CSS专家带你剖析

Web终端适配主流方案

主讲: 大漠

讲者简介





大漠

- 手淘前端技术专家
- 10年+前端开发经验,W3cplus 创始人, CSS领域专家
- 目前主攻智能UI的研发,在HTML、CSS 和A11Y 领域有较深的研究
- 著有《图解CSS3:核心技术与案例实战》





- 01 / Web布局的发展史以及主流的布局方案
- 02 / Rem 和 VW 适配方案的设计思路和利弊
- 03/未来值得期待的布局或适配方案



Web布局的发展史以及 主流的布局方案

Web Design 1.0





World Wide Web

The WorldWideWeb (W3) is a wide-area hypermedia information retrieval in

Everything there is online about W3 is linked directly or indirectly to this doc November's W3 news , Frequently Asked Questions .

What's out there?
Pointers to the world's online information, subjects, W1 servers, etc.

Pointers to the world's online information, subjects, W3 servets, etc. Help on the browser you are using Schware Products
A list of W3 project components and their current state. (e.g. Line Mode Technical Details of postocols, formats, program internals etc

Bibliography
Paper documentation on W3 and references.

People
A list of some people involved in the project.

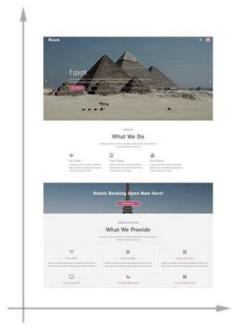
History
A summary of the history of the project.

How can I help?

If you would like to support the web...

Getting code
Getting the code by anonymous FIP, etc.

