

Applying Bruce Lee's philosophy to web design

By Chen Hui Jing / @hj_chen



Surname

First name

陈慧晶 Chen Hui Jing



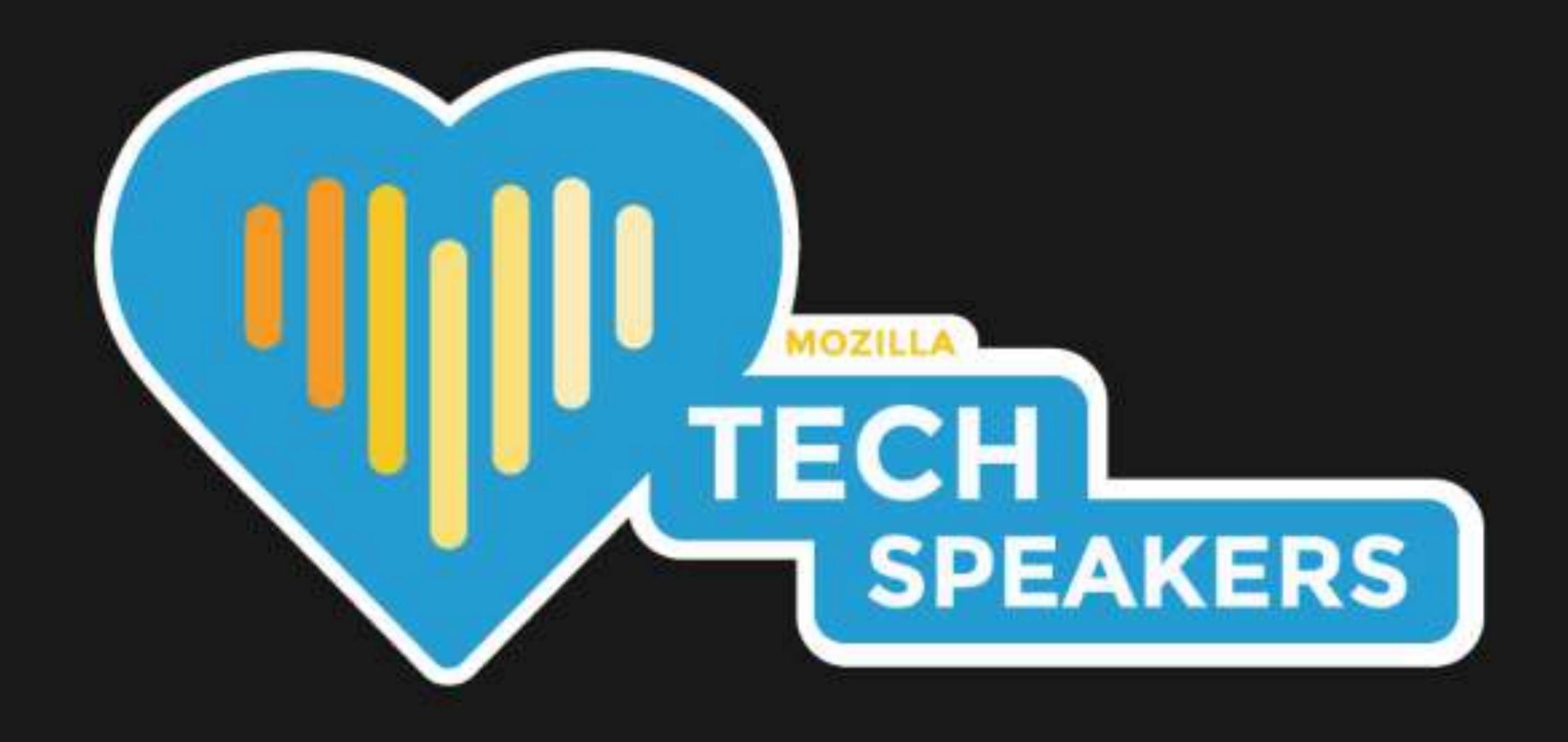






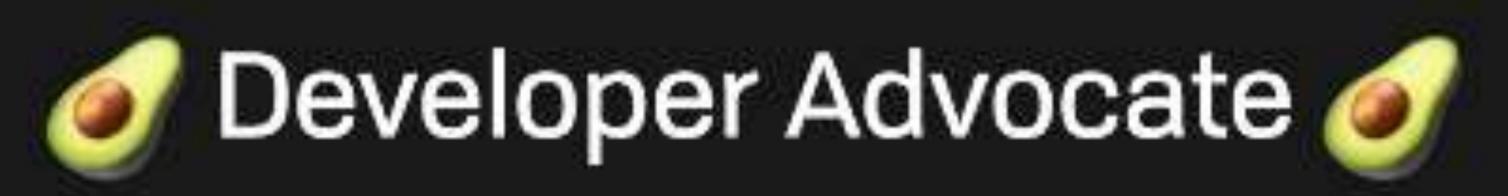


@hj_chen



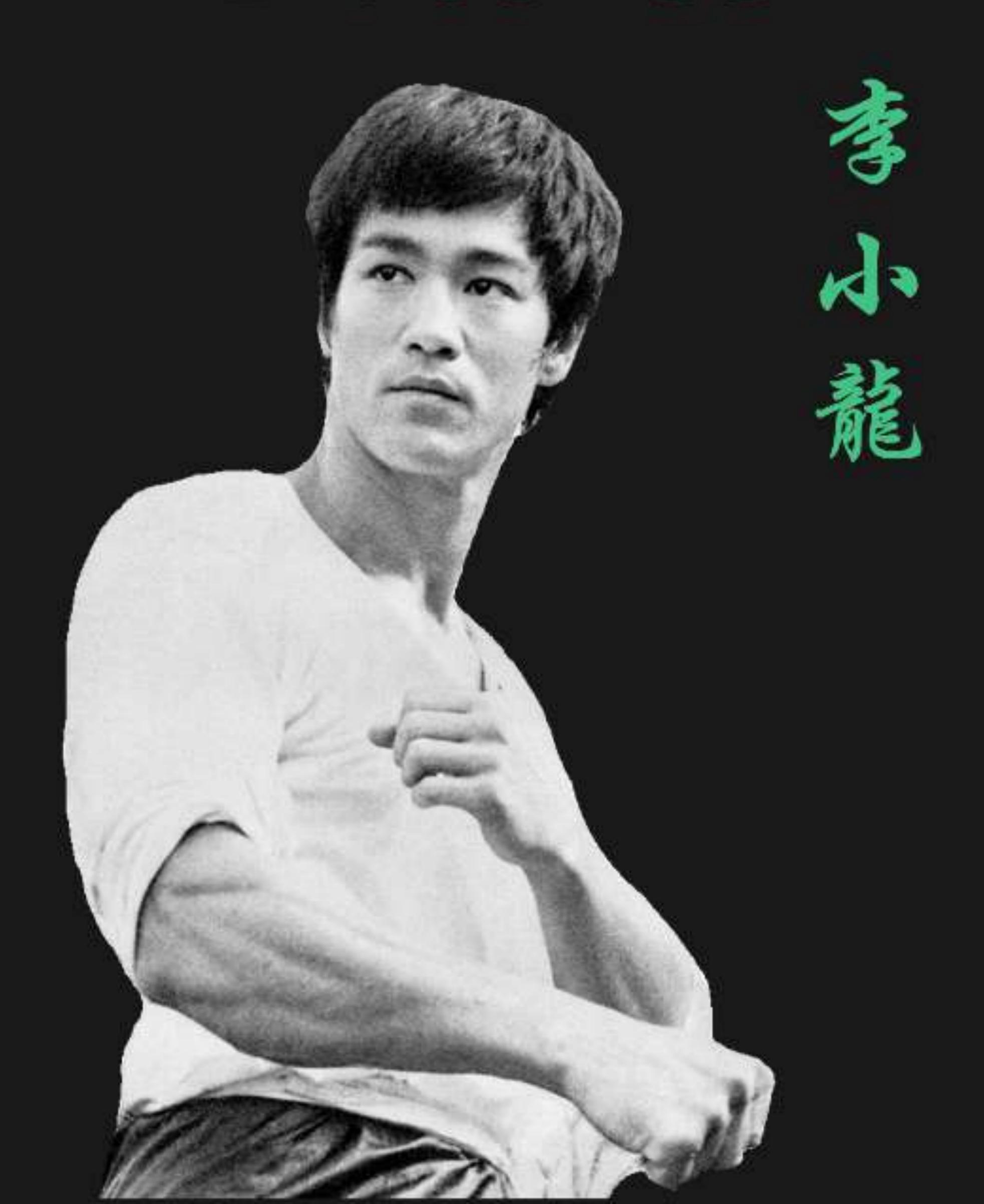
https://events.mozilla.org/techspeakers







Bruce Lee





Be formless, shapeless, like water.

Now you put water into a cup, it becomes the cup.

You put water into a bottle, it becomes the bottle. You put it in a teapot, it becomes the teapot.

Now water can flow, or it can crash.

Be water, my friend.

