THE RESERVE OF THE PARTY OF THE 3 =\_ 新时代CSS布局。 陈慧晶 | @hj\_chen | 6 jing74737871 100





jing74737871













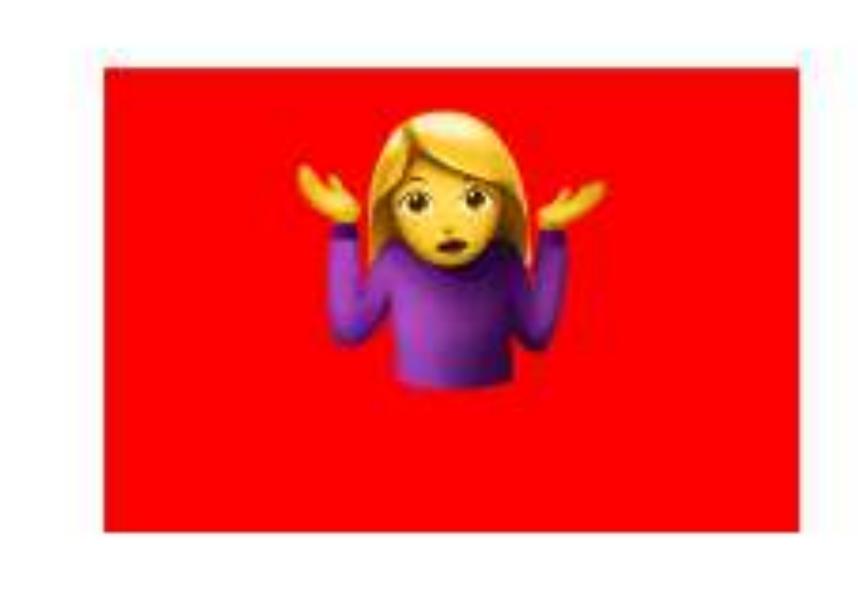






## 为什么纵向比横向难排?





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#### 中国第五届CSS开发者大会

#### 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、w3ctech、前端圈 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。

#### https://worldwideweb.cern.ch/browser/

演讲

- 陈慧晶 知名CSS专家 Novmo开始大体!
- 袁川 资深前端工程
- 张鑫旭 知名CSS专
- 陈在真 腾讯CDC测
- 勾三股四 阿里巴巴

#### 日程安排 日程将随时更新

08:30

签到

09:30

演讲者: 陈慧晶

新时代CSS布局



CSS布局经常是令前端开发者头痛的一块工作。但是近几年来,浏览器不断发 展,开始支持弹性盒子、网格布局、盒模型对齐等布局功能。这些CSS标准纯粹是为了应付网络布局而编写的。我们将深入了解这些新属性的特征,新时代 的布局技巧、例子及最佳实践。希望听众会有所启发,利用这些新的CSS属性 创造更符合浏览器本质的设计。

10:20



#### SAMBA

#### Macintosh Browser for the World-Wide Web

Version 1.03

Nicola Pellow Robert Cailliau

Programming Techniques Group. European Laboratory for Particle Physics

@ CERN

(This program is not in the public domain. See conditions in the Web)

hohen -- - lyox https://www.chenbuijing.com -- 77×32

Chen Hull Jing (pl of 4)

Jing

☐ textes

D usage-at

☐ ZTerm\_

nicles of a self-taught designer and developer.

11, 2019

ue of sharing our perspectives

ck Talks Blog

t got home from DevRelCon Tokyo, which was my first DevRel' rence ever. It was a really valuable experience ...

2019

cise in progressive enhancement

had more opportunities to work on the server-side of things s past obuple of months, specifically in Node.is, and...

is . Javascript

5919

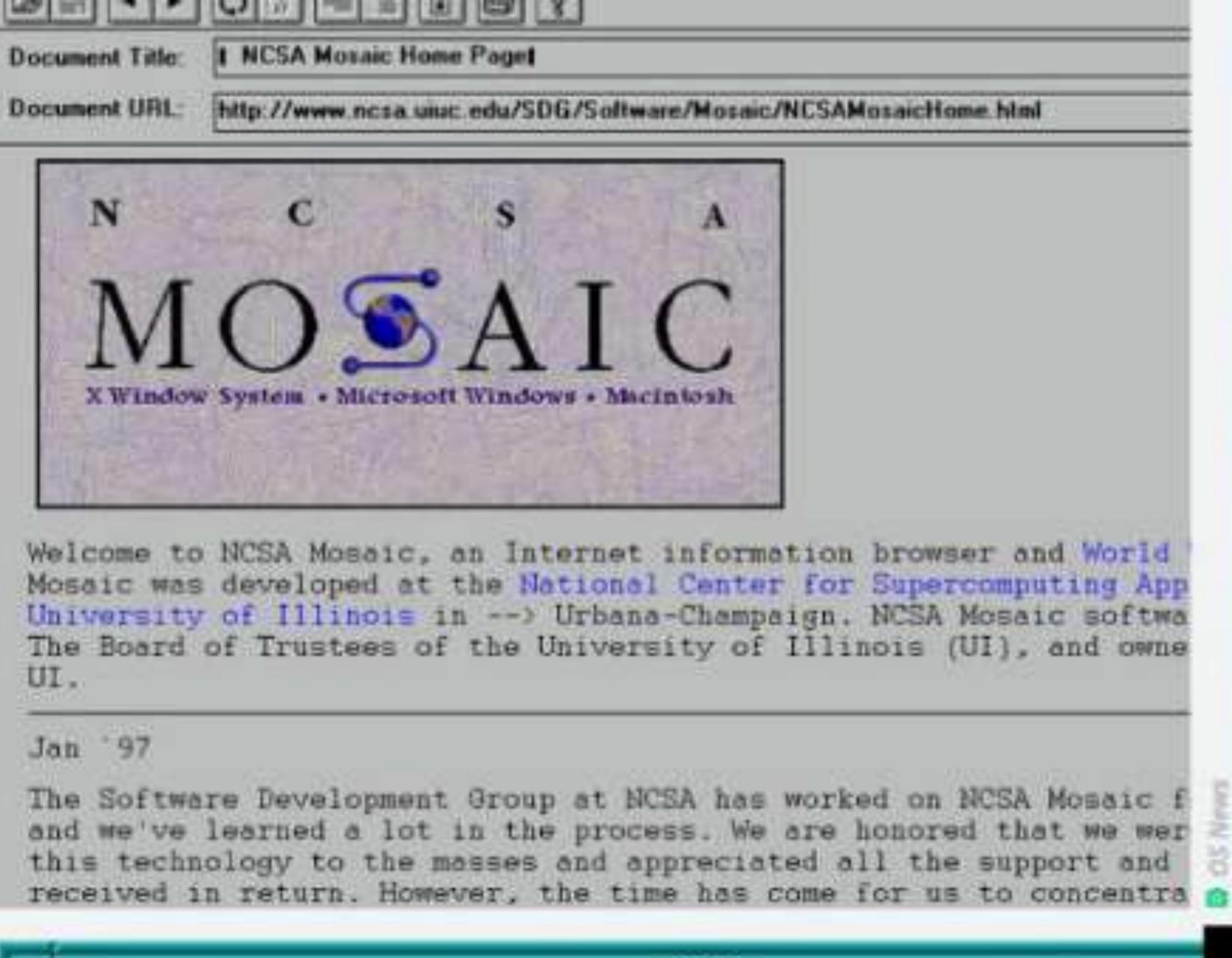
tomy of a pure ESS heart

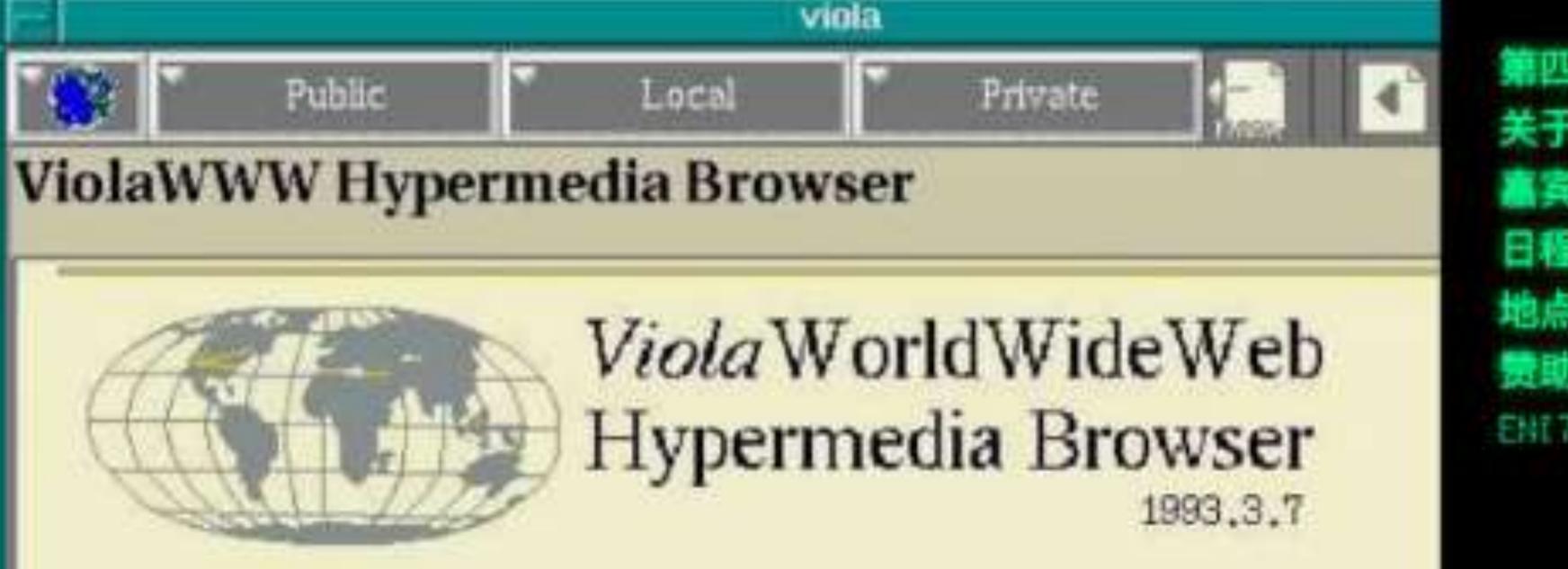
article was originally published on Bits and Rieces.

been helping to mentur a Coding Sirls initiative called 30 of CSS and one of the first projects ....