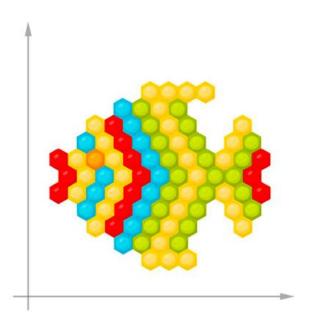




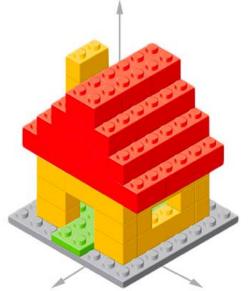




WEB DESIGN 1.0



WEB DESIGN 2.0

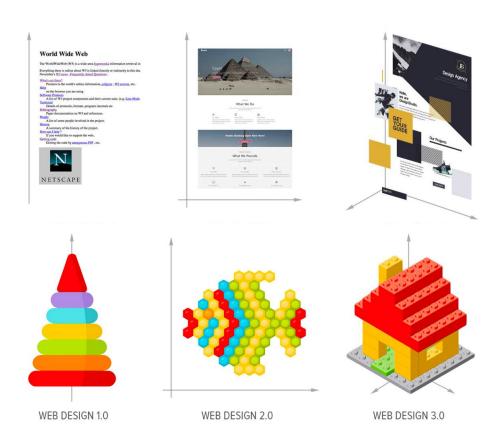


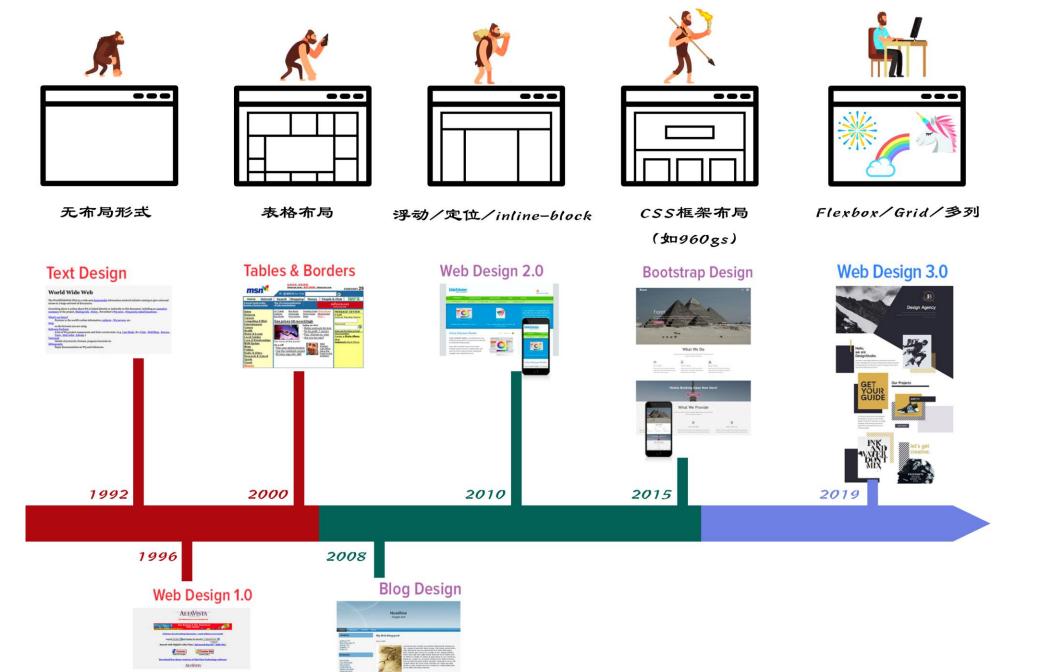


计 开课吧