-Bruce Lee



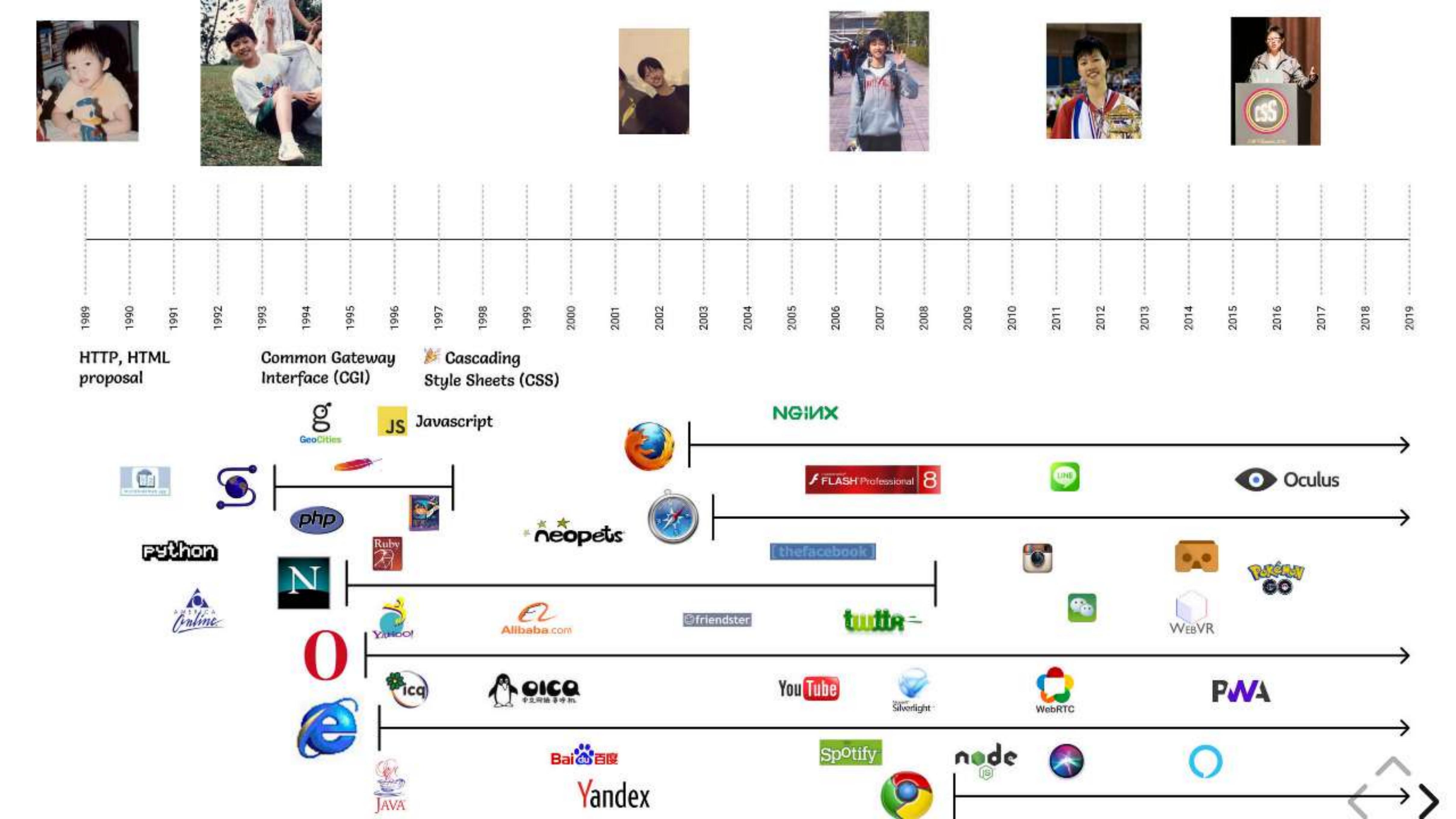


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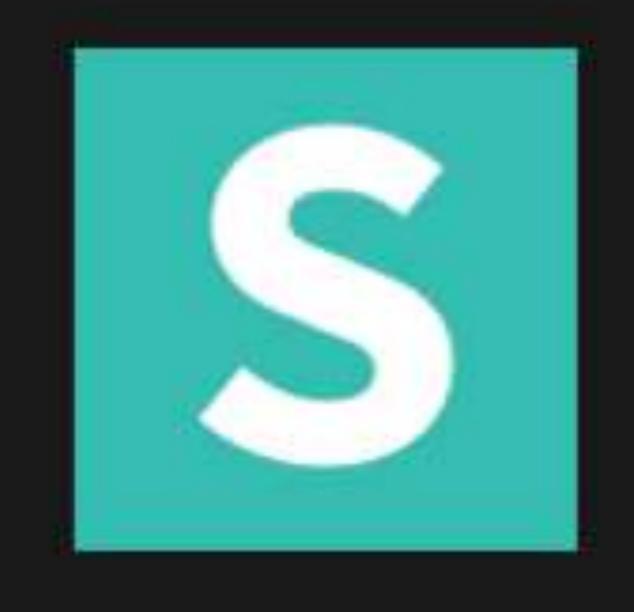


Digital media





What about frameworks?









tachyons





Oreformations simply lack the flexibility to adapt to the ever changing.

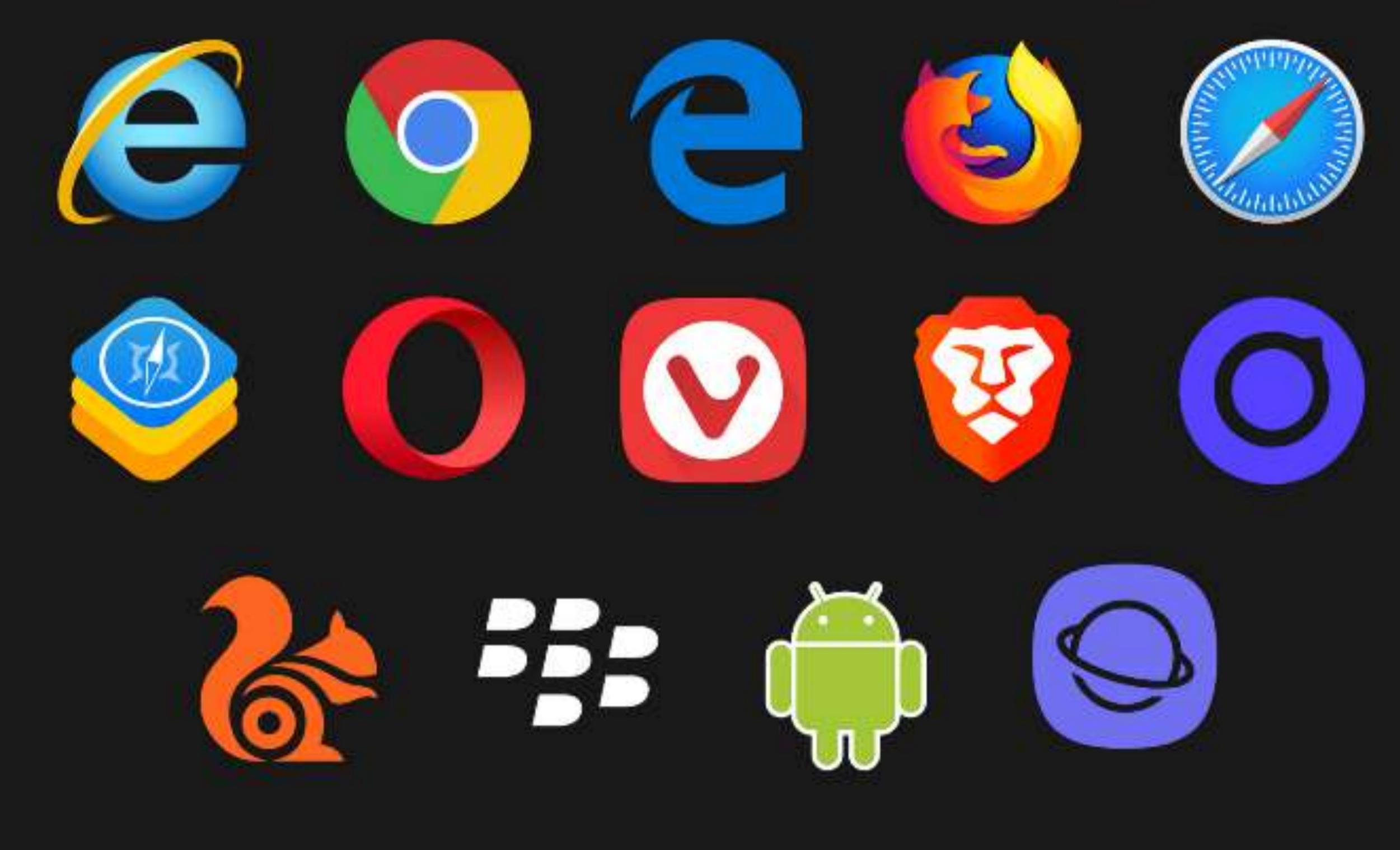
-Bruce Lee



Let's establish a new normal



State of Browsers (2018)



and many more...



Yes, it's easier to develop and test in only one browser. I'm sure IT professionals would have loved to only support one kind of machine. But variety creates opportunity for us as developers in the long run.

-Rachel Nabors, The Ecological Impact of Browser Diversity



Feature Queries

To write style sheets that use new features when available but degrade gracefully when those features are not supported

Browser support



✓ ✓ Partial Support

Global: 92.08% + 0% = 92.08%

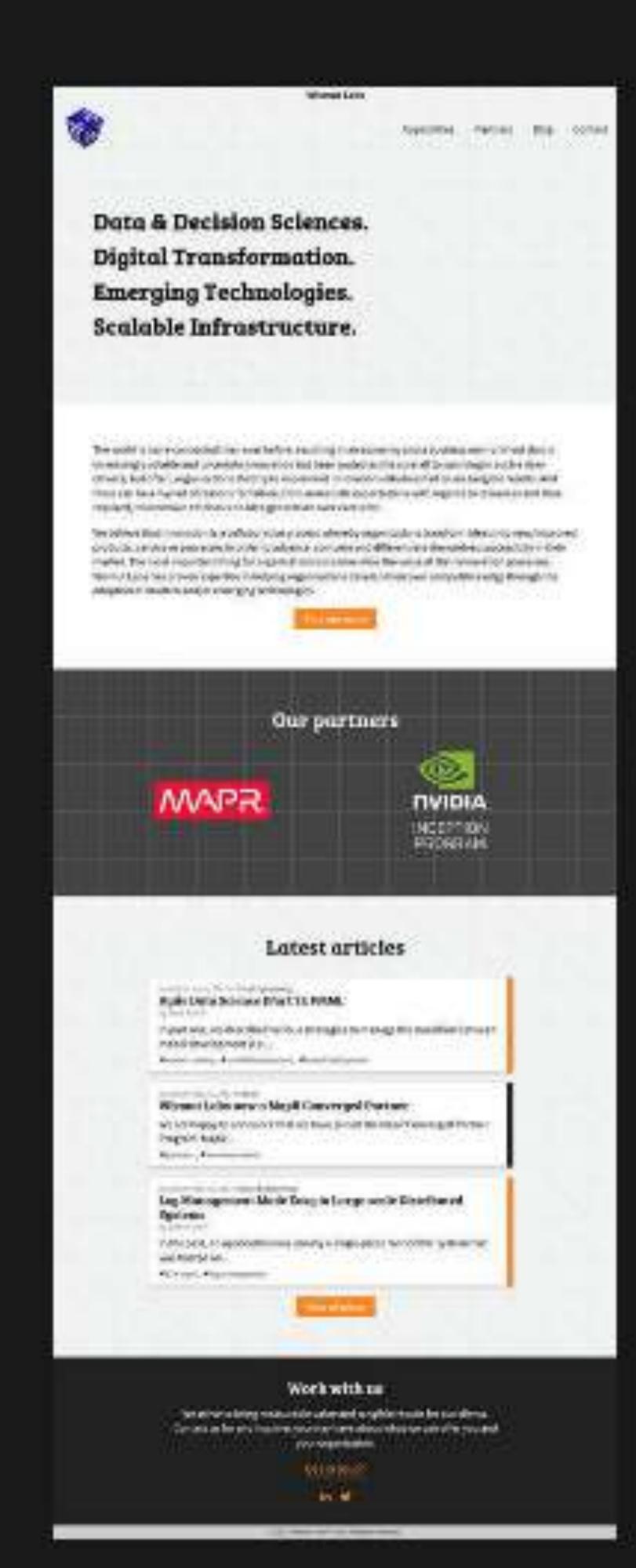
Data from carriase.com | Embed from carriase.bitsofco.de

Enable accessible colours



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









It is futile to argue as to which single leaf, which design of branch, or which attractive flower you like; when you understand the root, you understand all its blossoming.