21, 2019

started with Nexmo's Number Insight APIs on Koa.js





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

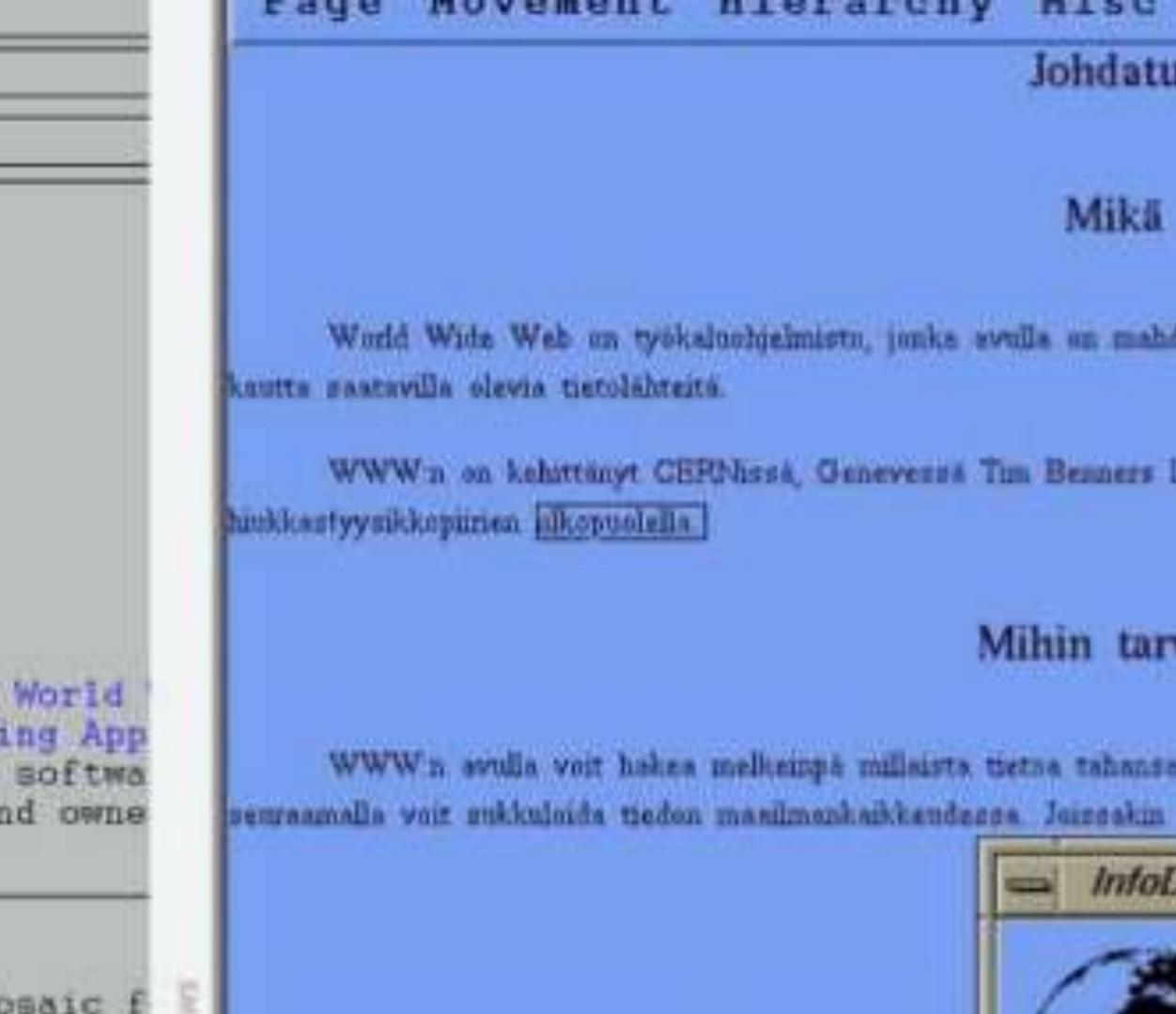
ViolaWWW is built using the Viola interactive media tool(kit).

See also: ToDo list.

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

Status

April 1993



Milin tarvitset WWW:....

Johdatus WWW:hen

Mikä on WWW?

Info

Wor

for the

WWW:n avoils voit bakes mellieinpa millaista tietaa tahansa. WWW asiakirjashin tallennetaan seurasmalla voiz sukkulmida tiedon manilmankaikkendessa. Josesakin kohdissa voit myös tehdä hakuja

WWW:n on kelattenyt GEPOhssa, Geneversa Tim Benners Leen johtune ryhma

World Wide Web on työkaluolijelmisto, jonka avolla on mahdollista toteuttaa sahkomen tietosa

InfoDialog\_popup

Tiedon etsută ci ole yhte belppoa kuin esimes WAIS-tietokannat ovet saatavilla.

直室 [8] 日程(土) 地点[5] 景助商[5]

四] 中国第五届355大会 93.30 深圳

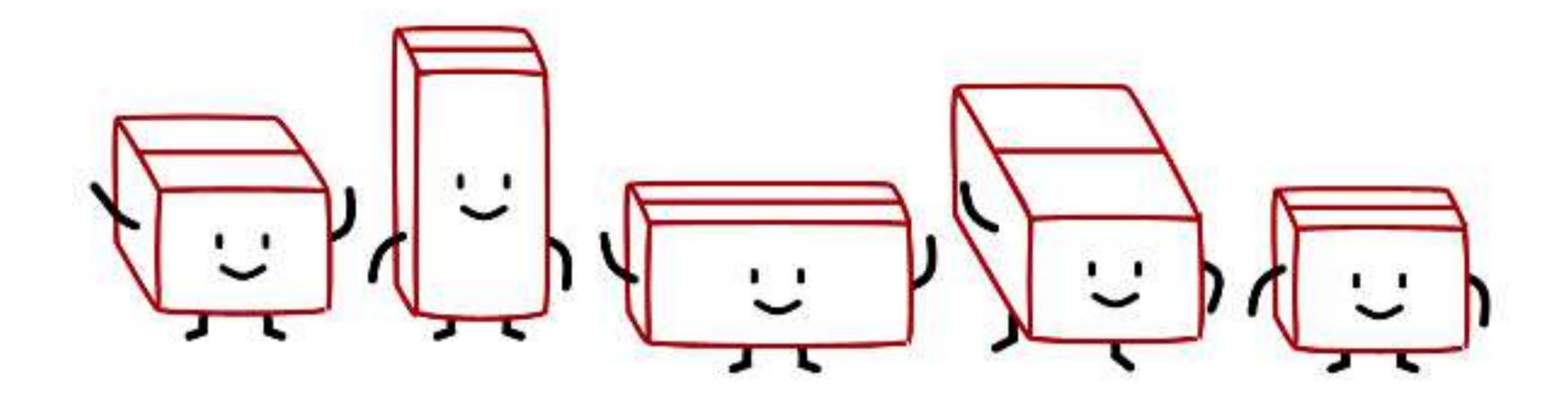
中国第五届GSS开发者大会于2018年GS月GG日在深圳举办。由HGC、WGu tech、前 办。本次大会我们将邀请行业内知名讲师。与大家共聚深圳、畅聊(55)。

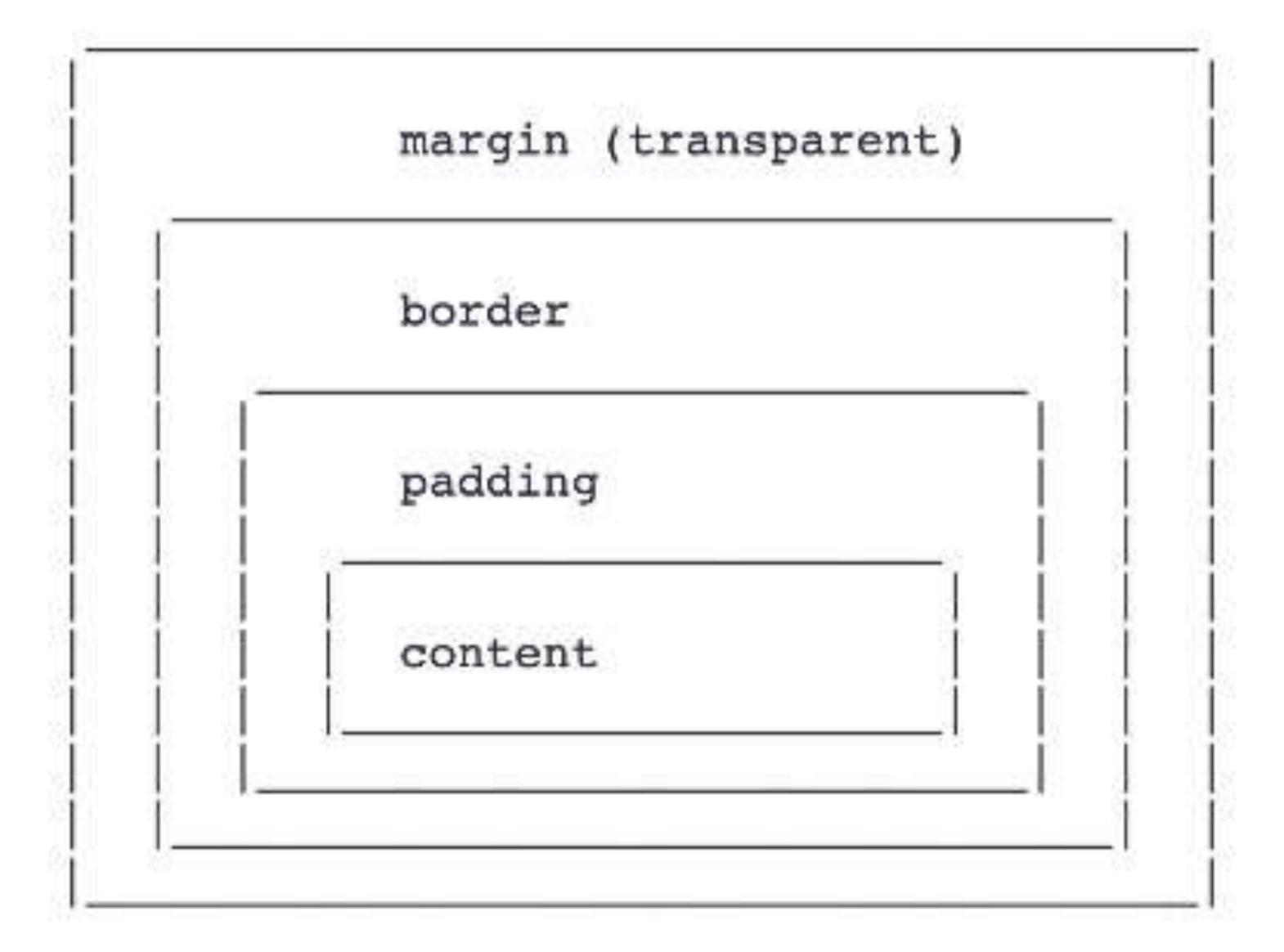
立即抢票131 关注"前端圈"公众号。个人中心查看门票

演讲嘉宾 与大牛一起探讨

陈慧晶 知名CSS专家。Herro开发大使 大漢 知名 55 专家、阿里巴巴前端技术专家

專川 资深前端工程师。pass-doodle 作者。 欣赏他的创意[10]