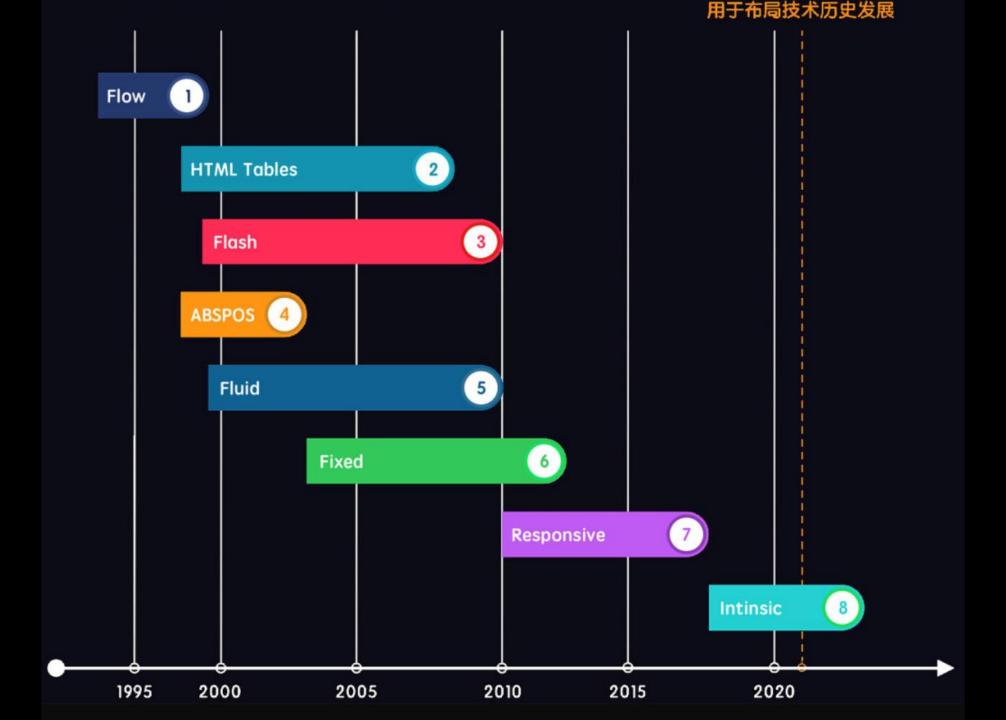


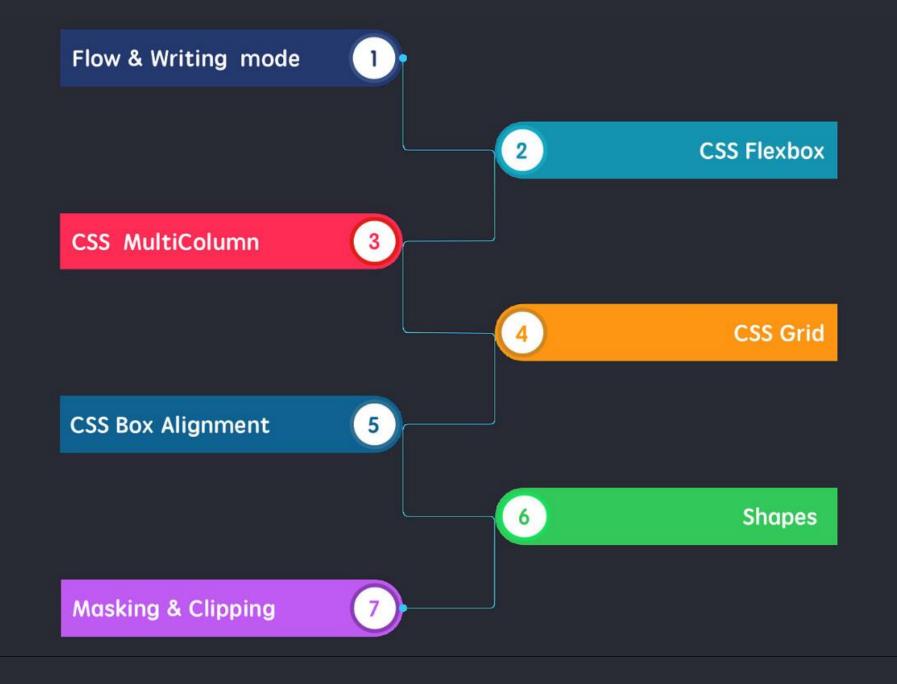
- Web设计1.0是"一维的":设计元素大多是按顺序排列的 (按文档流的自然顺序排列)
- Web设计2.0是"二维的":单元格中有放置元素的网格, 具有更多的自由性
- Web设计3.0是一个"新的维度": 它可以像平面设计工具 一样的自由地定位元素、重叠