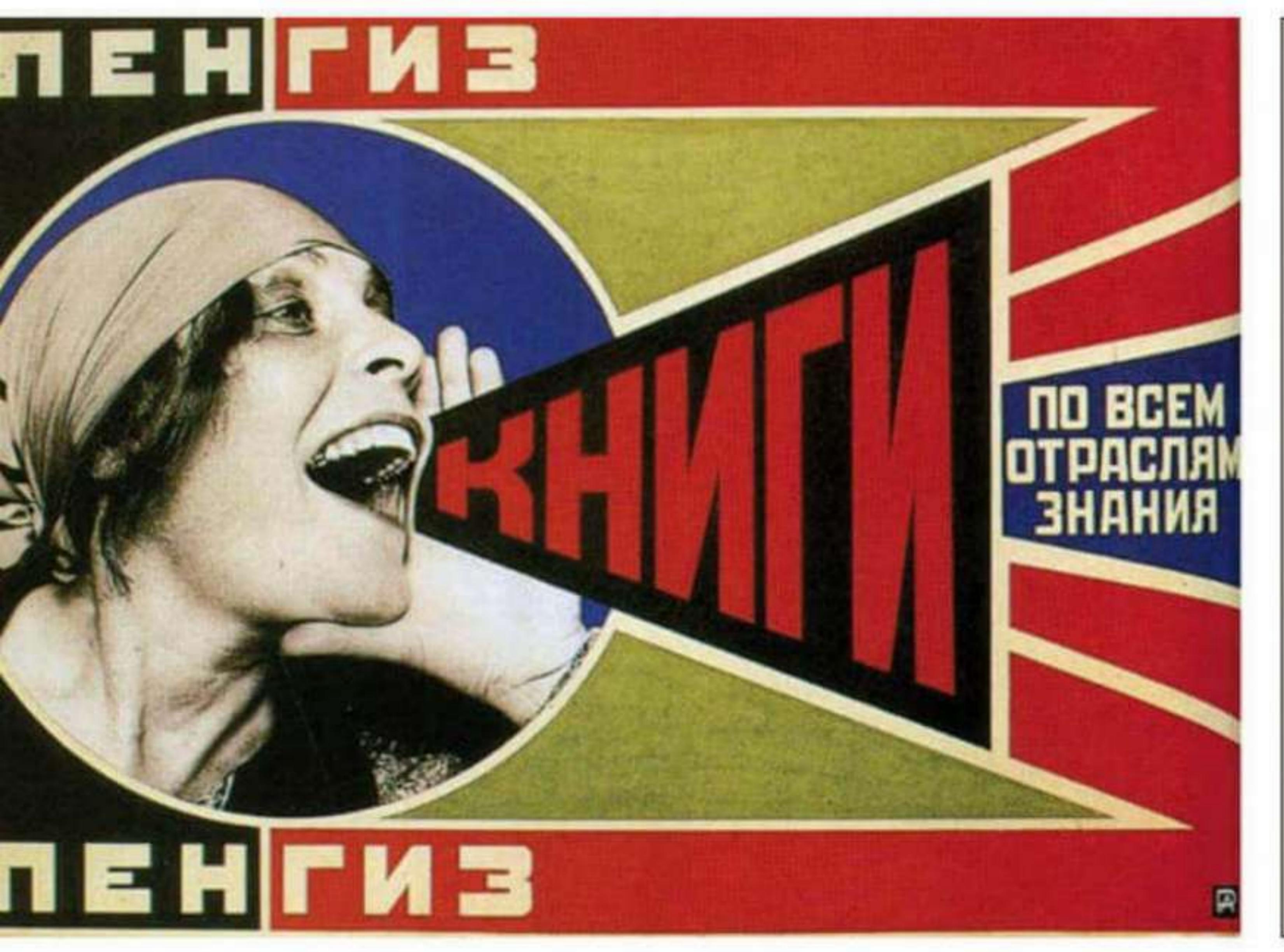
-Bruce Lee



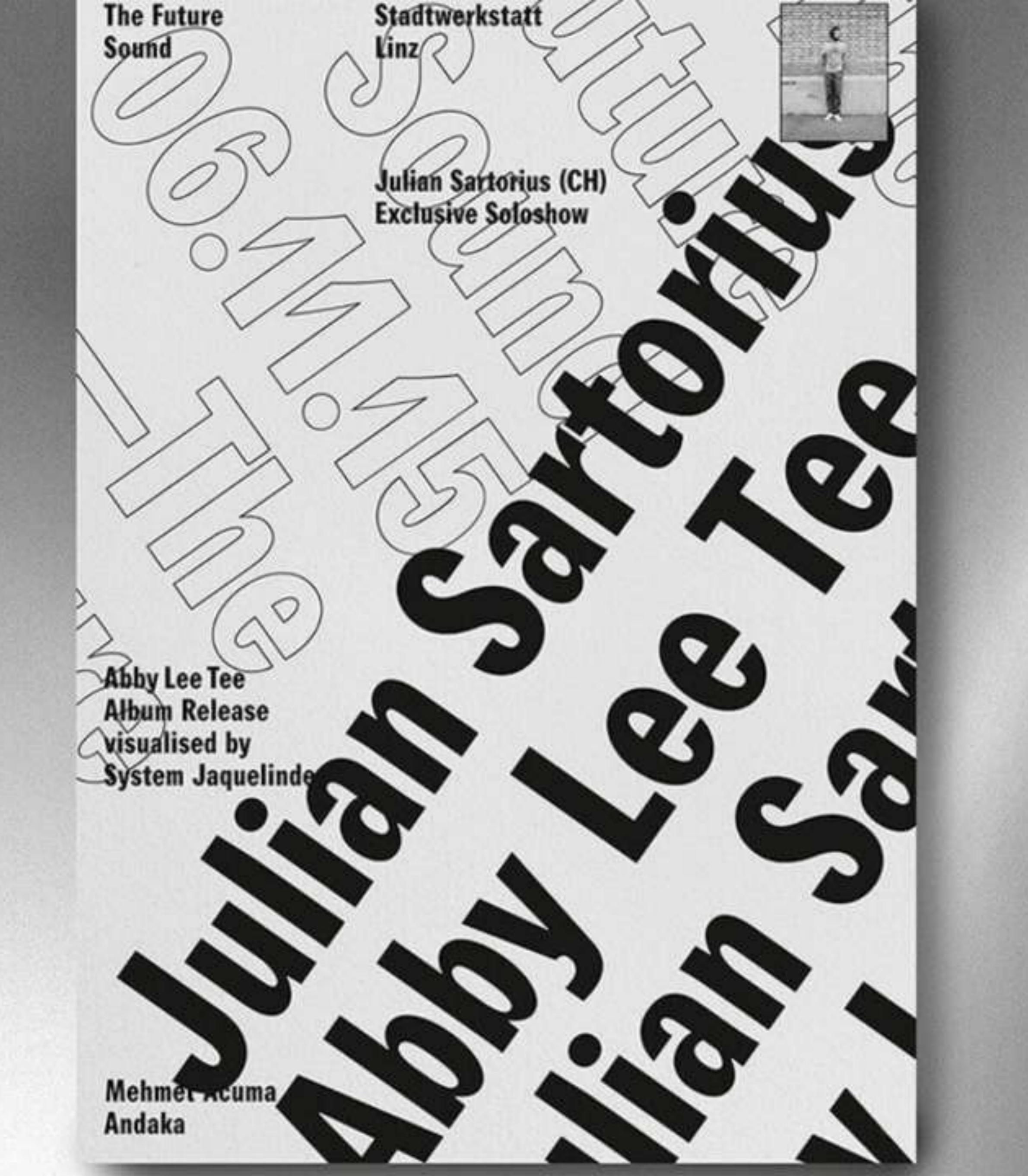
 per pixel control: CSS1 values simplicity over level of control, and although the combination of · author control: the author cannot enforce the use of a certain sheet, only suggest a layout language: CSS1 does not offer multiple columns with text-flow, overlapping frames etc. . a rich query language on the parse tree: CSS1 can only look for ancestor elements in the parse paper: better support for printing HTML documents. * support for non-visual media: work is in the process to add a list of properties and corresponding color names: the currently supported list may be extended fonts: more precise font specification systems are expected to complement existing CSS1 font values, properties: we expect vendors to propose extensions to the CSS1 set of values and · layout language: support for two-dimensional layout in the tradition of desktop publishing . other DTDs: CSS1 has some HTML-specific parts (e.g. the special status of the 'CLASS' and 'ID' attributes) but should easily be extended to apply to other DTDs as well. We do not expect CSS to evolve into: a programming language

Transforms

Allows us to change the **shape** and **position** of the affected content without disrupting the normal document flow