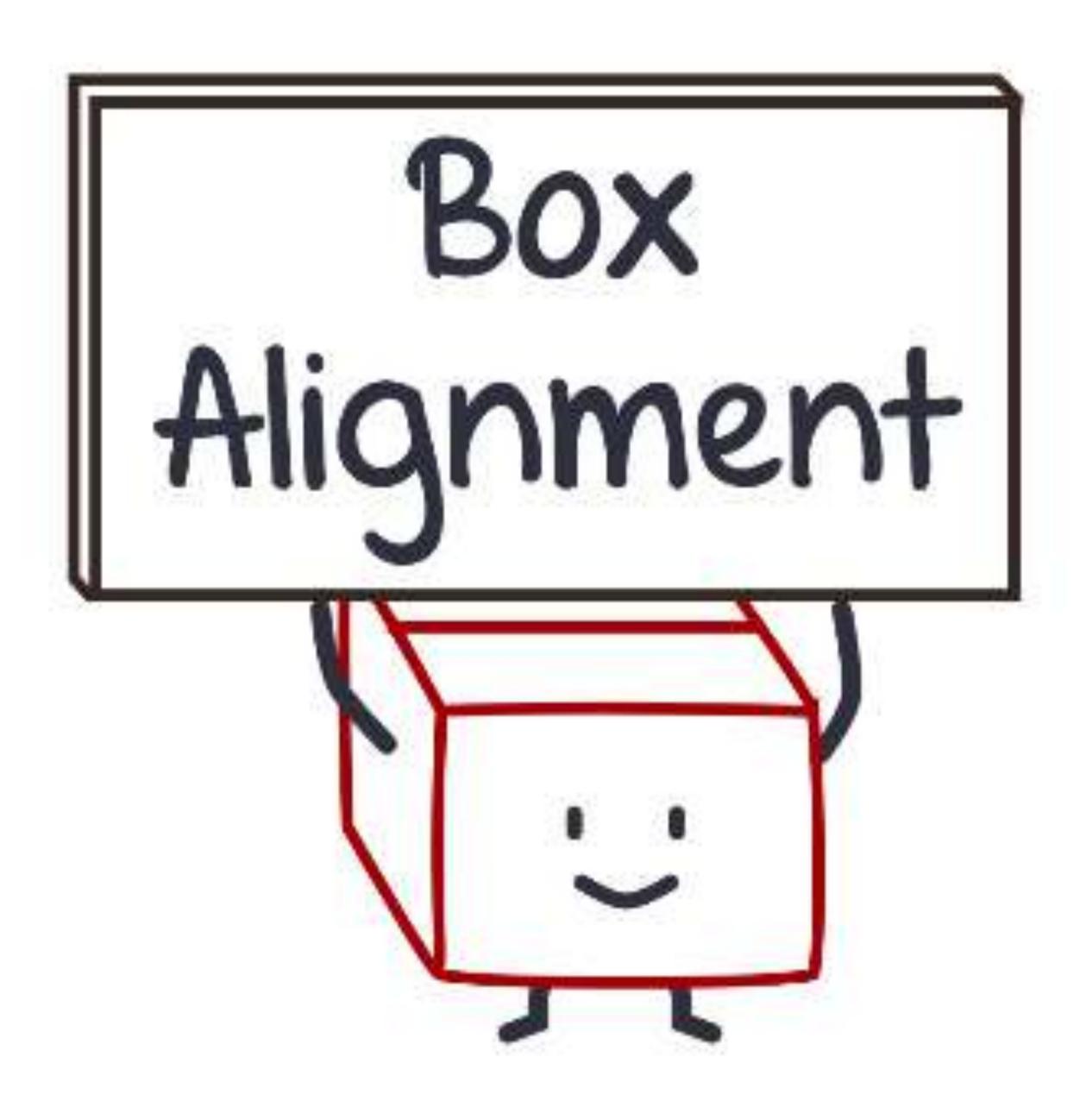


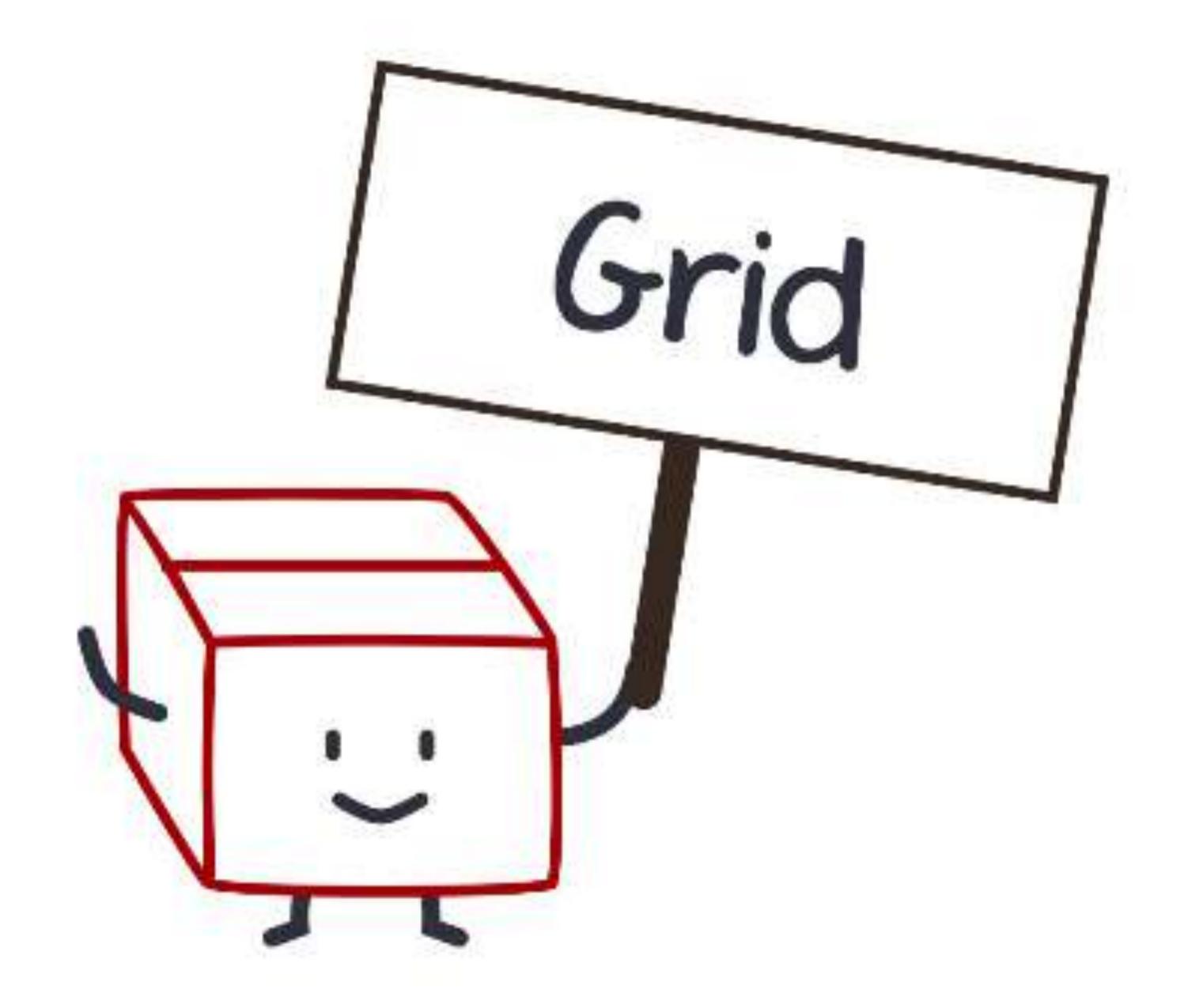


element width

box width



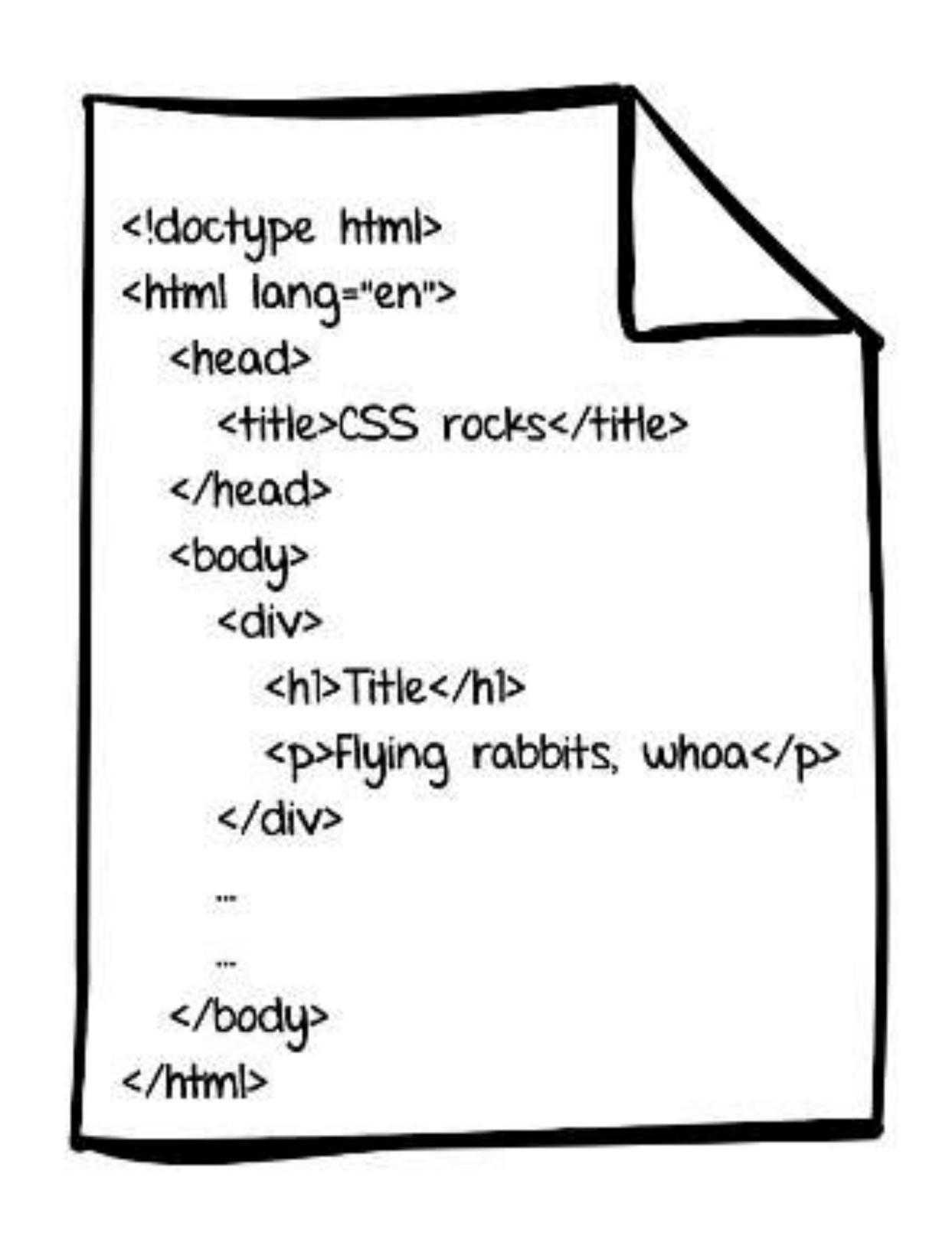


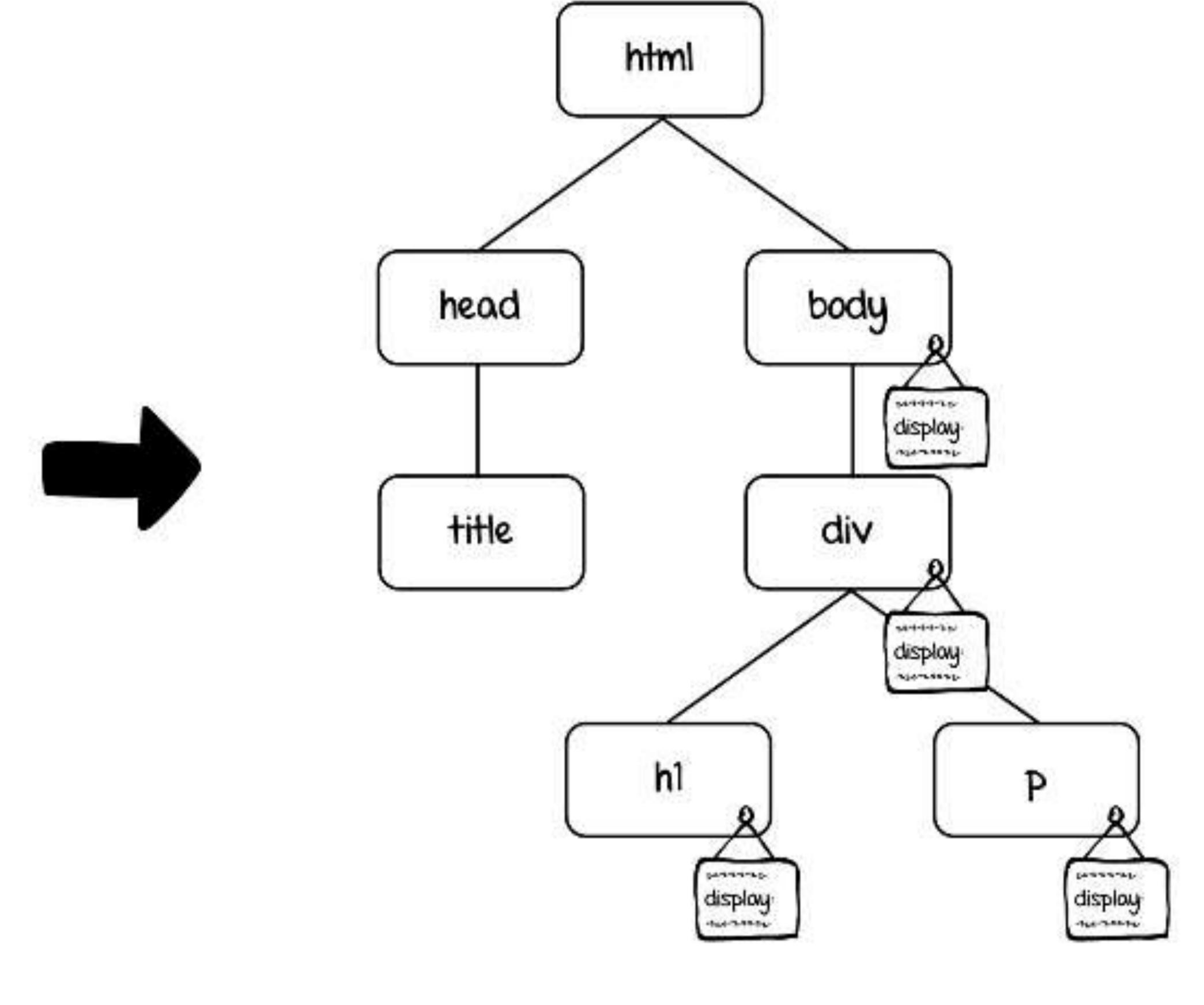


## CSS布局部队



等属性...





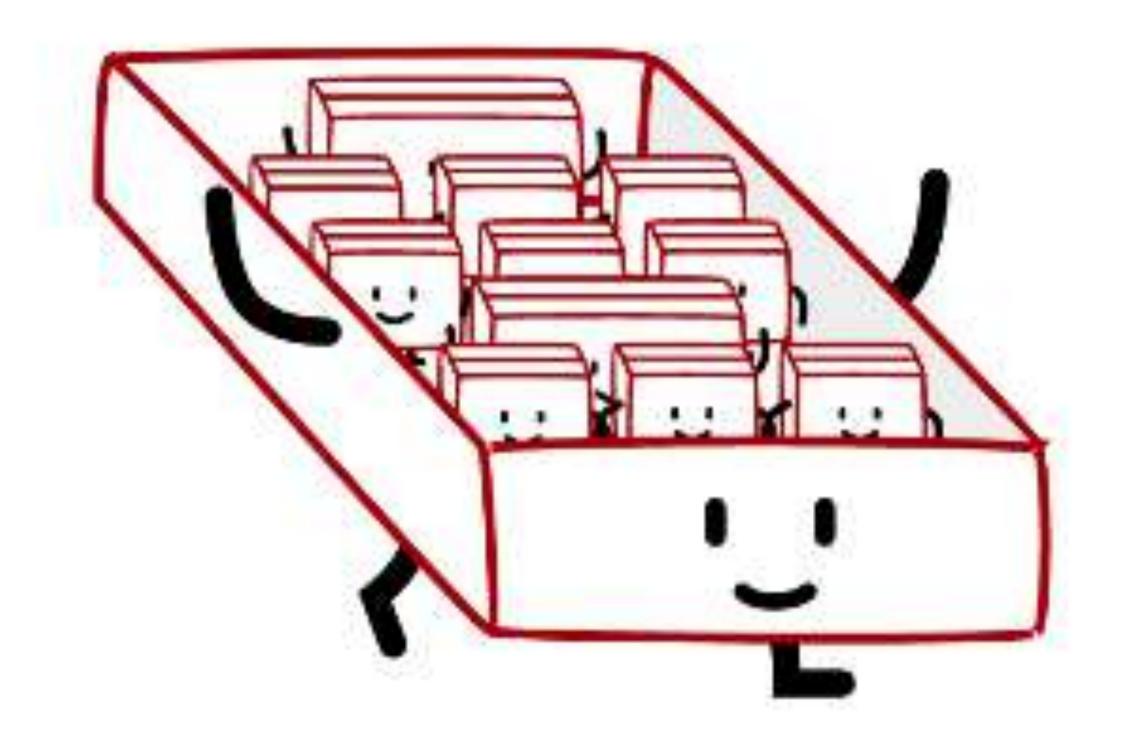
#### CSS显示模块

CSS Display Module Level 3

#### 内部显示类型

Inner display type

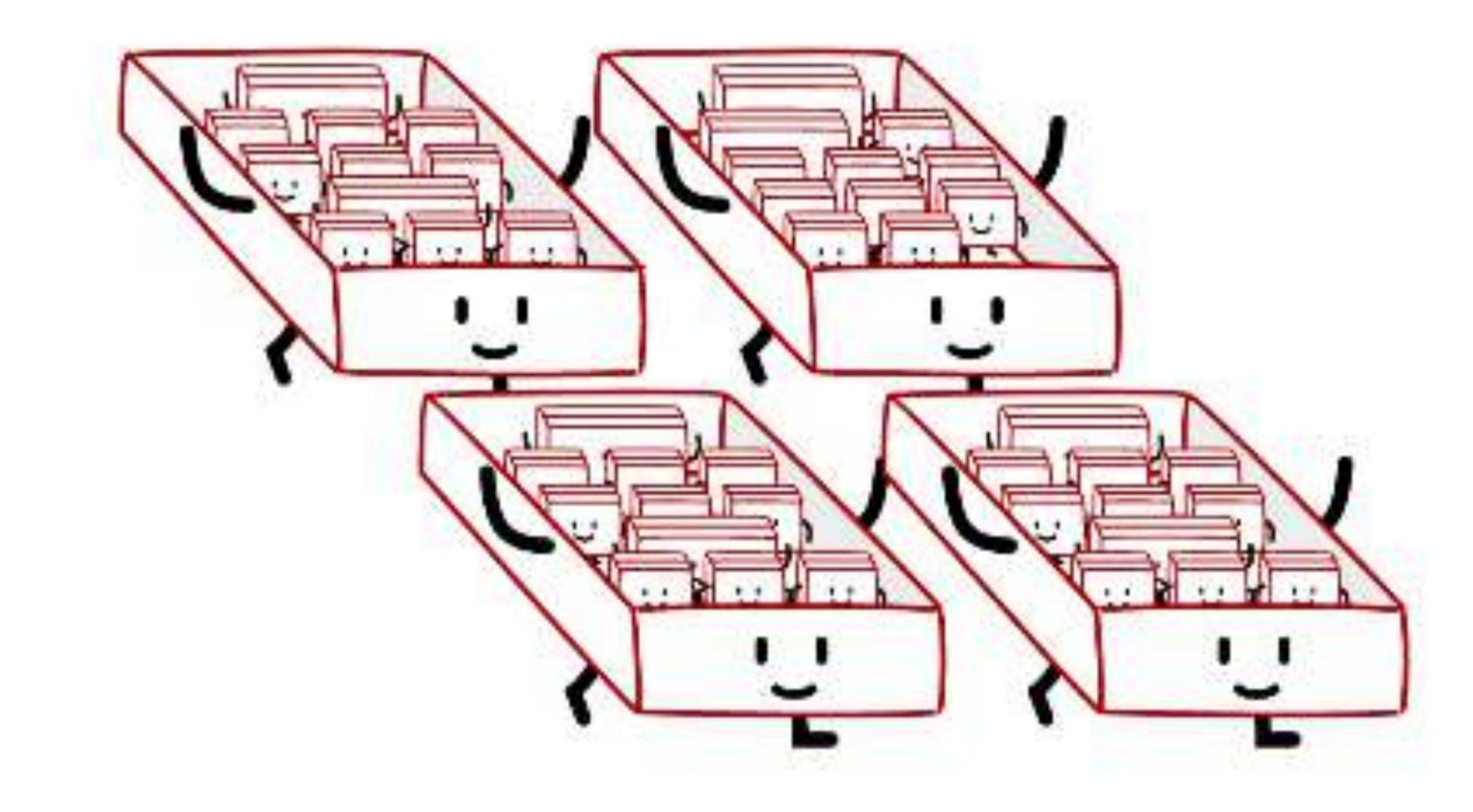
定义了元素内子元素的布局方式



#### 外部显示类型

Outer display type

定义了元素怎样参与流式布局的处理



简写 Short display	全称 Full display	生成盒子 Generated box
none		subtree omitted from box tree
contents		element replaced by content in box tree
table	block table	block-level table wrapper box containing table box
inline-table	inline table	inline-level table wrapper box containing table box
list-item	block flow list-item	block box with additional marker box
inline list-item	inline flow list-item	inline box with additional marker box
run-in	run-in flow	run-in box (inline box with special box-tree- munging rules)
flex	block flex	block-level flex container
inline-flex	inline flex	inline-level flex container

简写 Short display	全称 Full display	生成盒子 Generated box