分 开课吧

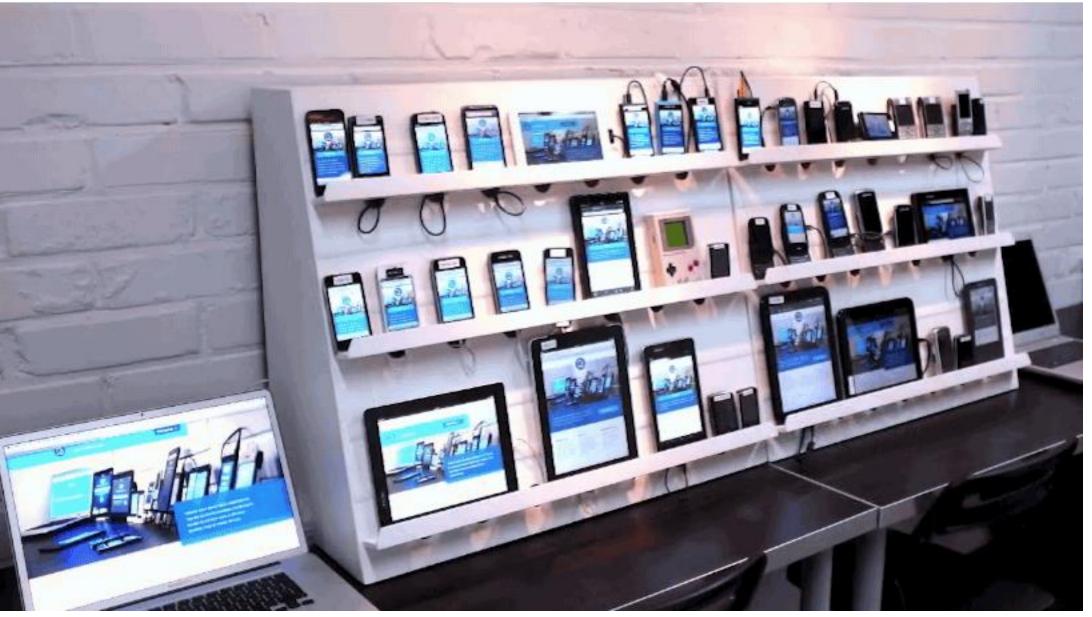






Rem 和 VW 适配方案的 设计思路和利弊

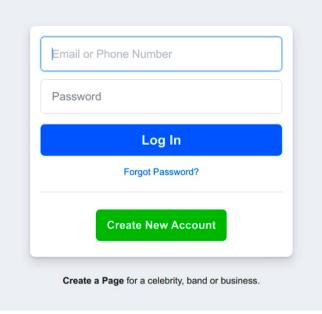




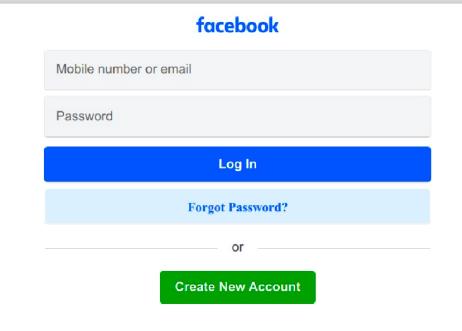


facebook

Connect with friends and the world around you on Facebook.

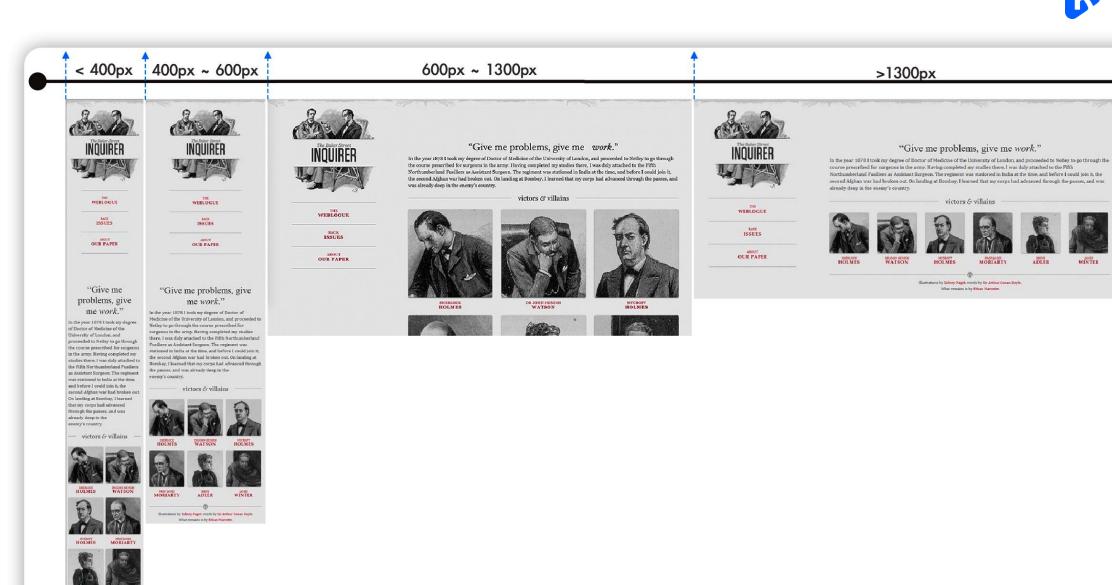


www.facebook.com (桌面端)



m.facebook.com (移动端)





What remains is by Ethan Marcotta.