2D transform functions

```
Performs a 2D rotation by the angle specified around the element's origin

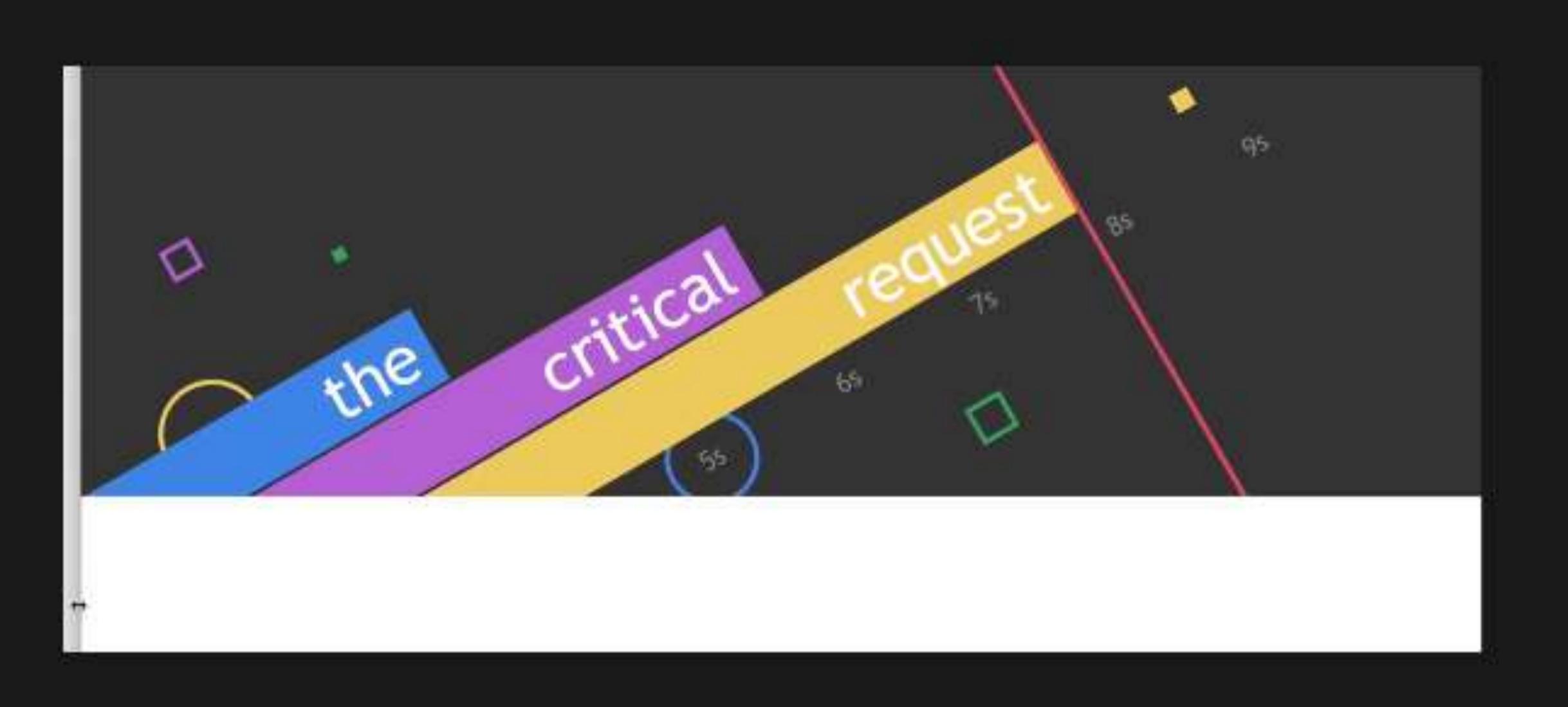
translate( <translation-value> Performs a 2D translation in the specified X and Y directions

skew( <angle> [, <angle> ]? ) Performs a 2D skew by the angles specified

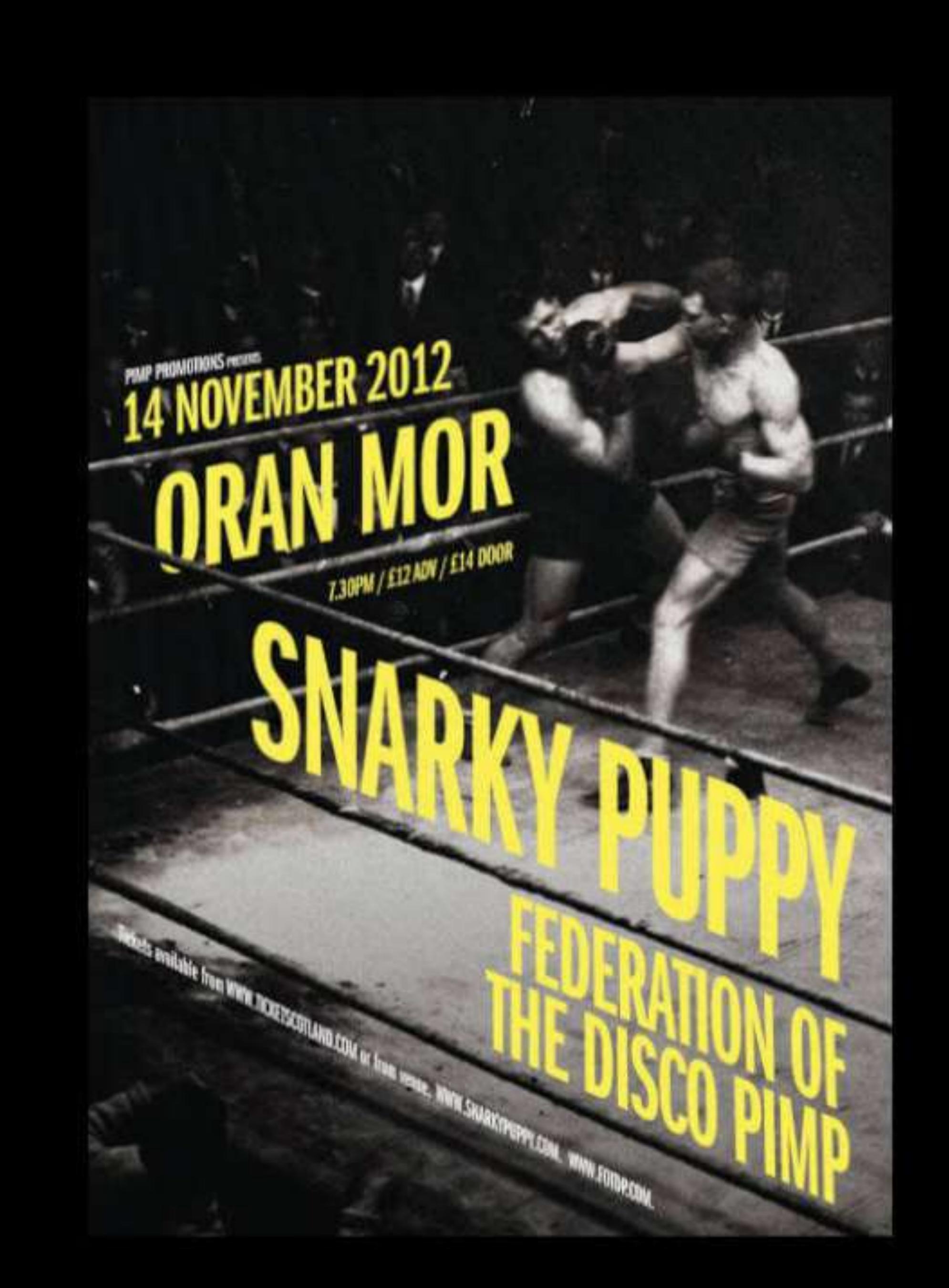
scale( <number> [, <number> ]? ) Performs a 2D scale operation by the scaling vector specified
```



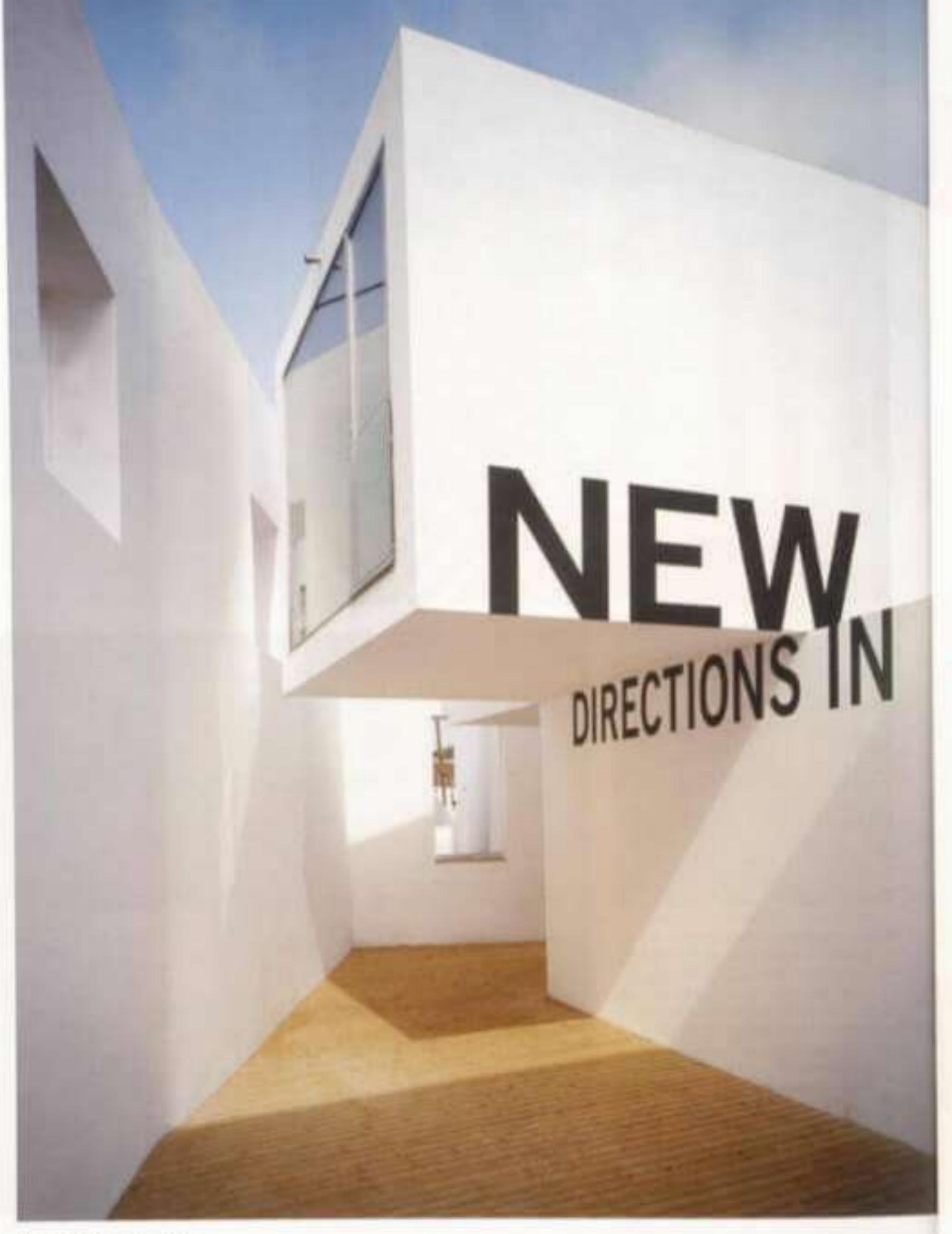
Diagonal text with rotate()



```
.trf2d-cont {
 display: grid;
 grid-template-columns: repeat(9, 1fr);
 grid-template-rows: repeat(3, 2em) re
 grid-gap: 0.125em;
  position: relative;
@media screen and (min-width: 480px) {
  .trf2d-cont {
    transform: rotate(-30deg) translateX
@media screen and (min-width: 640px) {
  .trf2d-cont {
    transform: rotate(-30deg) translateY
```







WN PORTUGAL PORTUGAL AIRES MATEUS - BROTHERS OF INVENTION

PORTUGAL'S IMPRESSIVE CULTURAL AND CREATIVE POTENTIAL WAS FIRST REVEALED TO THE WORLD OF MODERN ARCHITECTURE BY ALVARD SIZA. IN HIS WAKE, A NEW GENERATION OF ARCHITECTS IS EMERGING THAT INCLUDES MANUEL AND FRANCISCO AIRES MATEUS. THEIR WORK IS BOTH STRONGLY INTERNATIONAL AND ROOTED IN ITS PARTICULAR PLACE.