ruby	inline ruby	inline-level ruby container
block ruby	block ruby	block box containing ruby container
grid	block grid	block-level grid container
inline-grid	inline-grid	inline-level grid container
block	block flow	block-level block container
flow-root	block flow-root	block-level block container that establishes a new block formatting context (BFC)
inline	inline flow	inline box
inline-block	inline flow-root	inline-level block container

#### Flex简写及关键字

[ <'flex-grow'> <'flex-shrink'>? || <'flex-basis'> ]

flex: initial flex: 0 1 auto

不能生长,但是缺乏空间时可以缩小

flex: 1 1 auto

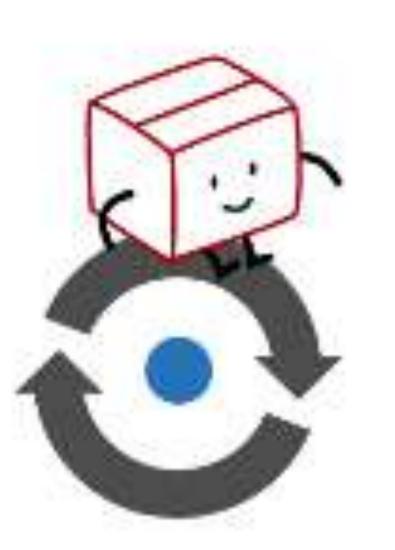
依照可用空间平均伸缩

flex: none flex: 0 0 auto

完全不伸缩,简直是僵化

flex: <positive-number> flex: <positive-number> 1 0 能屈能伸,属性值断定生长的比例

## 自动margin是你的好友



```
.automargin {
  display: flex;
.automargin div {
  margin: auto
```

## 自动margin是你的好友

首页 动态 话题 活动 登录·注册

```
.navbar ul {
.navbar li:last-child {
  margin-left: auto;
```

## 为什么块格式自动margin不垂直居中元素?

If both margin-left and margin-right are auto, their used values are equal, causing horizontal centring.