Device metrics

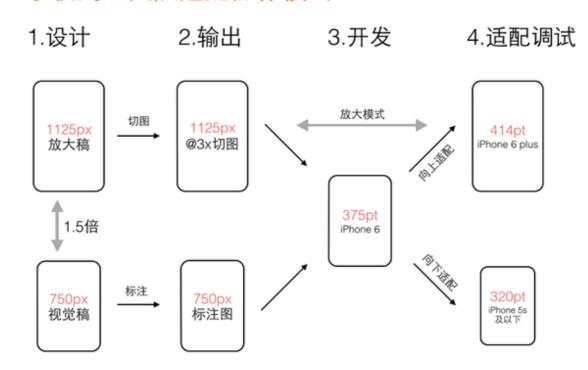


Туре	Device	Platform	Screen dimensions in cm	Aspect Ratio	Width × Height dp	Width × Height px	Density
	iPad	iOS	9.7 in 5.8 × 7.8 in	4:3	768 × 1024 dp	768 × 1024 px	1.0 mdpi
	iPad Mini	iOS	7.9 in 4.7 × 6.3 in	4:3	768 × 1024 dp	768 × 1024 px	1.0 mdpi
	iPad Mini Retina	iOS	7.9 in 4.7 × 6.3 in	4:3	768 × 1024 dp	1536 × 2048 px	2.0 xhdpi
	iPad Pro	iOS	12.9 in 10.3 × 7.7 in	4:3	1366 × 1024 dp	2732 × 2048 px	2.0 xhdpi
	iPad Retina	iOS	9.7 in 5.8 × 7.8 in	4:3	768 × 1024 dp	1536 × 2048 px	2.0 xhdpi
	iPhone	iOS	3.5 in 1.9 × 2.9 in	3:2	320 × 480 dp	320 × 480 px	1.0 mdpi
	iPhone 4	iOS	3.5 in 2.0 × 2.9 in	3:2	320 × 480 dp	640 × 960 px	2.0 xhdpi
	iPhone 5	iOS	4.0 in 2.0 × 3.5 in	16 : 9	320 × 568 dp	640 × 1136 px	2.0 xhdpi
	iPhone 6	iOS	4.7 in 2.3 × 4.1 in	16 : 9	375 × 667 dp	750 × 1334 px	2.0 xhdpi
	iPhone 6 Plus	iOS	5.5 in 2.7 × 4.8 in	16 : 9	414 × 736 dp	1080 × 1920 px	3.0 xxhdpi
Ţ	iMac 27	0S X	27.0 in 23.5 × 13.2 in	16:9	2560 × 1440 dp	2560 × 1440 px	1. 0 mdpi