BY BRIAN CARTER PHOTOGRAPHY BY DANIEL MALHAO

Marcol and Transmer Aires Manuscare breakers who, wher studying architecture at the Tychocal University in Liebon, while will be their tool twenters worst on to subdish a study manther in 1968. Their growing parties scenario transmers to the heart of Liebon – one as the extension shall of a former industrial searkshape and the other in mesons high up to a minimum of human where they work collaboratority. Write a wind remarks he had no had a charge for human and searched competition whereing

perspecial align frame remided to new buildings on homests settings and imprecisive landscapes, they saw playing on increasingly significant role in the development of new archimenous in Postages.

The thoughtful relationship. of building to bindscape and the continuing minimalities of their work was mangaposed by Alview Sincated Refeel Money, who relinded projects designed by the Aires Marcus broothers in the exhibition Portuguese-Spirith Encourages in Archivetters. Universified by Ladeny and later in Substances to 259%, to was arroad et amorning the work and aden of an immerging group of architics. that was, as been suggested, "freerfrom bylyffingtone and emphysfintions timeswitten or trialities.

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Perspective text

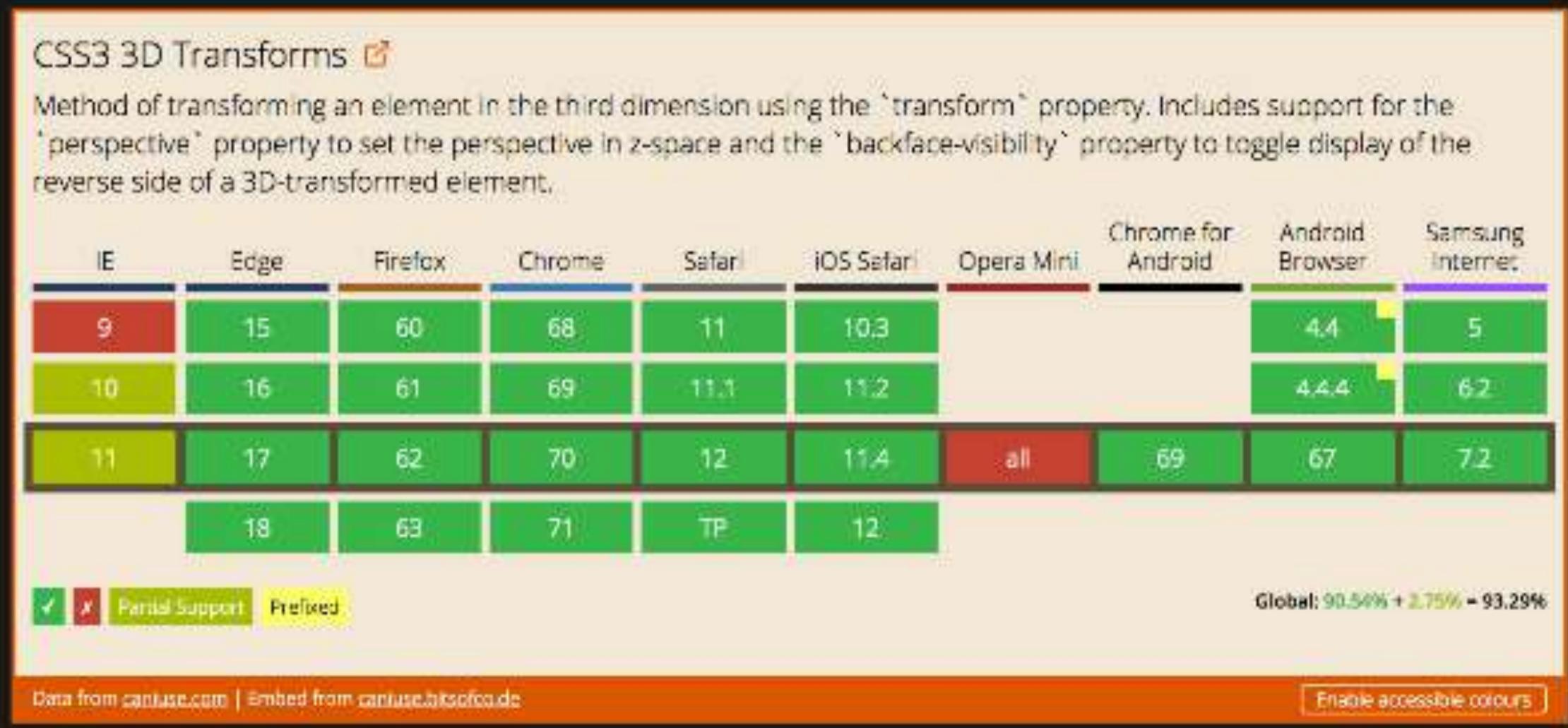


```
.trf3d-cont div {
 perspective: 45vw;
 perspective-origin: 50% 0%;
.trf3d-cont h1 {
 transform: rotateY(-45deg);
 background-color: #44c185;
 color: #191919;
 padding: 0.25em 1em;
```



Browser support







For no Justin Bieber, I go to Amusa to get: coffee, and the paparazzi walk one to ballet class. I drink ouse or two cappuccinos a day. I think that's bud, but I have worse habits. I just gave up smoking because I was deathly ill and couldn't fit the unoke in my lungs. Whiskey is my main indulgence. 10:00 A.M. In England, thench no exercine element, whereas in America I start my day when I have one off-by doing Ballet Beautiful with my friend Harley Viera-Niewton. In L.A., it's all design for my collection with AG. I'm always traveling for work, and 70 percent of the time I'm jet-lagged. This month Eve been in London, Paris, New York, L.A., and back to New York. The part year has been a real learning curve. If my diary doesn't have set things in it, it seems that people on other teams will take advantage of that and I'll split apart, ft's the biblical story about how they [threatened to] split the buby in half because they couldn't decide whose it was I feel like real life is like that. 11:30 A.M. When I can I go to lack's Wife Freds or to the Smile and get scrambled eggs. with cheese and associdis. In New York, I'll take calse. Uher, the subway, or when we're going to a number of different things around the cay, I get on the back of my anntant's Verpa. 1:30 P.M. Realnetically. I'm a journalist, but I want to do TV again. Someone said to me the other day: "Name someone who excelled in more than one arena. Alexa, you need to focus on one thing became you can't inceed if you do it simultaneously." I won't allow people to limit what

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ANDROVERS COS. STORY, WINNIE CHOICE

do. In the afternoon, I might go back home and do some work. My amotant sends e-mails that say, "from the office of Alexa Chung," but my office is essentially my bed. That sounds really unprofessional, but it's usually just us two in bed crinking out e-mails. I go on Airmiogy Zone once a mooth, and I love the Secret Language of Birthdays. You put in your hirthday and it comes back with a survey of people born on that day and their attributes -- it's so spot-on, it's insane. I'm a Scorpio and from the Week of Diepth I think it just means that I overthink things, and I'm reflective and dark. 7:00 P.M. My friend Tennessee Thomas has a shop called the Deep End Club in the East Village, so if I've finished my week I'll stop by I'll likely be hungry at that point, so I'll pick up a cappuccino and a sandwich from across the road and take it in. I have a close group of friends. and if I service one somewhere, I know that they'll survice the rest, I'm out every night with them-I don't like doing it for work. Hidf my life is spent at a dive bar and half is spent at, like, a Valentino dinner, Untally Cen lamenting that my shoes are ill-titung. Last night I went to karaoke, but I can't talk about it anymore because I've become like a caricature. I went a number of times a week for about a year. When I like something I become obsensed with it, even, like, string cheese. Right now it's Lindt chocolate balls. 1:00 A.M. I come home. ger some water, wash my teeth and face, ger into bed, and fall asleep. I always sleep naked. I'd like to be in bed with a boy at 10 v.m., but that's not what happens. As told to Christine Whitney

> for shoosing details, Hear Torra Horso for. Brandle and Burntisc evakeup, Christelle Cocount for Larcornic marricure: Gitta, Vhylano, for Charter Lic Vertill; set design: Risb Strouts Studio.

EVERGREEN

green movement. I've inopped using the plantic bugsat the supermurket. I more my plastic take-away ontainers and try not to use the disposible borel. depen when I travel. They are small gentures, but important ones, nonetheless. I am working on reducing my carbon footprint by taking a lim bomeinstead of a cab, but I stop at deeping with the windows open and no air-conditioning. If can t--- I've tried but the city wounds are just too loud.) I even have ported plants around my bornely box in the day if that's any help at reducing carbon dioxide I am prood of the fact that our late Minister Mireton, Lee Kuse Yew, had this family back in 1963 when he started planning the "greening" of Singapore with a tree-planting compaign, It was his vision to cultivate greenery to soften the hardness of the metropolis. More than an aesthetic movement, it was an active step towards incorporating nature and preserving it in our daily lives, brostoidy. Simpportune, by nature, are not the world's most environmentally correctors for. that with martian, we slowly can be. In this twue, which celebrates flots and fains, I worned to explore the beauty of plants, flowers, insects and animals. Ves, it's an aesthotic vision to beautify our pages, but also, in a small wor, to approxiste what Mother Nature has given us. We went back in time to explore the beauty of illustrations. Our risks and fadison pages are literally blooming with tiowers. Jewels and watches take the form of petals and insects with coloured stones.

and duraling diamends. We sample some of the most ancient healing: primedies to our extensive "Spa Awards 2016" which blends the best bestarics. We even have thetal colorating books for adults. Saving Gatacan be such a beautiful art form; I am doing my little bit to preserve it for generations to come—so that this issue on flora and facts is not a thing of the part.









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Out of Control

By Grego Environment

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css shapes

Defines properties to control the geometry of an element's float area



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.