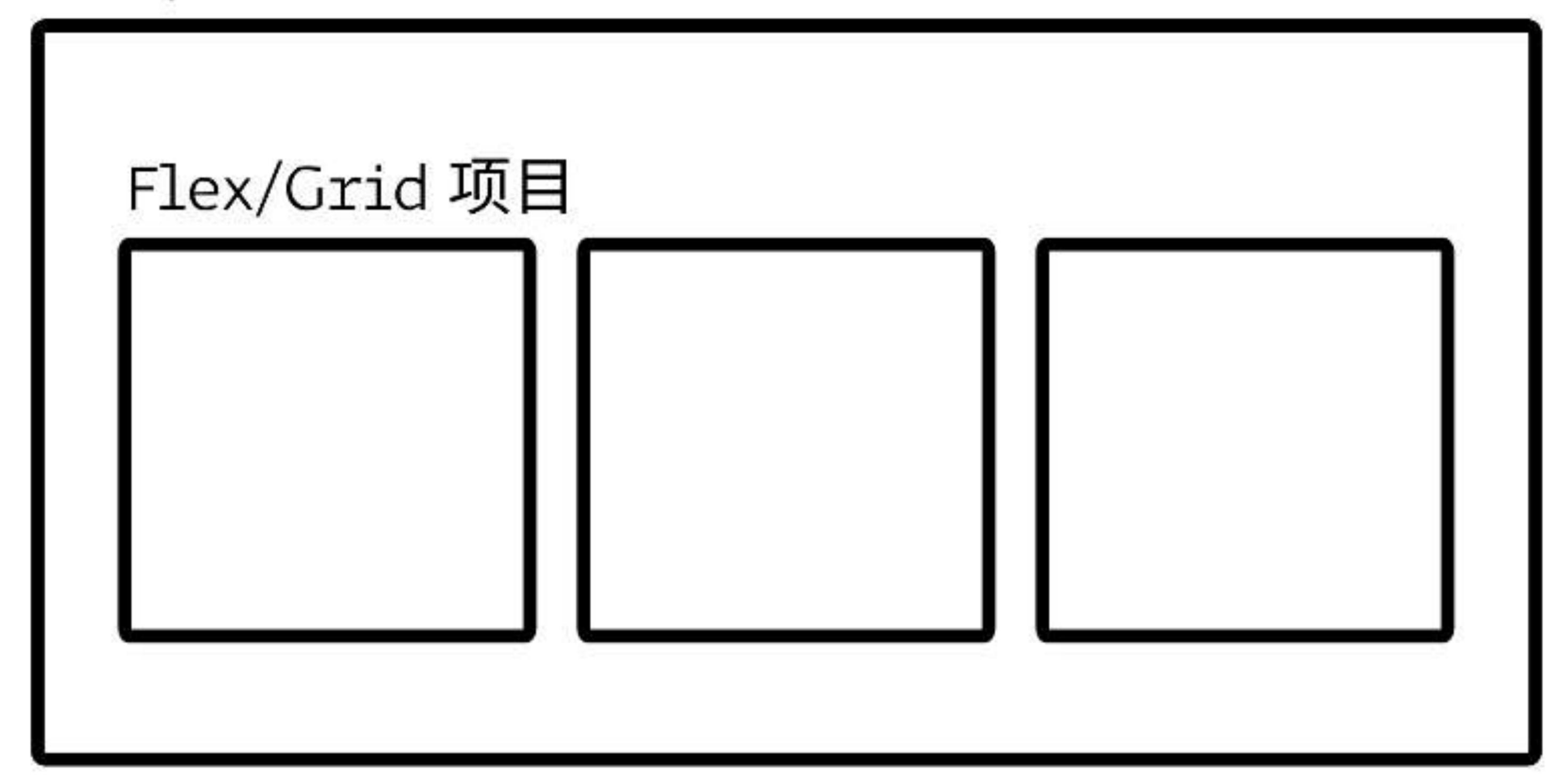
—CSS2 Visual formatting model details: 10.3.3

If margin-top, or margin-bottom are auto, their used value is 0.

—CSS2 Visual formatting model details: 10.6.3

## 容器一项目的「父子」关系

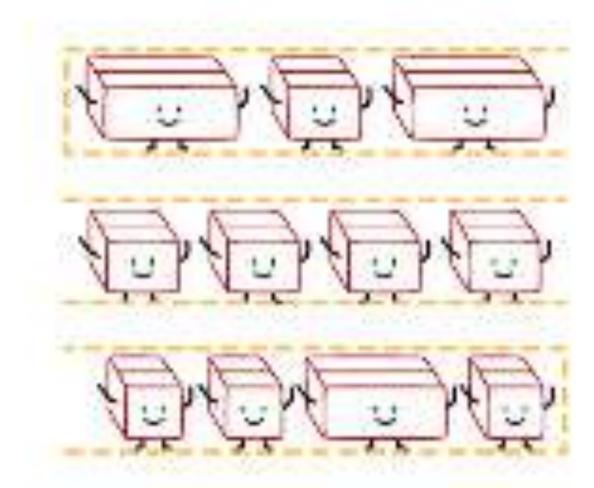
Flex/Grid 容器



### CSS盒式对齐模块

CSS Box Alignment Level 3

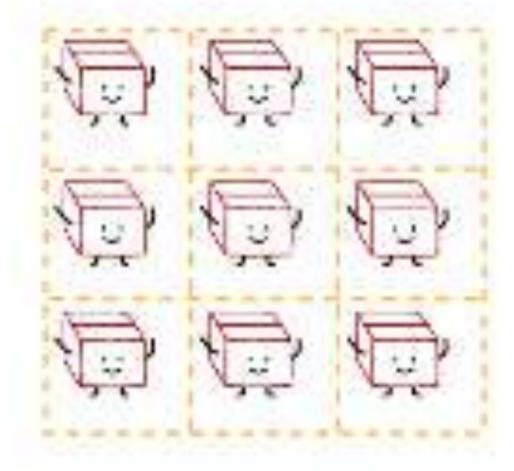
#### Flexbox



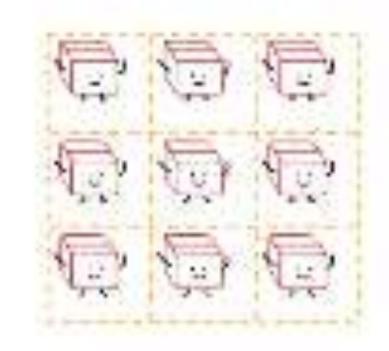
- align-content
- justify-content
- align-items
- align-self

justify-items/justify-self 在flex项目 是用不上的。

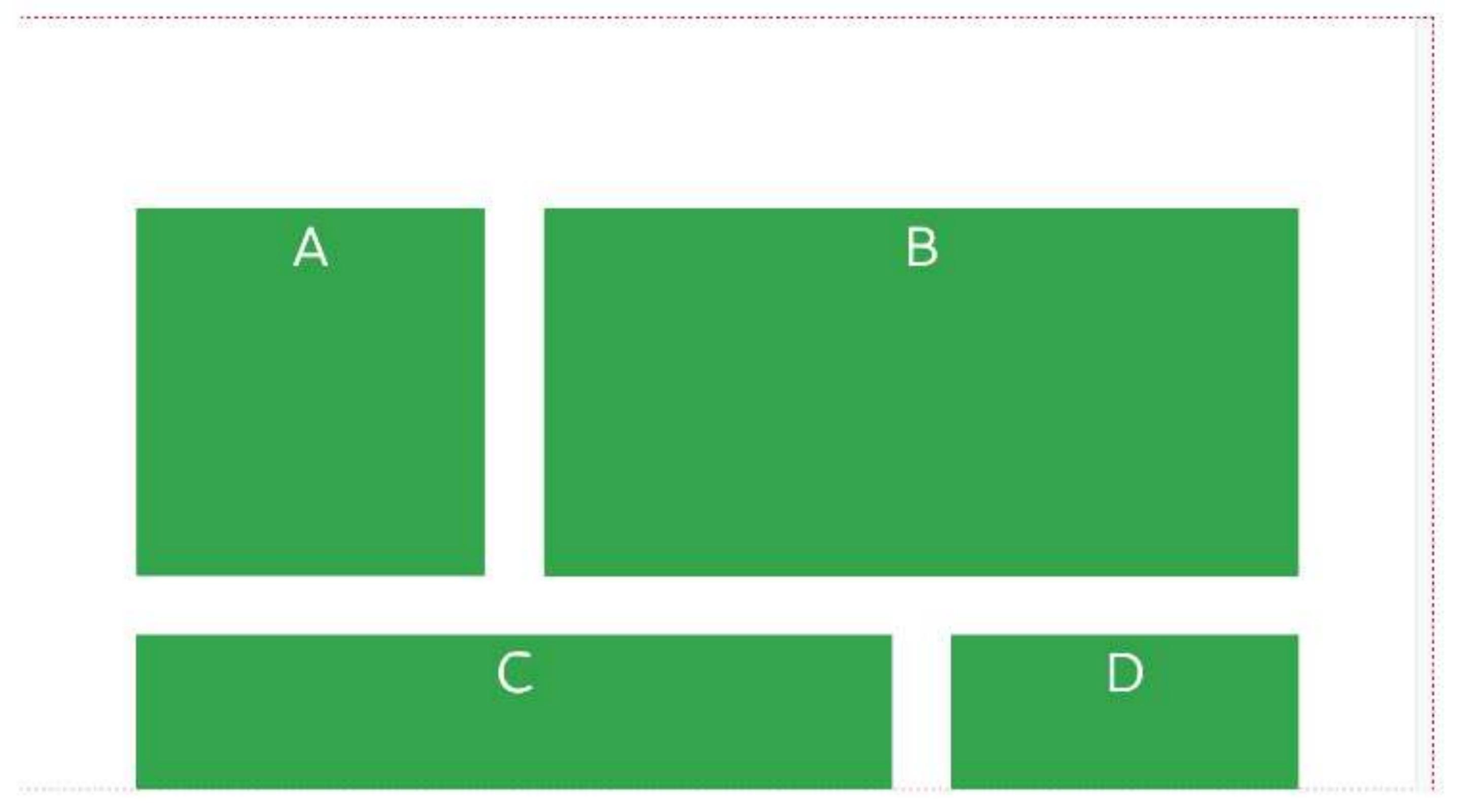
#### Grid



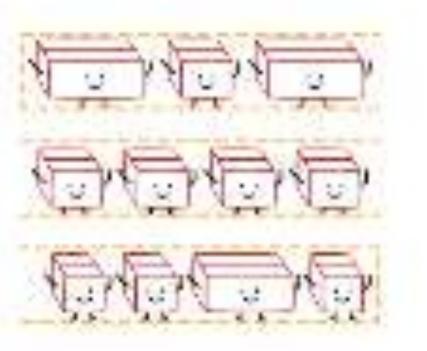
- align-content
- justify-content
- align-items
- align-self
- justify-items
- justify-self