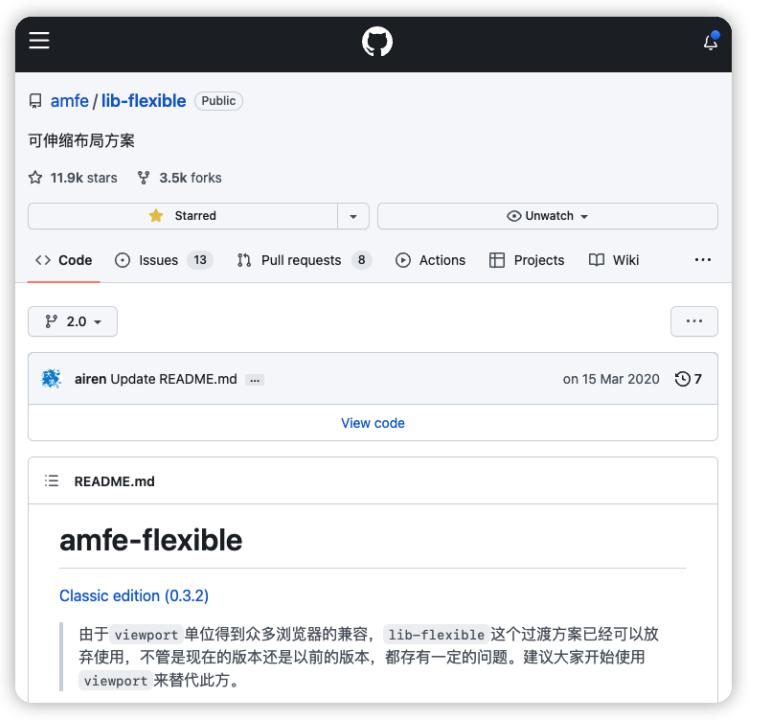


- 。选择一种尺寸作为设计和开发的基准
- 定义一套适配规则,自动适配其他尺寸的设备
- 。特殊适配效果给出设计效果

手机淘宝团队适配协作模式



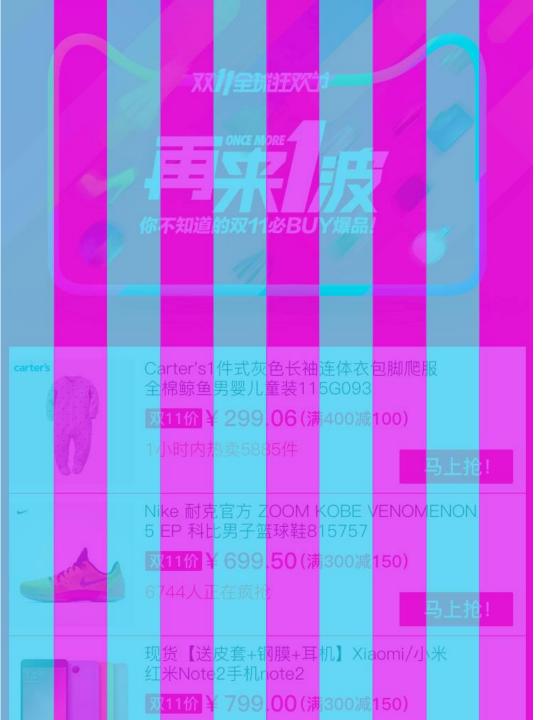
手淘设计师常选择iPhone6作为基准设计尺寸,交付给前端的设计尺寸是按 750px x 1334px 为准(高度会随着内容多少而改变)。前端开发人员通过一套适配规则自动适配到其他的尺寸。





lib-flexible

https://github.com/amfe/lib-flexible





Flexible会将视觉稿分成 100 等份,每一等份被称为一个单位 a 。同时 1rem 单位被认定为 10个a。

$$1a = 7.5px$$

 $1rem = 75px$

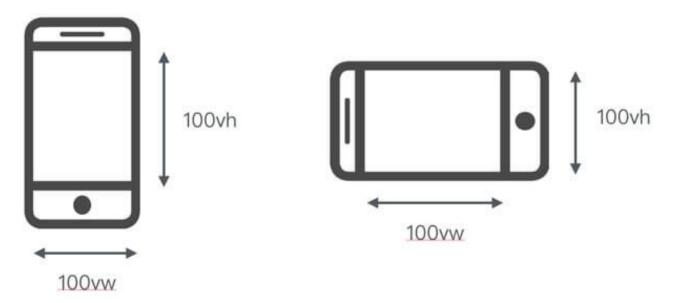
<html> 元素设置的 font-size 为 75px

https://www.w3cplus.com/mobile/lib-flexible-for-html5-layout.html

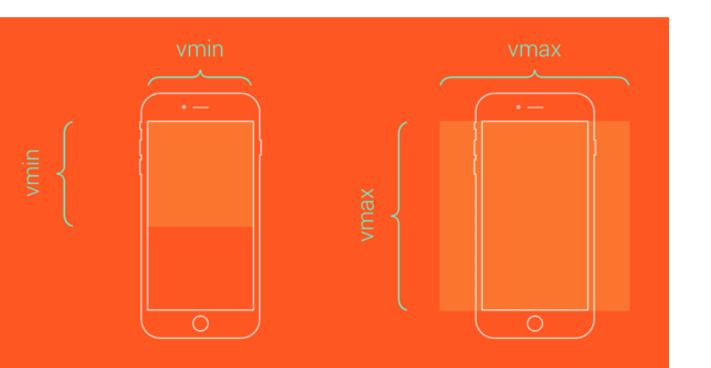


下开课吧

https://git.kaikeba.com/damo/clear-cart/blob/adapter-rem/postcss.config.js







$$100vw = 750px$$

 $1vw = 7.5px$



```
"postcss-px-to-viewport": {
   // 视窗的宽度,对应的是我们设计稿的宽度,一般是750
   viewportWidth: 750,
   // 视窗的高度,根据750设备的宽度来指定,一般指定
1334, 也可以不配置
   viewportHeight: 1334,
   // 指定`px`转换为视窗单位值的小数位数(很多时候无法整
除)
   unitPrecision: 3,
   // 指定需要转换成的视窗单位,建议使用vw
   viewportUnit: 'vw',
   // 指定不转换为视窗单位的类,可以自定义,可以无限添加,
建议定义一至两个通用的类名
   selectorBlackList: ['.ignore', '.hairlines'],
    // 小于或等于`1px`不转换为视窗单位,你也可以设置为你
想要的值
   minPixelValue: 1,
   // 允许在媒体查询中转换`px`
   mediaQuery: false
```