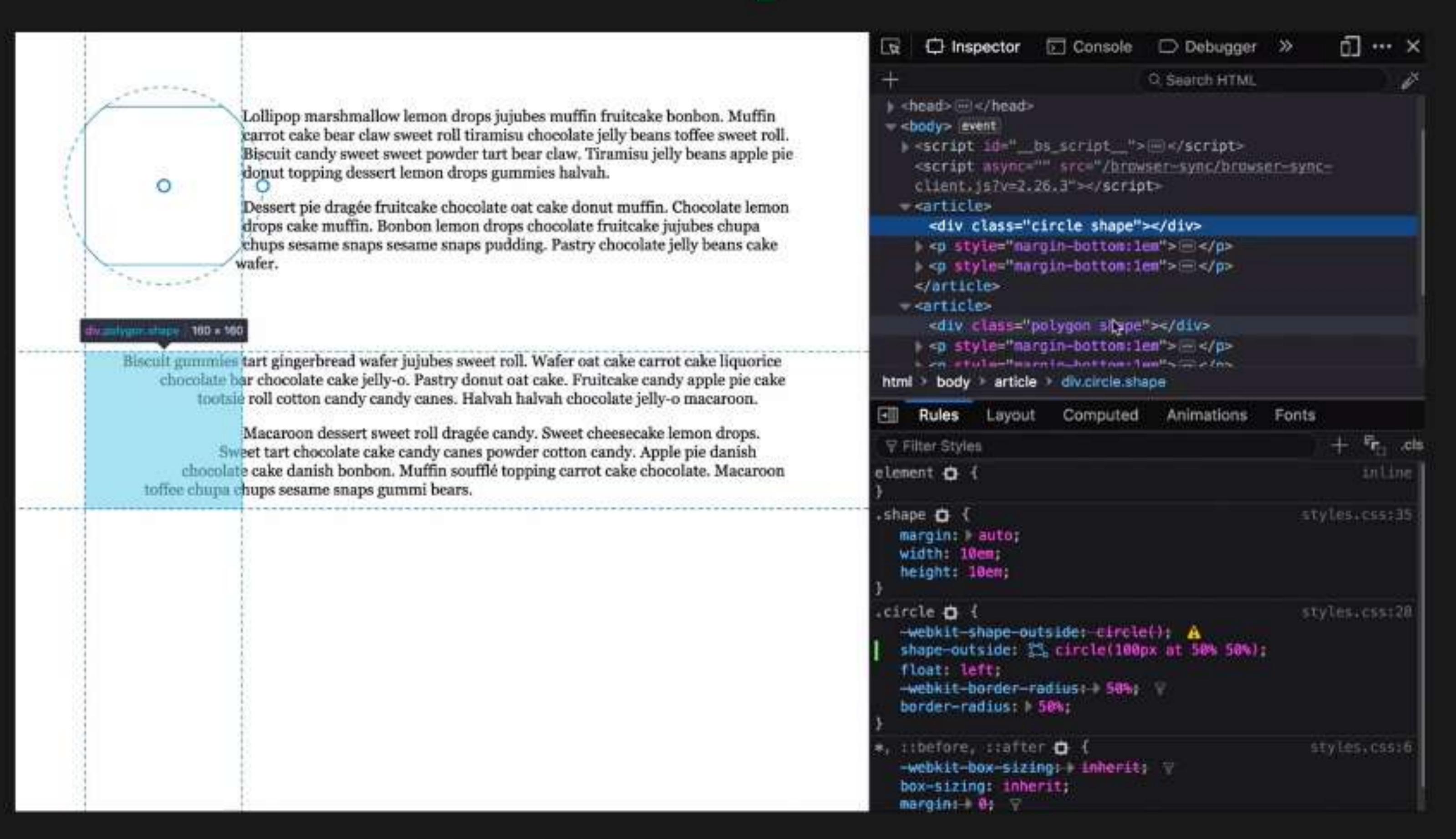
Gummi bears apple pie chupa chups jelly pie halvah pastry sweet. Cookie dessert sweet roll icing cheesecake macaroon wafer cheesecake. Toffee lemon drops apple pie fruitcake sweet roll chocolate cake jelly bear claw jelly. Donut tiramisu chocolate cake sesame snaps marshmallow tootsie roll candy canes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

Cake powder croissant lollipop cotton candy tiramisu lollipop tiramisu. Cookie candy canes aummies iuiubes bonbon fruitcake ice cream ainaerbread. Marzipan toffee carrot cake

```
.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%;
```



Firefox Shapes Editor



MDN: Edit Shape Paths in CSS



Shape from image

Lee Jun-fan (李振藩), known professionally as Bruce Lee, was a Hong Kong and American actor, film director, martial artist, martial arts instructor, philosopher and founder of the martial art Jeet Kune Do. He is widely considered by commentators, critics, media, and other martial artists to be one of the most influential martial artists of all time.

Lee was born in Chinatown, San Francisco, on November 27, 1940, to parents from Hong Kong, and was raised with his family in Kowloon, Hong Kong. He was introduced to the film industry by his father and appeared in several films as a child actor. Lee moved to the United States at the age of 18 to receive his higher education at the

```
.shapes-cont2 img {
   shape-image-threshold: 0.5;
   shape-margin: 0.3em;
   shape-outside:
url('img/bruce2.png');
   float: left;
}
```



Browser support



Vote for Shapes on WPDev User Voice



Writing-mode

Defines CSS features to support for various international writing modes

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此過是結婚通過相關



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學股立兒 原圖 衛衛的 節推

太不興. 想實行這四個字 是婚及教育的所好 中國人漸漸有些覺悟 △ 梅及教育 要普及他們的智識 验及效性 **相直比处天湿炭壁** 但盗 種義務學校,完竟是少數人的力量,你看各處設立了許多的年民義務學校, 决非一朝 夕的事 自從五四學鄉以 国為中國人的智識程度 實是一天高似一天。但我們要 體曹樂池 宣便

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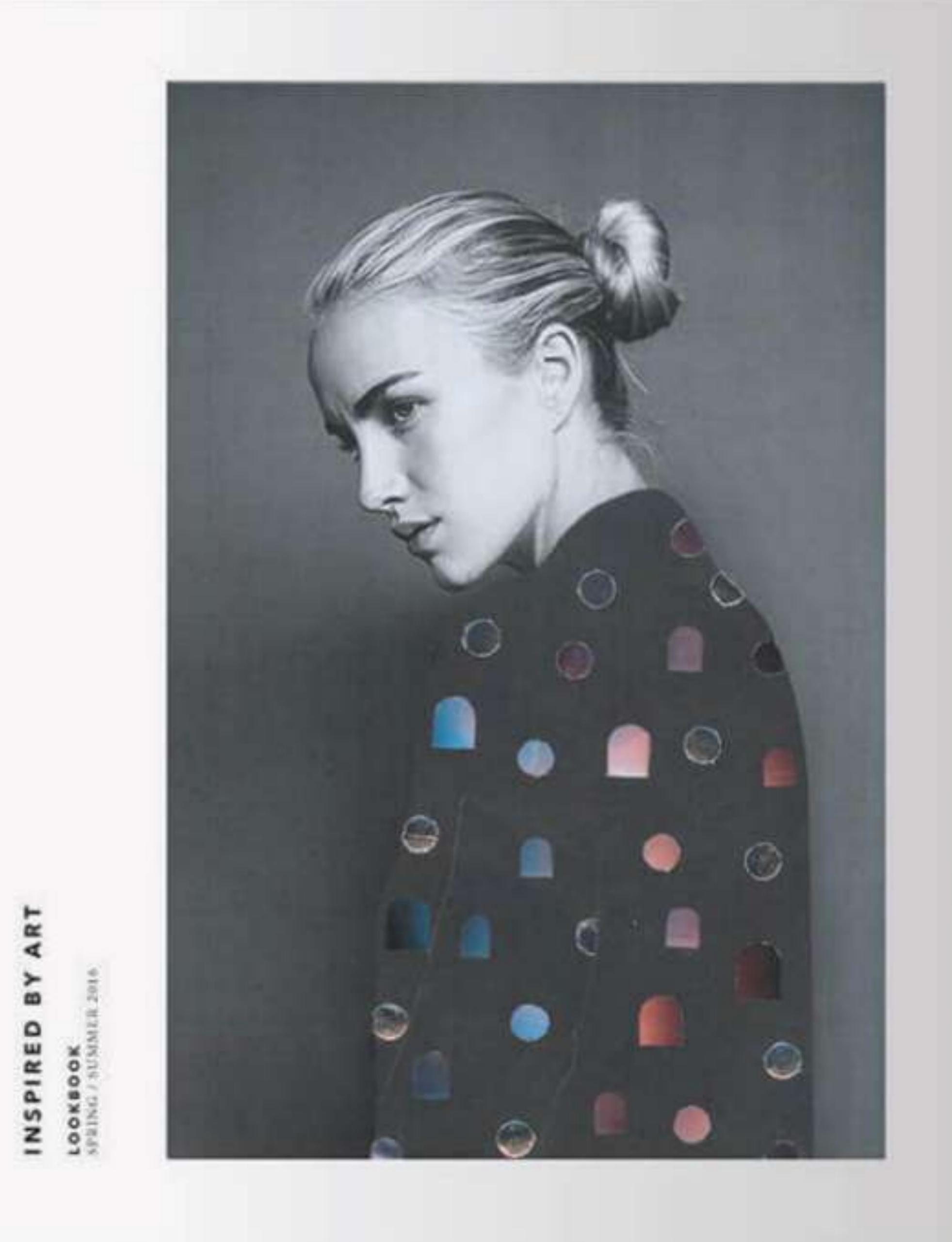


