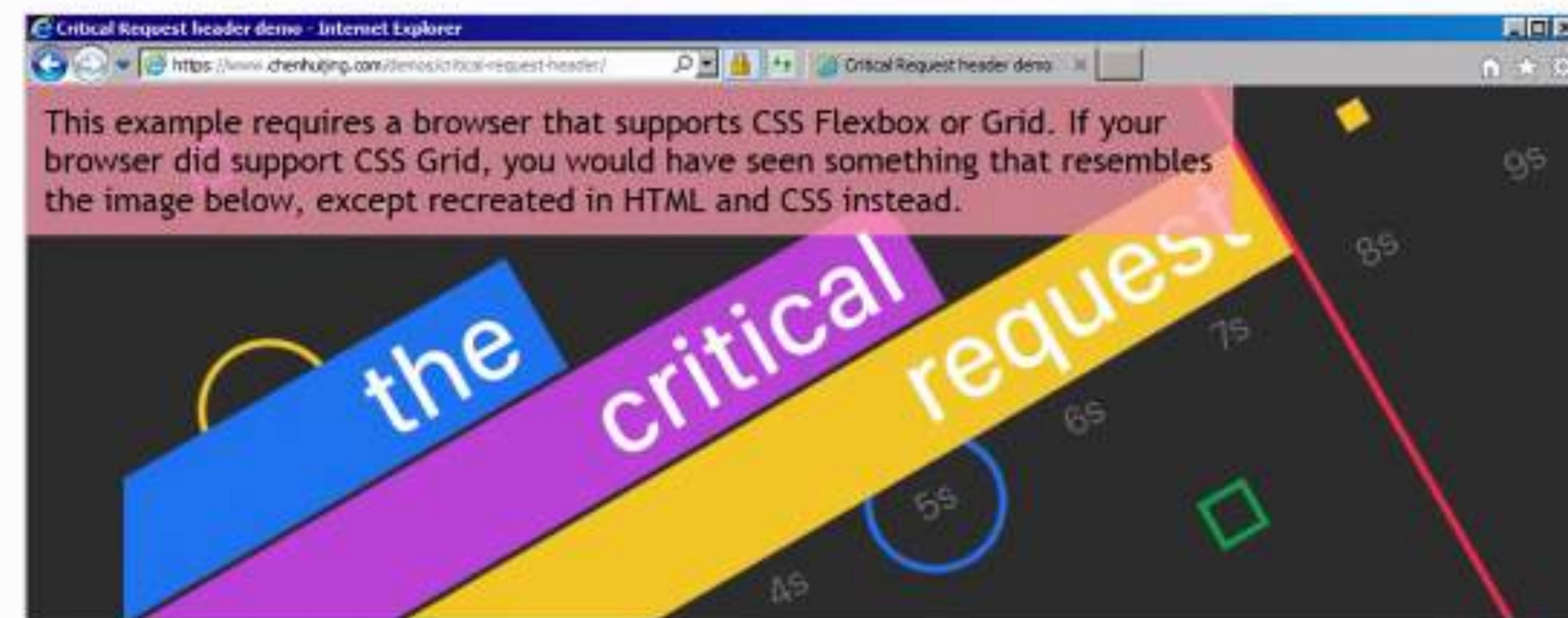




原作: *CSS tricks*



CSS复制





Whirlin Labs

Capabilities Partners Blog Contact

Data & Decision Sciences.
Digital Transformation.
Emerging Technologies.
Scalable Infrastructure.

The world is more connected than ever before, resulting in an economy and a business environment that is increasingly volatile and unpredictable. Innovation has been touted as the key to surviving in such a risky climate, but others, organizations that try to implement innovation initiatives fail to see tangible results. There can be a range of reasons for failure, from unrealistic expectations to lack of resources and time required, to innovative approaches never executed.

We believe that innovation is a collaborative process, involving multiple stakeholders in order to achieve a common goal. We believe that innovation is a collaborative process, involving multiple stakeholders in order to achieve a common goal. Whirlin Labs has proven expertise in helping organizations develop their own competitive edge through the adoption of modern and emerging technologies.

[Read more](#)

Our partners

Latest articles

Agile Data Science (Part 2): PMML
In part one, we described various strategies to manage the transition between model development and deployment. In this second part, we will discuss how to manage the transition between model development and deployment.

Whirlin Labs now a MapR Converged Partner
We are happy to announce that we have joined the MapR Converged Partner Program. MapR...