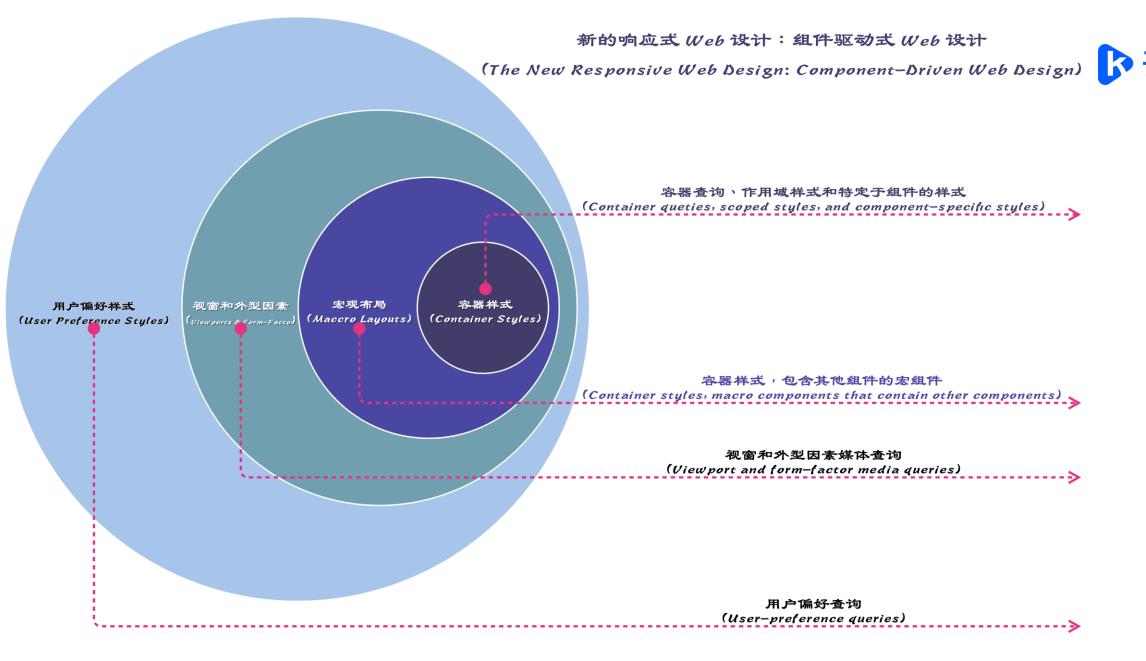


https://git.kaikeba.com/damo/clear-cart/blob/create-components/postcss.config.js

https://www.w3cplus.com/css/vw-for-layout.html

03

03 未来值得期待的布局或适配方案



https://www.w3cplus.com/css/the-new-responsive-web-design-component-driven-web-design.html



PINK HAND-MADE PLANTER

\$16.99

Handmade in Brooklyn, NY. Dimensions: 16" at opening, 10" at base. Round dome shape for single or multiple plantings.