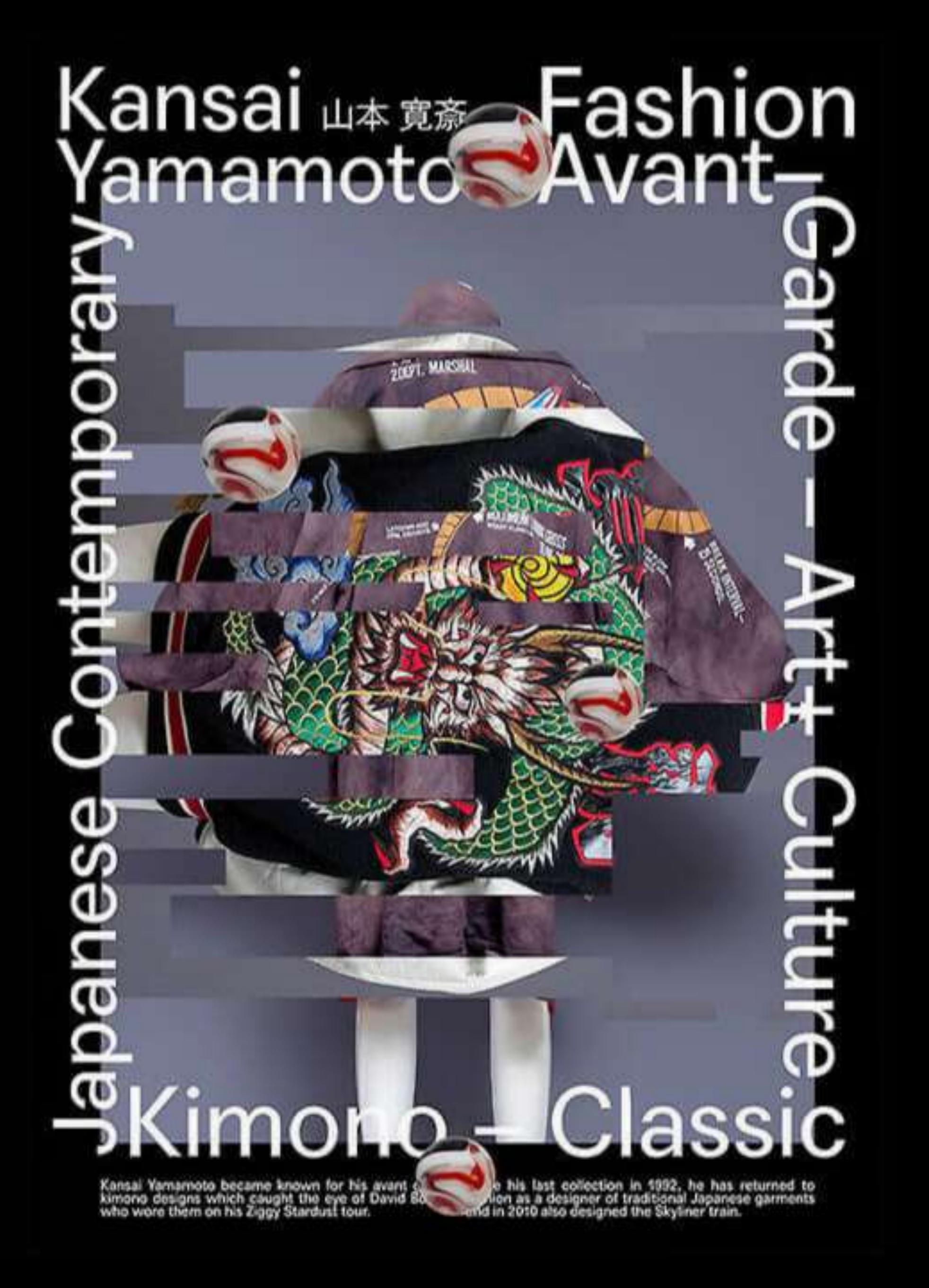


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Vertical text

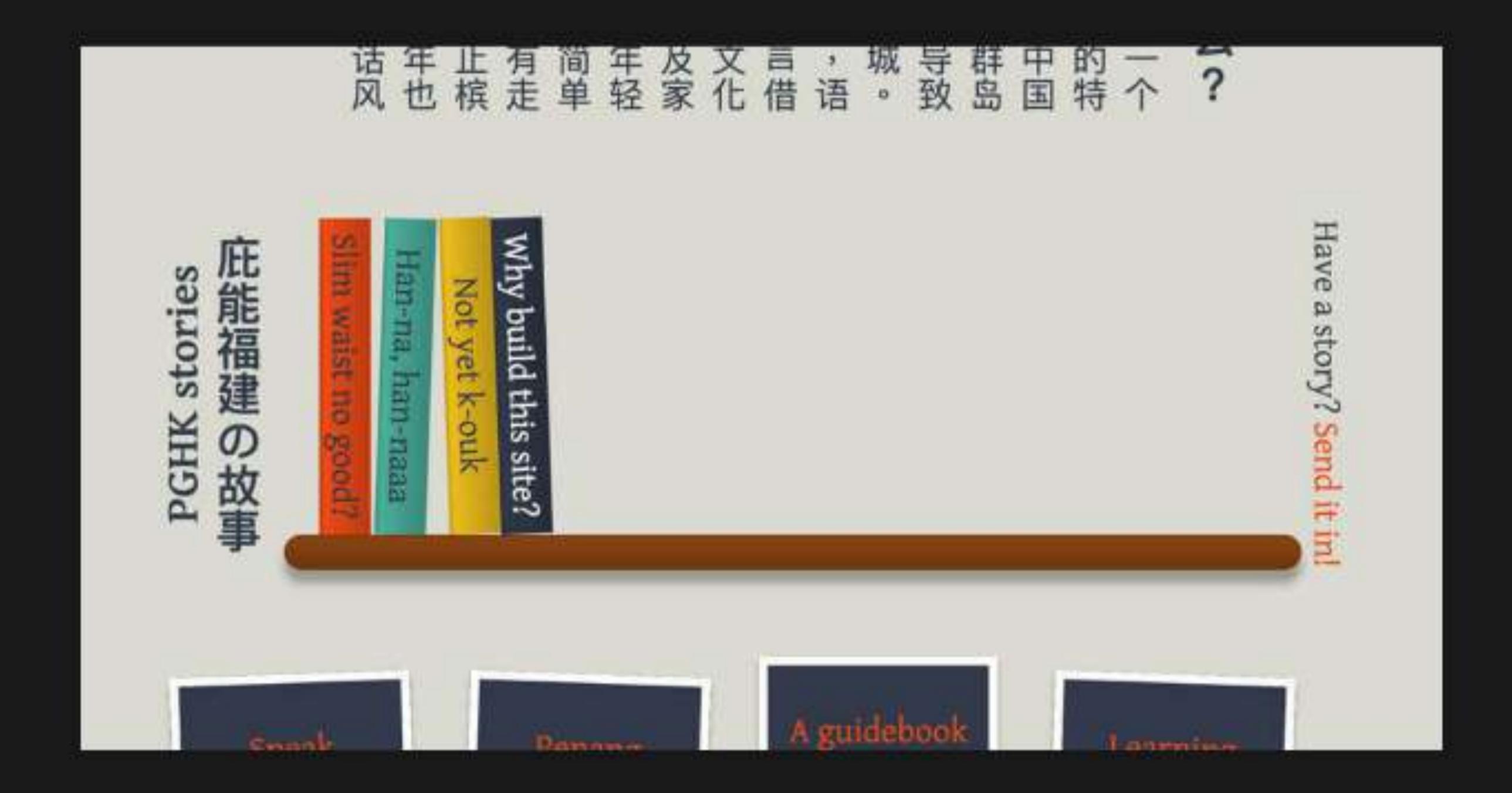
"How did we all get here today? The choices we made, the sheer force of our will, something like that? Here's another answer... the winds of fate. Random coincidence, some unseen hand just pushing us along. Destiny."

SHIP CHIP

```
.wm-cont1 .vert-rl {
 writing-mode: vertical-rl;
 color: #f48136;
.wm-cont1 .vert-lr {
 writing-mode: vertical-lr;
 color: #f9d056;
.wm-cont1 .upright {
 text-orientation:
 font-size: ;
```

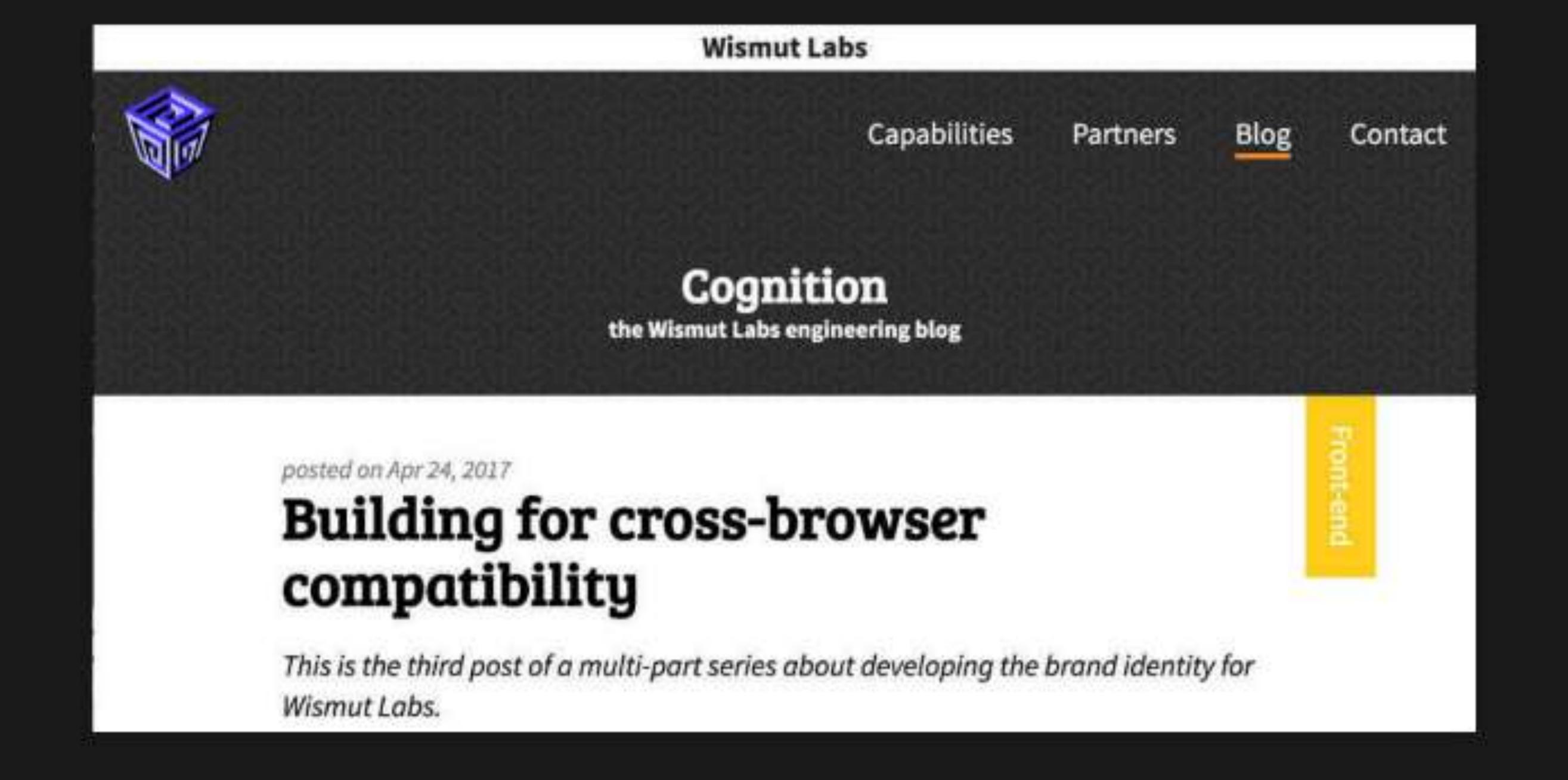
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Vertical headers