### justify-content 和 align-content



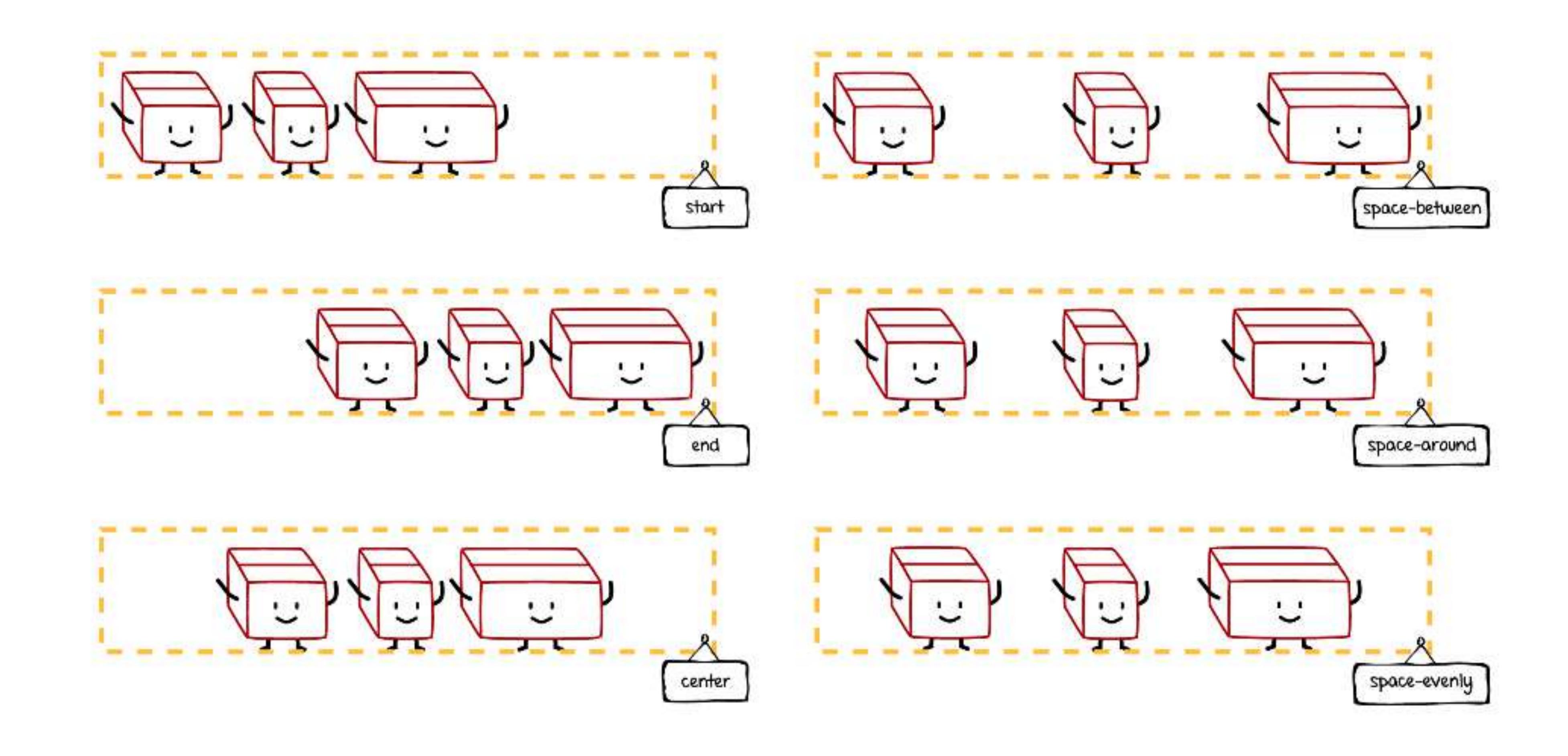
```
.gridcontent {
  justify-content: center;
  align-content: end;
  display: grid;
  grid-template-columns: repeat(3,
25%);
  grid-template-rows: repeat(3,
20%);
  grid-gap: 1em;
  grid-template-areas:
    "a b b"
    "a b b"
```

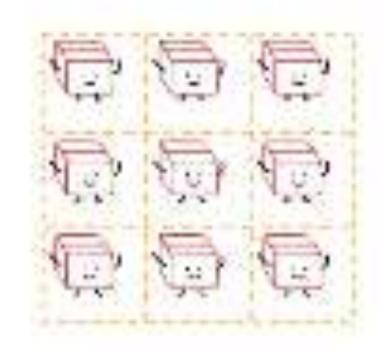


#### justify-content 和 align-content

	2=	3=	4四	5. <b>T</b> 1	677	7±	8/\
9九	10+	11-	12+==	13+E	14十四	15+±±	16十六
				17+t	18十八	19十四	20二十

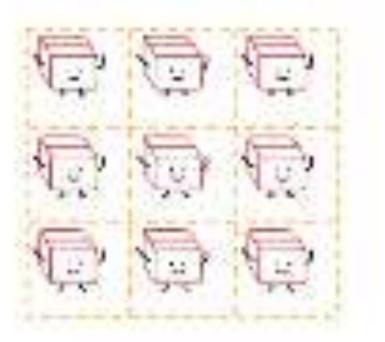
```
.flexcontent .wrapper {
 display: flex;
 justify-content: flex-end;
 align-content: center;
 height: 70vh;
.flexcontent .box {
 height: 3.5em;
 width: 4.5em;
 border: 1px solid;
```



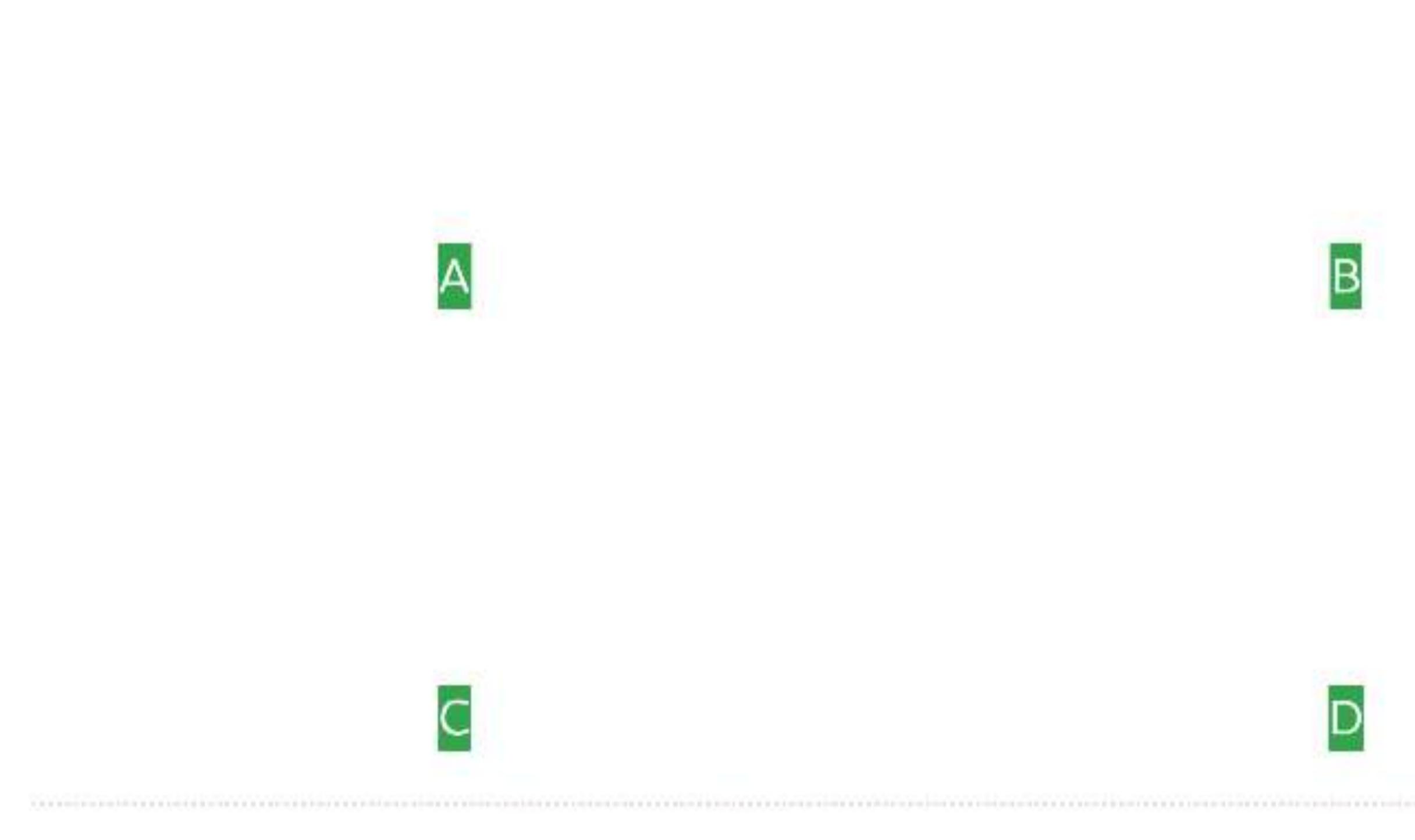


### justify-self和align-self

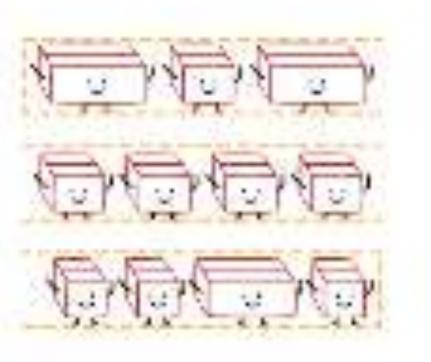
```
grid-area: a;
 padding-top: 0.5em;
align-self: ;
.gridself .box.b {
 grid-area: b;
  padding: 1em;
 align-self: start;
 //justify-self: start;
.gridself .box.c {
```