Log Management Made Easy in Large-scale Distributed Systems
In the past, we approached log analysis as a single point managed by a system that was hosted on...

[View all posts](#)

Work with us

We strive to bring value and tangible results to our clients. Contact us for any inquiries you may have about what we can offer you and your organization.

[Get in touch](#)



Whirlin Labs

Partners Capabilities Blog Contact

Data & Decision Sciences.
Digital Transformation.
Emerging Technologies.
Scalable Infrastructure.

The world is more connected than ever before, resulting in an economy and a business environment that is increasingly volatile and unpredictable. Innovation has been touted as the key to surviving in such a risky climate, but others, organizations that try to implement innovation initiatives fail to see tangible results. There can be a range of reasons for failure, from unrealistic expectations to lack of resources and time required, to innovative approaches never executed.

We believe that innovation is a collaborative process, involving multiple stakeholders in order to achieve a common goal. Whirlin Labs has proven expertise in helping organizations develop their own competitive edge through the adoption of modern and emerging technologies.

Our partners

Latest articles

Agile Data Science (Part 2): PMML
In part one, we described various strategies to manage the transition between model development and deployment.

Whirlin Labs now a MapR Converged Partner
We are happy to announce that we have joined the MapR Converged Partner Program. MapR...

Log Management Made Easy in Large-scale Distributed Systems
In the past, we approached log analysis as a single point managed by a system that was hosted on...

[View all posts](#)

Work with us

We strive to bring value and tangible results to our clients. Contact us for any inquiries you may have about what we can offer you and your organization.

[Get in touch](#)



Whirlin Labs

Partners Capabilities Blog Contact

Data & Decision Sciences.
Digital Transformation.
Emerging Technologies.
Scalable Infrastructure.

The world is more connected than ever before, resulting in an economy and a business environment that is increasingly volatile and unpredictable. Innovation has been touted as the key to surviving in such a risky climate, but others, organizations that try to implement innovation initiatives fail to see tangible results. There can be a range of reasons for failure, from unrealistic expectations to lack of resources and time required, to innovative approaches never executed.

We believe that innovation is a collaborative process, involving multiple stakeholders in order to achieve a common goal. Whirlin Labs has proven expertise in helping organizations develop their own competitive edge through the adoption of modern and emerging technologies.

Our partners

Latest articles

Agile Data Science (Part 2): PMML
In part one, we described various strategies to manage the transition between model development and deployment.

Whirlin Labs now a MapR Converged Partner
We are happy to announce that we have joined the MapR Converged Partner Program. MapR...

Log Management Made Easy in Large-scale Distributed Systems
In the past, we approached log analysis as a single point managed by a system that was hosted on...

[View all posts](#)

Work with us

We strive to bring value and tangible results to our clients. Contact us for any inquiries you may have about what we can offer you and your organization.

[Get in touch](#)



The image shows three overlapping browser windows on a Windows desktop. The windows are from a local host at 192.168.1.162:2114.

Top-left window: A page titled "Matcha" (matcha). It contains text about Matcha's unique production method (shaded growth) and its consumption (suspended in liquid like water or milk). Below the text is a large image of two white bowls filled with bright green matcha powder. At the bottom, there is a section titled "tencha" with a "prev" button.

Top-right window: A page titled "tencha". It contains text about Tencha's production (shaded growth) and its consumption (suspended in liquid like water or milk). Below the text is a large image of a white bowl filled with bright green Tencha tea. At the bottom, there is a section titled "tencha" with "prev" and "next" buttons.

Bottom window: A page titled "tencha". It contains text about Tencha's production (shaded growth) and its consumption (suspended in liquid like water or milk). Below the text is a large image of a white bowl filled with bright green Tencha tea. At the bottom, there is a section titled "tencha" with "prev" and "next" buttons.



参考链接

- 十項讓長文章更容易閱讀的原則
- CSS文本模式Level 3
- Unicode双向算法（中文翻译）
- Unicode竖排形式
- CSS书写模式Level 3
- CSS书写模式Level 4
- CSS弹性盒式布局模块 Level 1
- CSS网格布局模块 Level 1
- 中文排版需求：中文排版所使用的文字

谢谢!

 <https://www.chenhuijing.com>

 jing74737871

 huijing

 @huijing

拉丁字体是由 Olivier Gourvat 设计的 Magnetic Pro