ADD TO CART



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ADD TO CART

inline-size > 45em



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+ ADD TO CART



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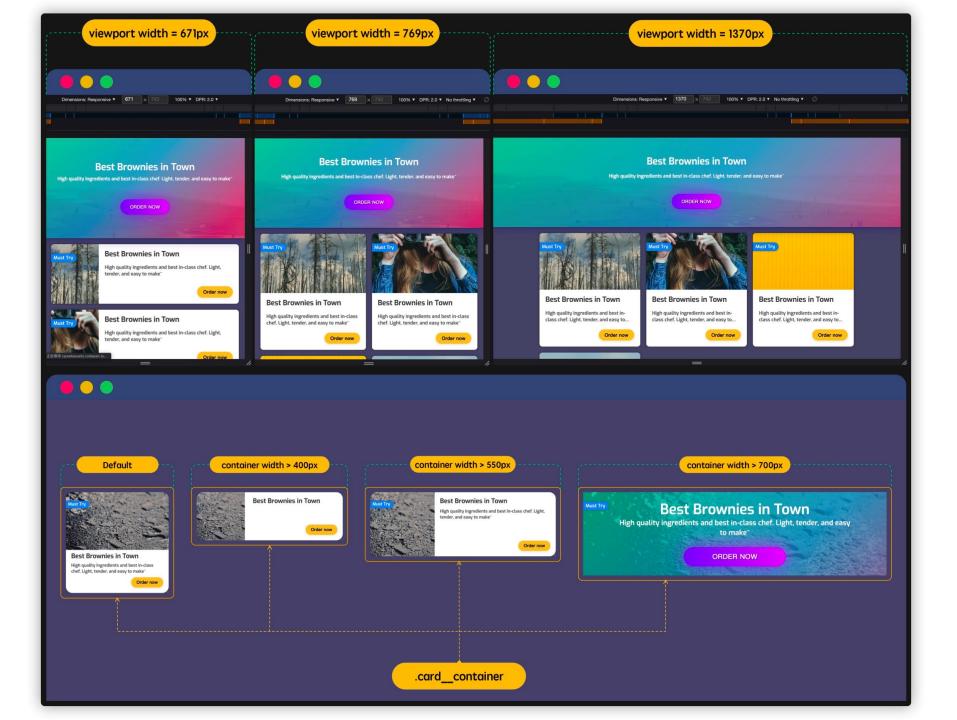
+ ADD TO CART



主内容 (main)

侧边栏 (aside)



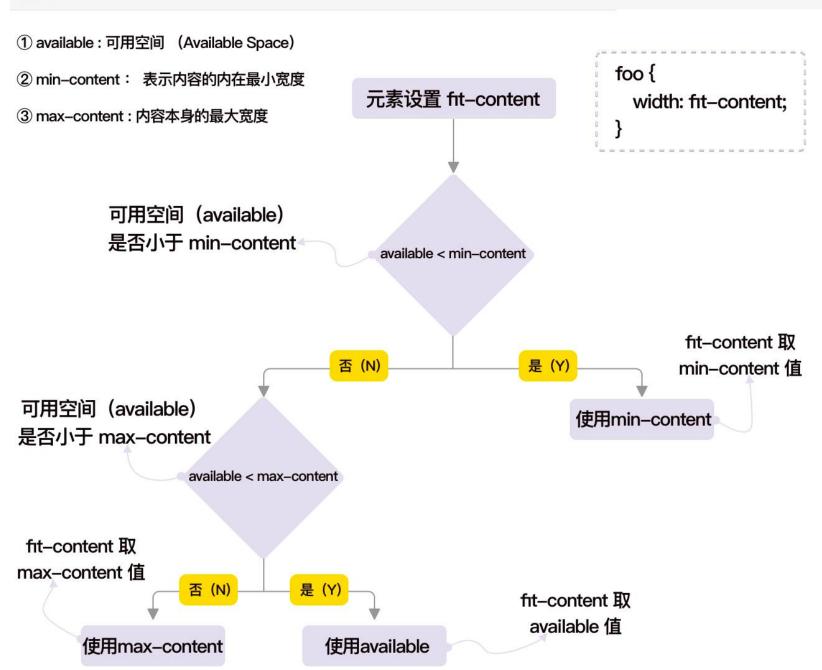














https://noti.st/airenliao/MXTHfl#sfawHn5

https://codepen.io/airen/pen/dyPJdWJ



https://www.w3cplus.com/css/practical-uses-of-css-math-functions-calc-clamp-min-max.html

https://www.w3cplus.com/css/how-to-get-a-pixel-perfect-and-linearly-scaled-ui.html https://codepen.io/airen/pen/oNWwdoZ





THANKS

数字化人才在线教育平台