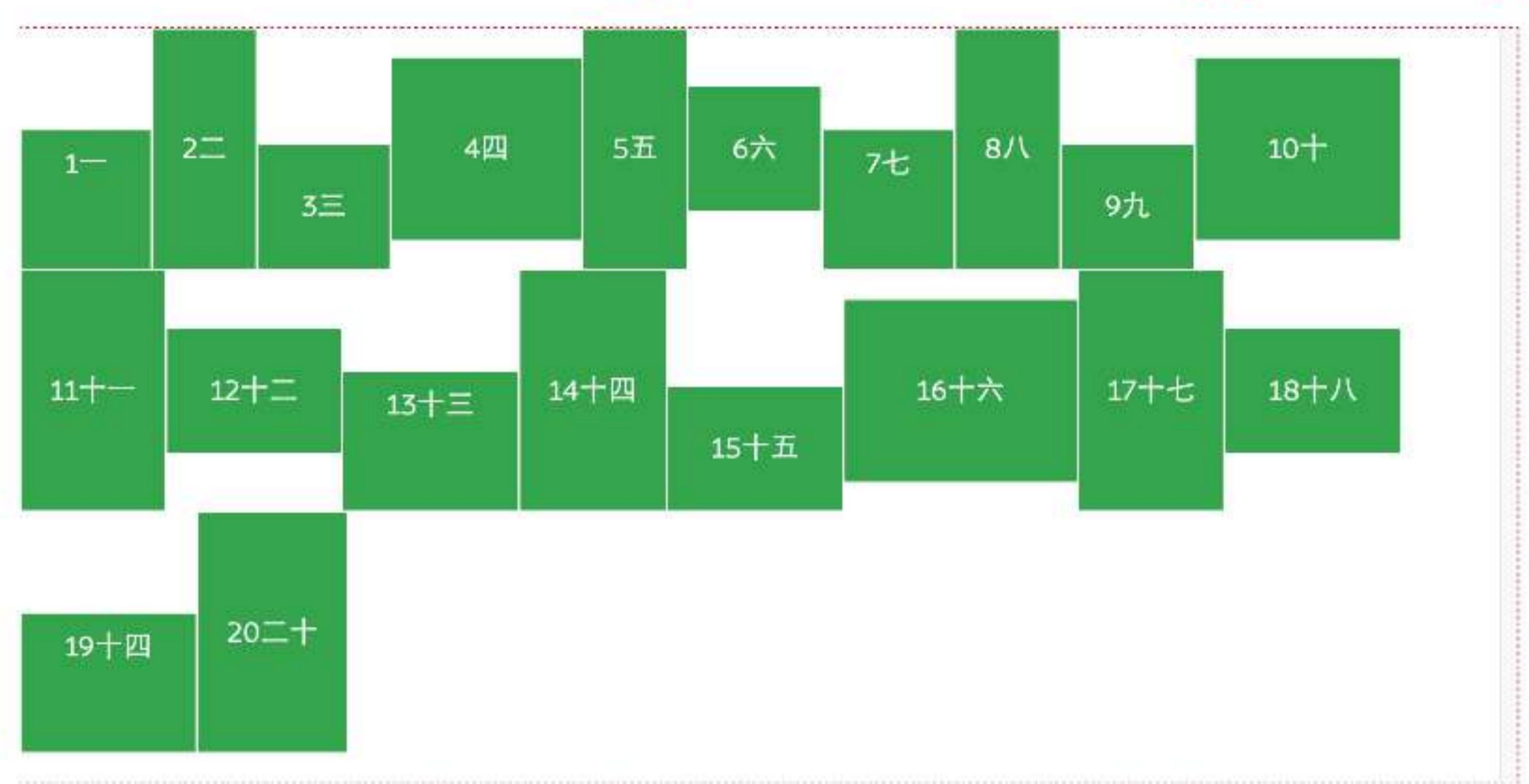
### justify-items 和 align-items



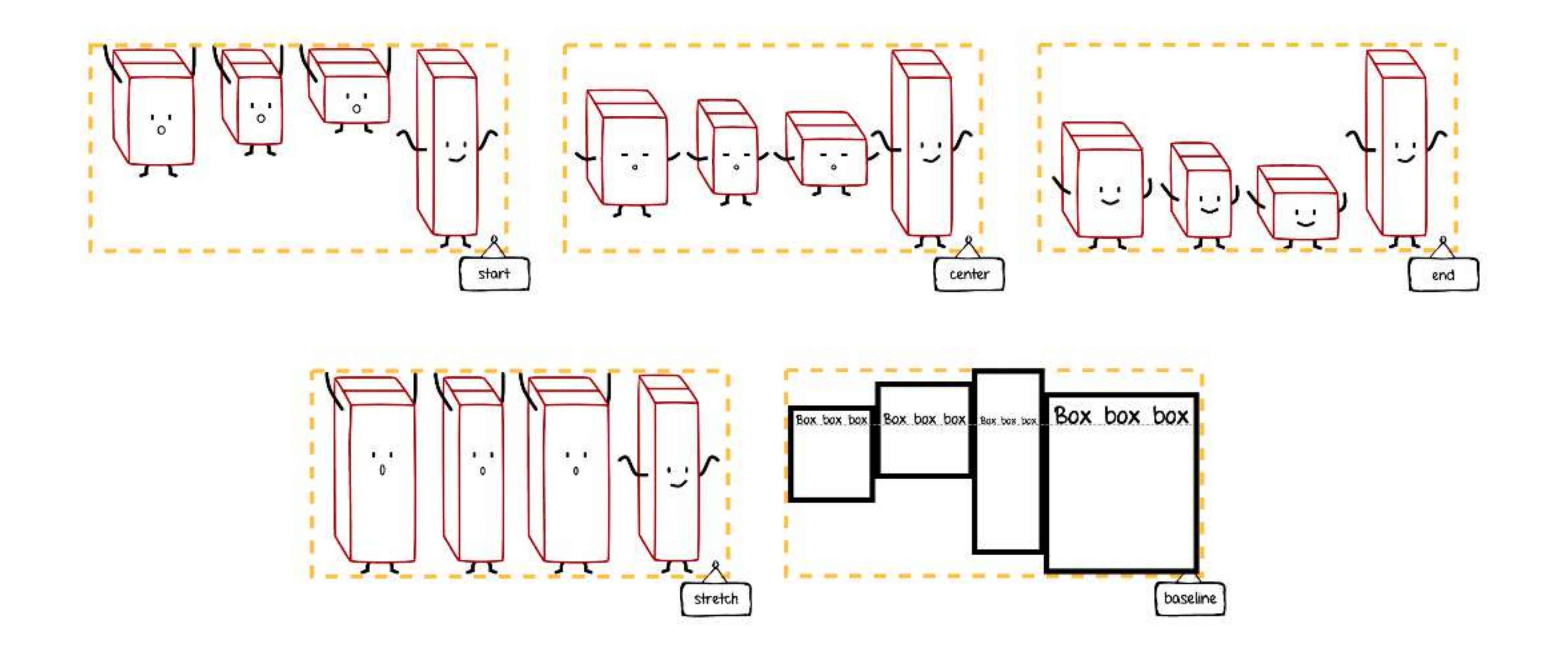
```
.griditems {
  justify-items: center;
 align-items: end;
 display: grid;
 grid-template-columns:
repeat(4, 1fr);
 grid-gap: 1em;
 grid-auto-rows: calc(25% -
1em);
 grid-template-areas:
```



### align-items 和 align-self

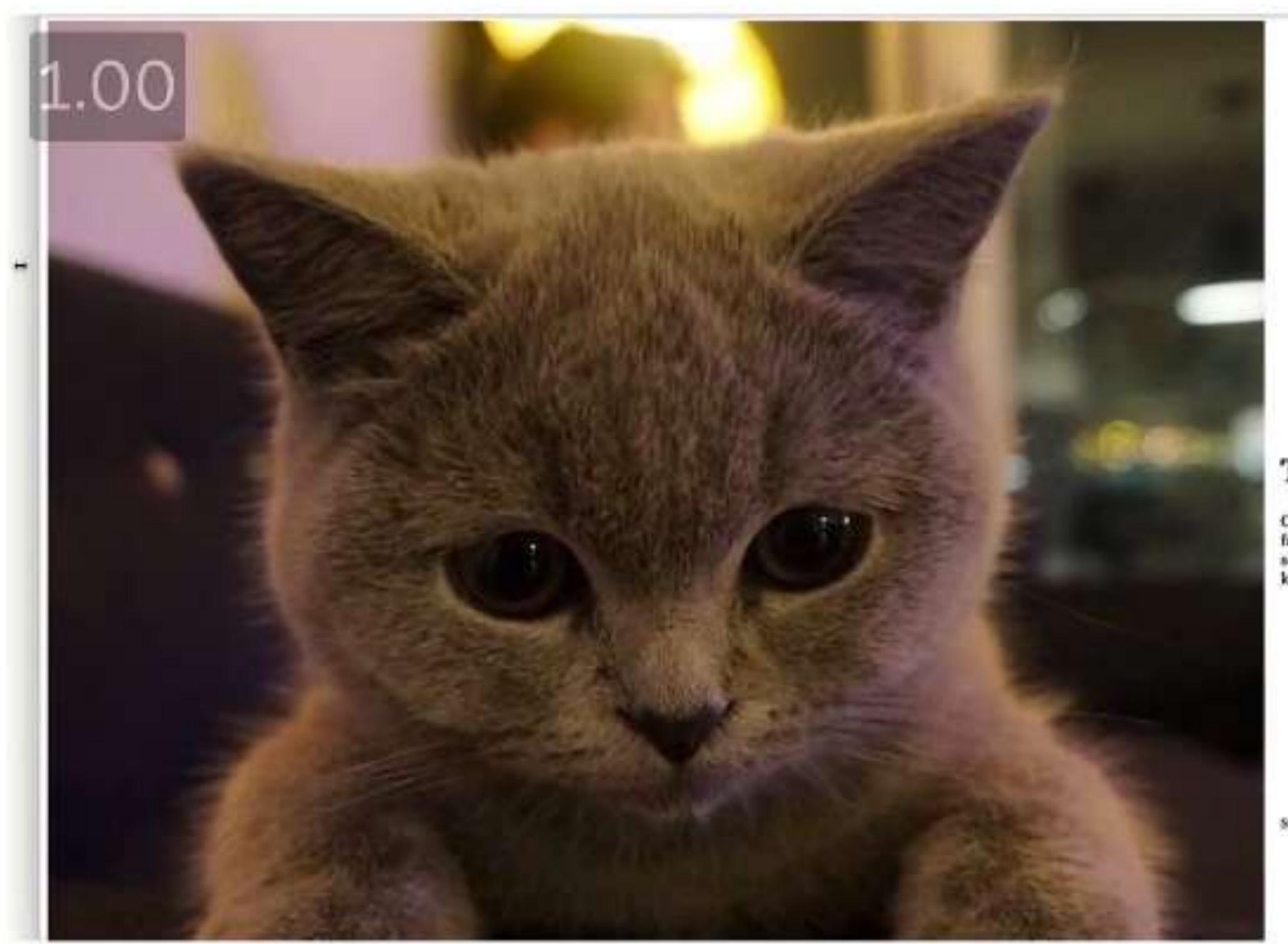


```
.flexitems .wrapper {
  display: flex;
  align-items: baseline;
.flexitems .box:nth-
child(2n+1) {
  padding: 0.5em 1.5em 3em;
  align-self: end;
.flexitems .box { border: 1px
```



## 百分比的局限

#### 一致性的伸缩率



#### The cutest kitten

Cats are very unique creatures that we've grown to love and enjoy. Because they're so fascinating, it's not surprising that there are many facts about our domestic feliuss that some may be unaware of. Here we've compiled a list of some facts about cats and kittens that you may not have known!

- L. Kittens Can't See & Hear Fully Until 2-3 Weeks Old
- 2. Kittens Sleep Around 18 Hours Per Day
- 3. Newborn Kittess Purr
- 4. Kittens Have a Strong Sense of Smell
- 5. Kittens Can Be Right or Left-Pawed
- 6. Kittens Can Fit Their Bodies Anywhere They Can Fit Their Heads
- 7. A Kitten's Whiskers Are As Long As Their Bodies Are Wide
- 8. All Kittens Are Born With Blue Eyes
- 9. Kittens Have 26 Teeth
- 10. The Average Kitten Litter is 1-9 Kittens

Scorce: https://ibeartnots.com/10-things-you-didnt-know-about-kittens/

### 以内容为主的尺寸计算方式

(content-based sizing)

#### 外部尺寸

Extrinsic sizing

以元素的上下文为主,忽视元素内容

这是个含有内容的块格式盒子。 我们可以利用它来理解 extrinsic sizing的原理。我们 把它的宽度设为700px,把高度 设为300px。当内容超出可用空 间时,就会导致内容溢流的现 象。

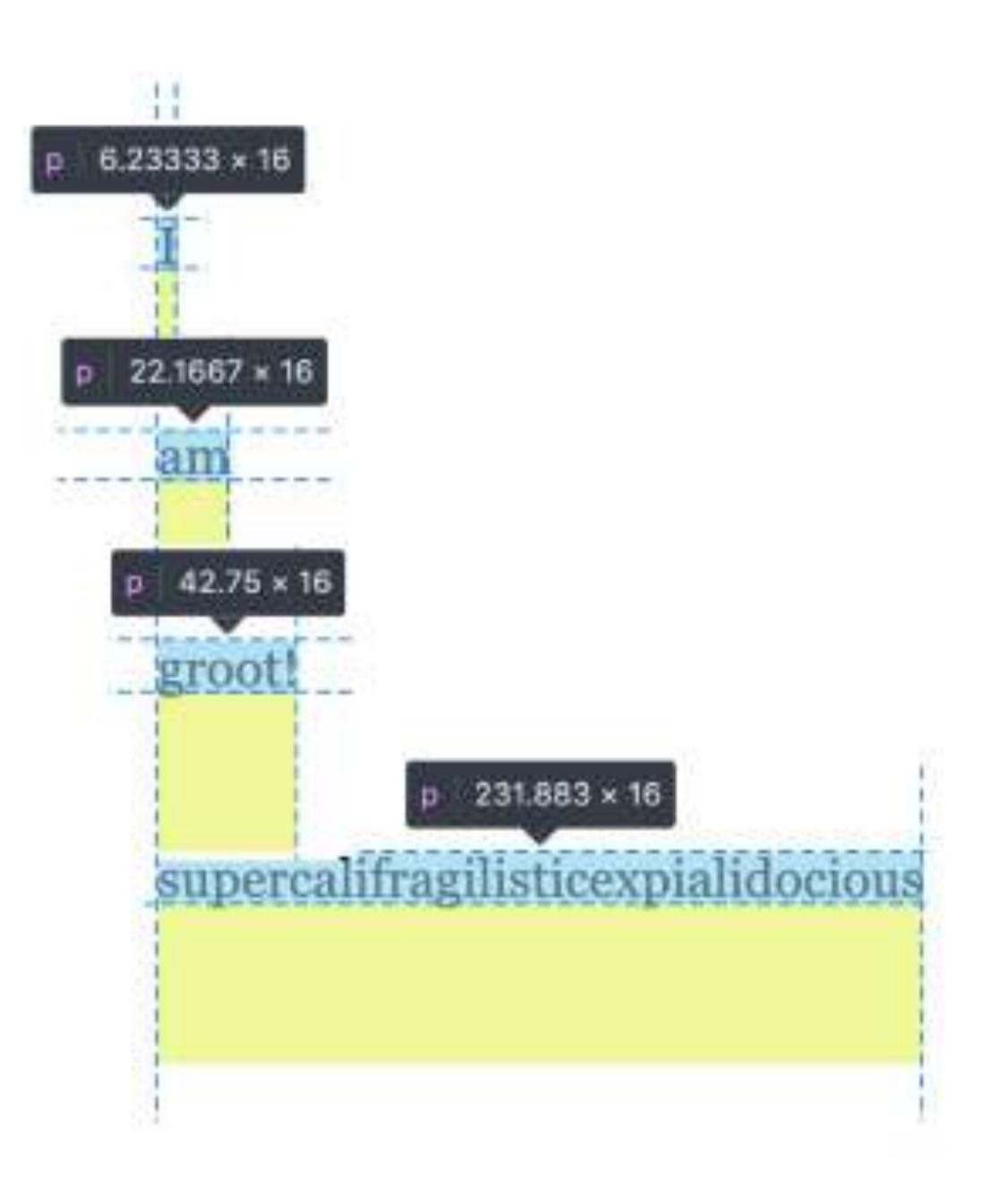
#### 内部尺寸

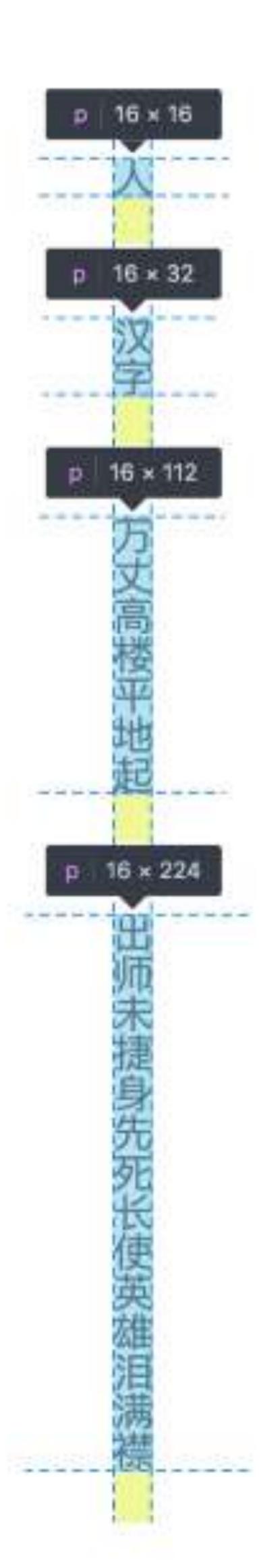
Intrinsic sizing

以元素的内容为主,忽视元素上下文

用mincontent 为width 取值

用max-content为width取值





b-

### 独特的灵活性尺寸

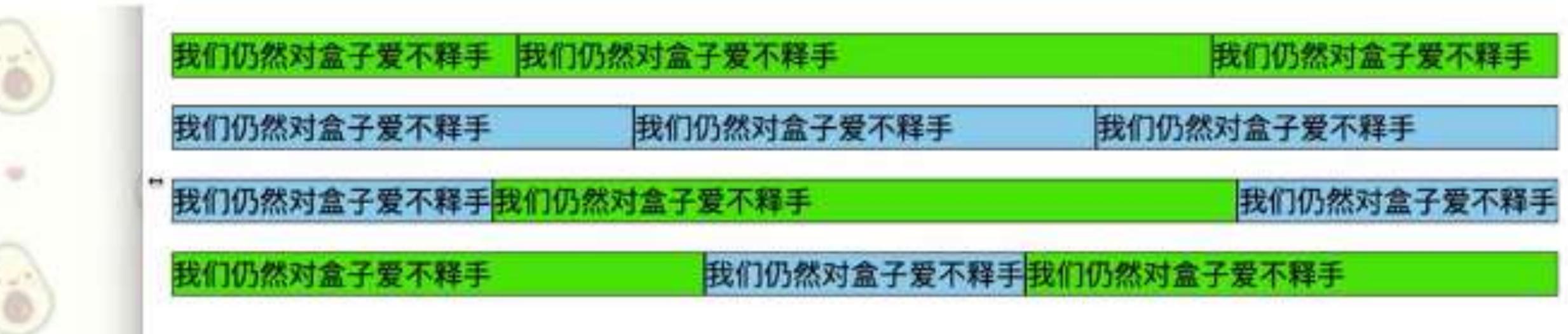
(flexible sizing)

- fr
- auto
- minmax()
- fit-content()

fit-content(400px)等于minmax(auto, max-content), 但是终宽度不能超出400px。

## fr对比auto

绿色: fr, 蓝色: auto





## max-content对比固定width

灰色: max-content, 粉红色: 400px



## fit-content对比minmax()

橙色: fit-content(200px), 黄色: minmax(200px, 400px)



#### 百分比尺寸

#### 灵活性尺寸



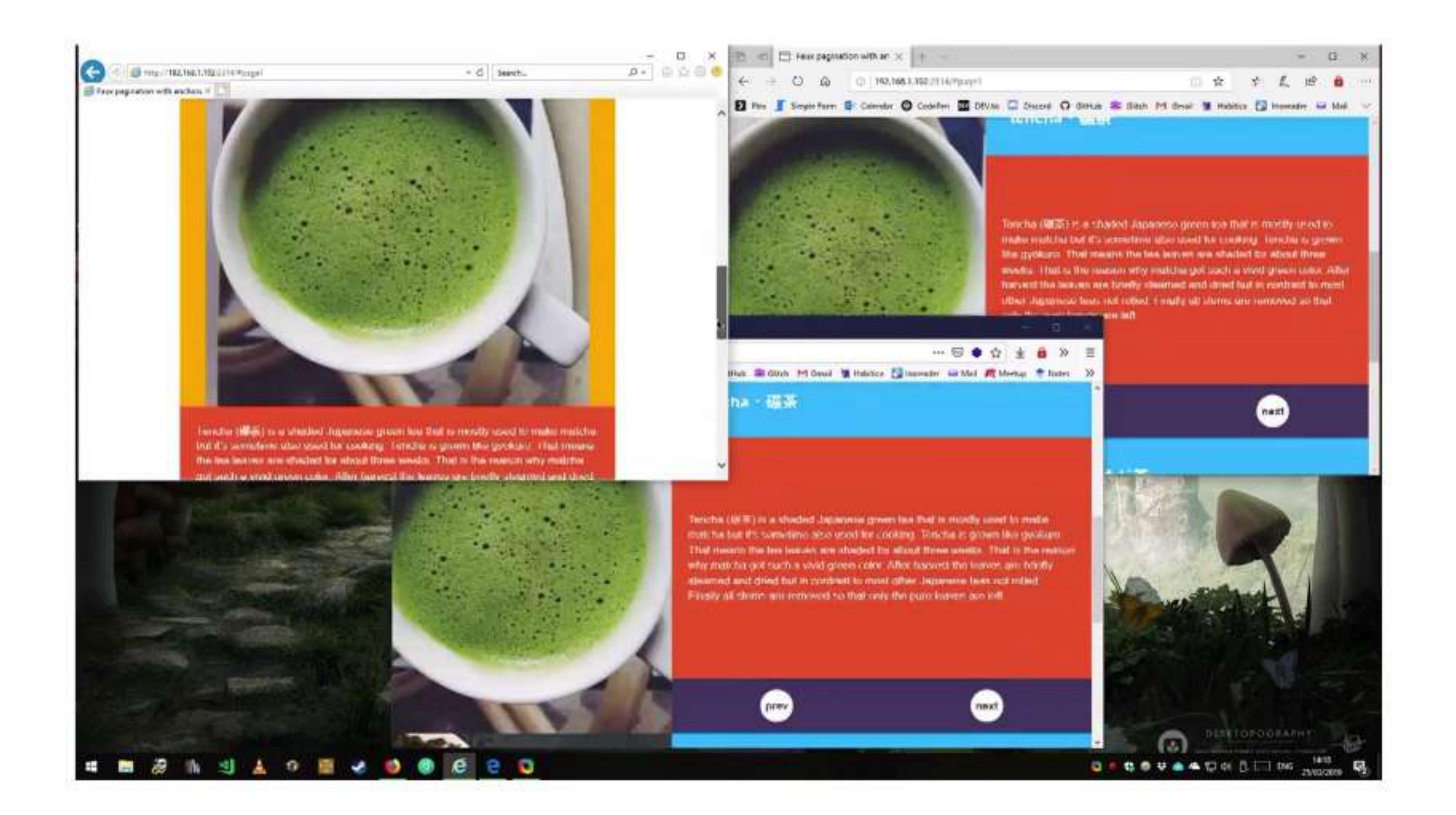


How Florence and the Machine singer overcame personal demons to write her first-ever Number One album and bring it on the road for her biggest tour yet

### 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 */
```





#### dowebsitesneedtolookexactlythesameineverybrowser



Tools

Settings

All Images Maps Videos News More

About 2,620 results (0.32 seconds)

## Do websites need to look exactly the same in every browser? dowebsitesneedtolookexactlythesameineverybrowser.com/ ▼

#### Do Websites Need to Look Exactly the Same in Every Browser? | The ...

www.peachpit.com/articles/article.aspx?p=1394622 •

Sep 9, 2009 - When I registered the domain

dowebsitesneedtolookexactlythesameineverybrowser.com, I set out to design the appropriate answer in a simple ...

#### dowebsitesneedtolookexactlythesameineverybrowser.com on reddit ...

https://www.reddit.com/.../dowebsitesneedtolookexactlythesameineverybrowser.com/ ▼ [2007-12-11] Do websites need to look exactly the same in every browser? [programming]comments



MO!

### 参考链接

- WorldWideWeb 浏览器
- Before Netscape: the forgotten Web browsers of the early 1990s
- Cascading Style Sheets, level 1 (W3C 推荐标准 17 Dec 1996)
- CSS属性列表
- CSS显示模块 Level 3
- CSS弹性盒式布局模块 Level 1
- CSS2.1: 10 视觉格式化模型细节
- CSS盒式对齐模块 Level 3
- CSS Intrinsic & Extrinsic Sizing Module Level 3
- Cascading Web Design with Feature Queries
- 渐进增强布局

# 训制 明



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拉丁字体是由 Olivier Gourvat 设计的 Magnetic Pro