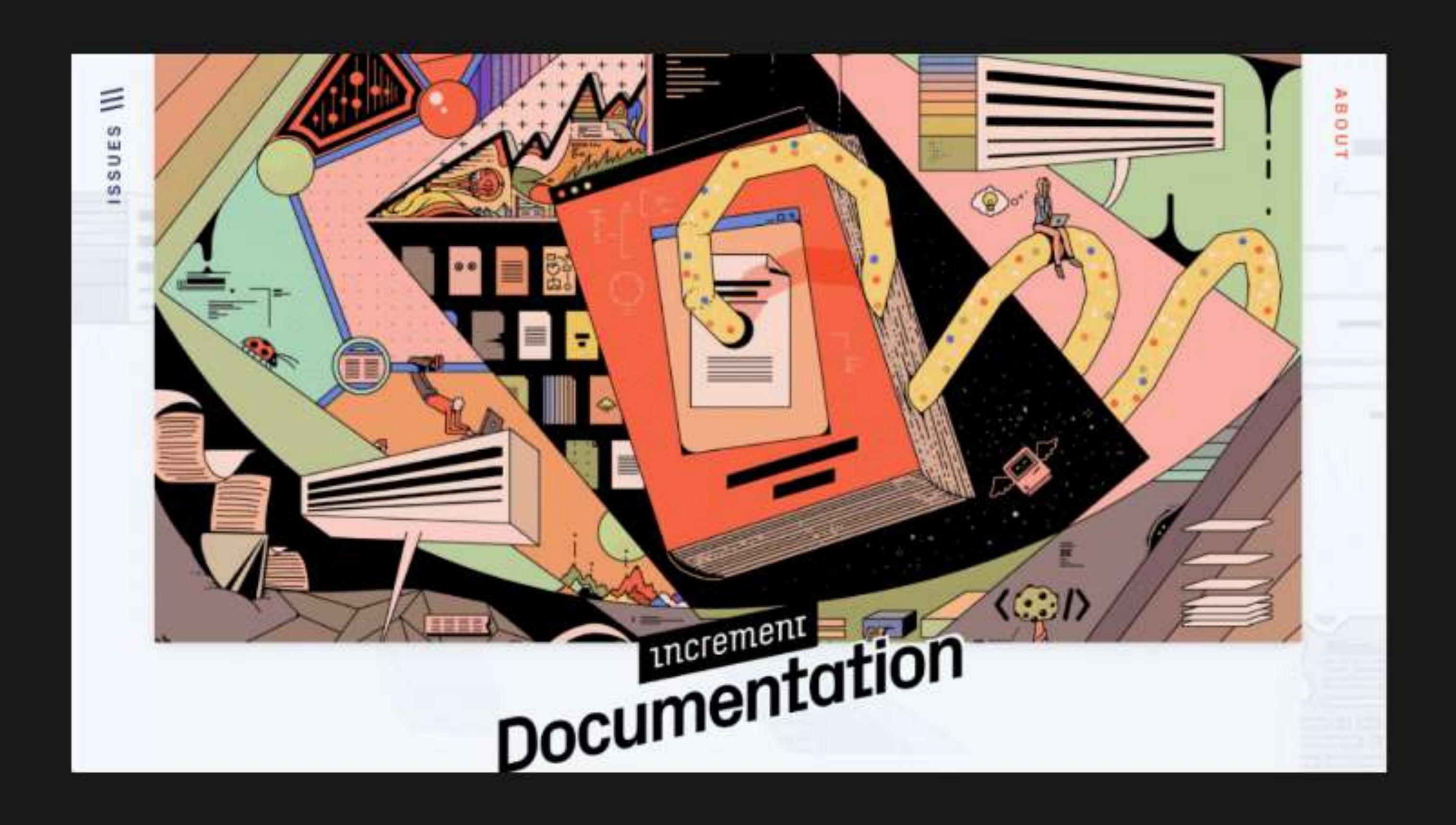


Vertical tags





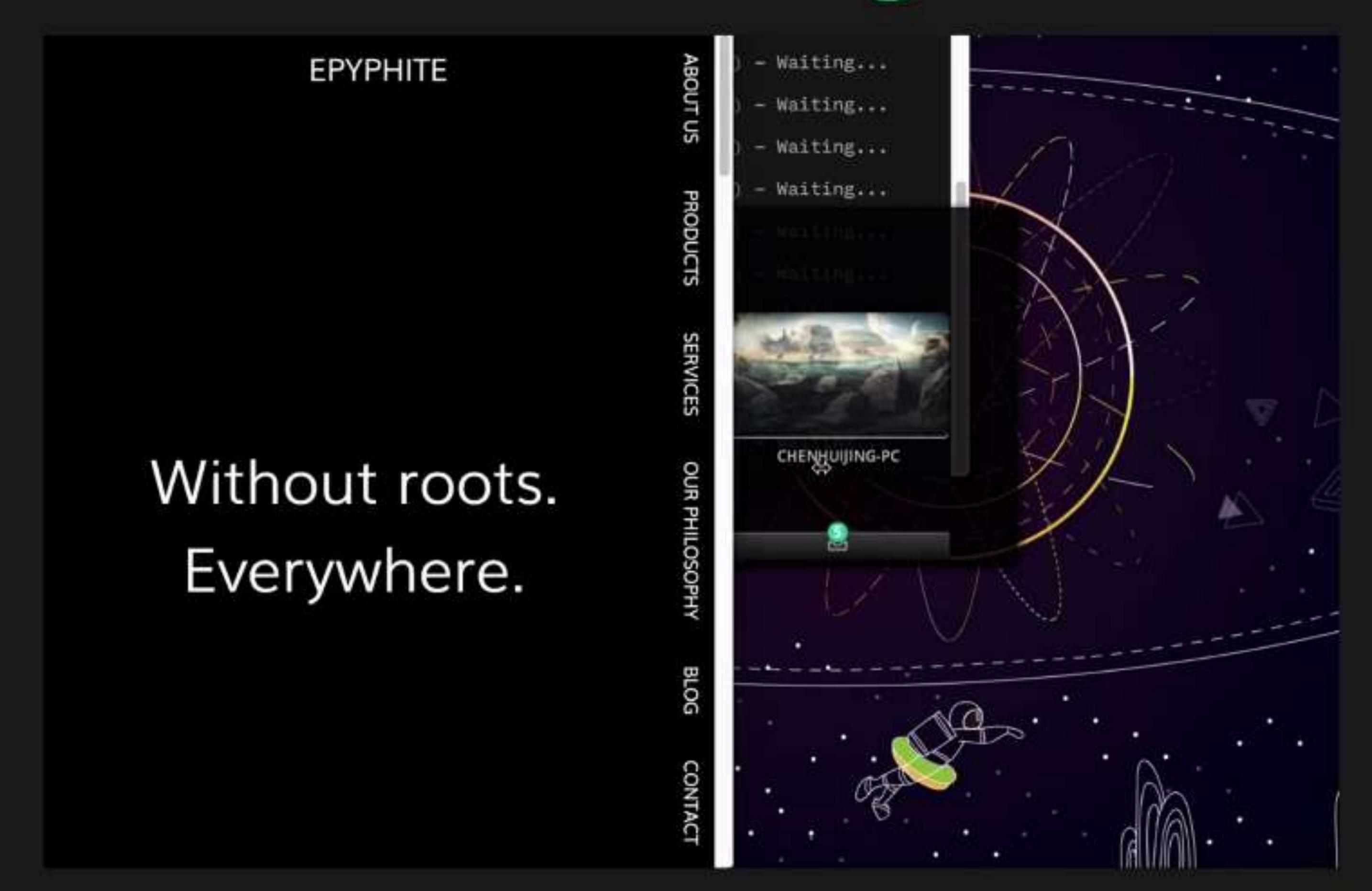
Vertical links





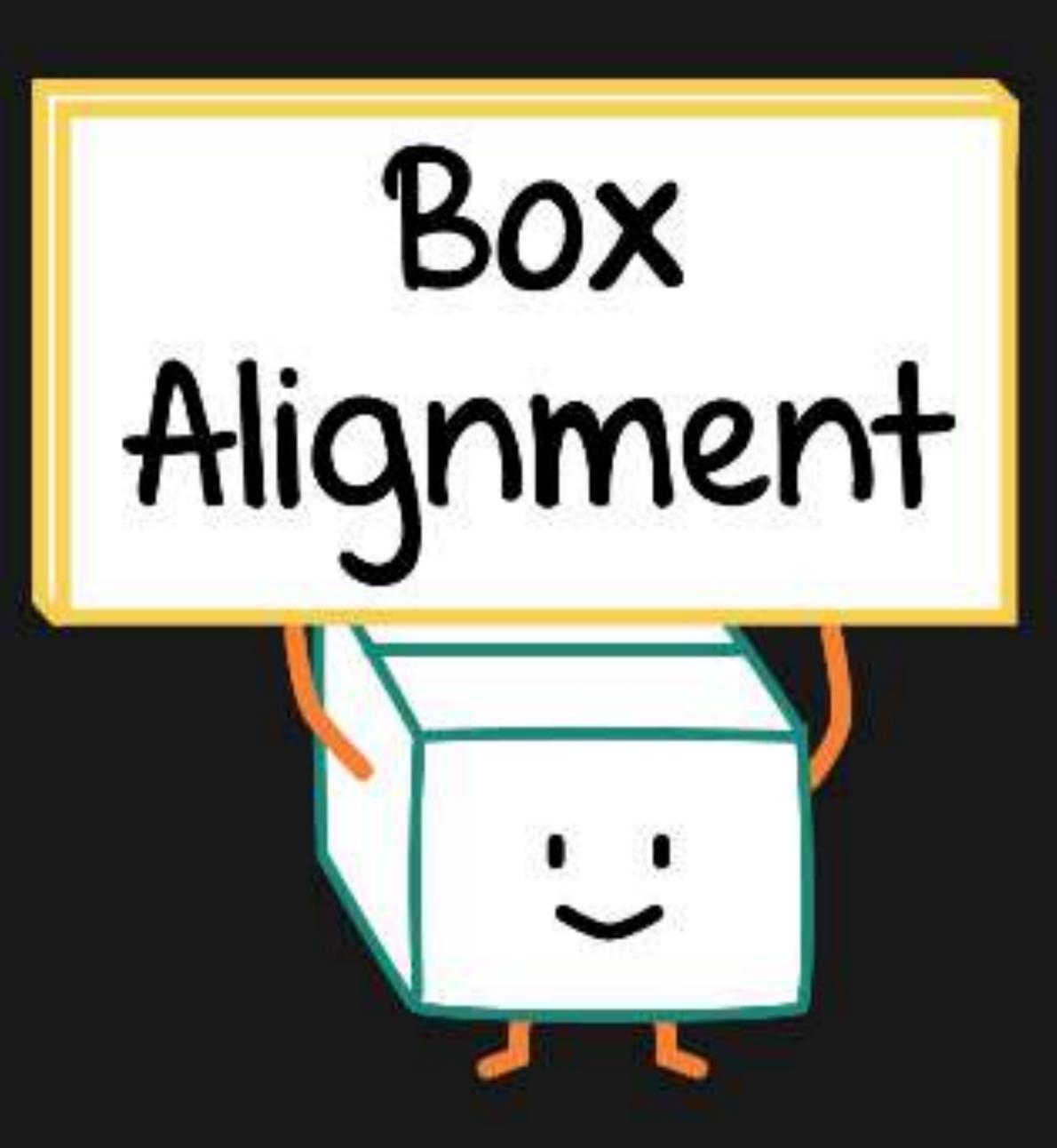


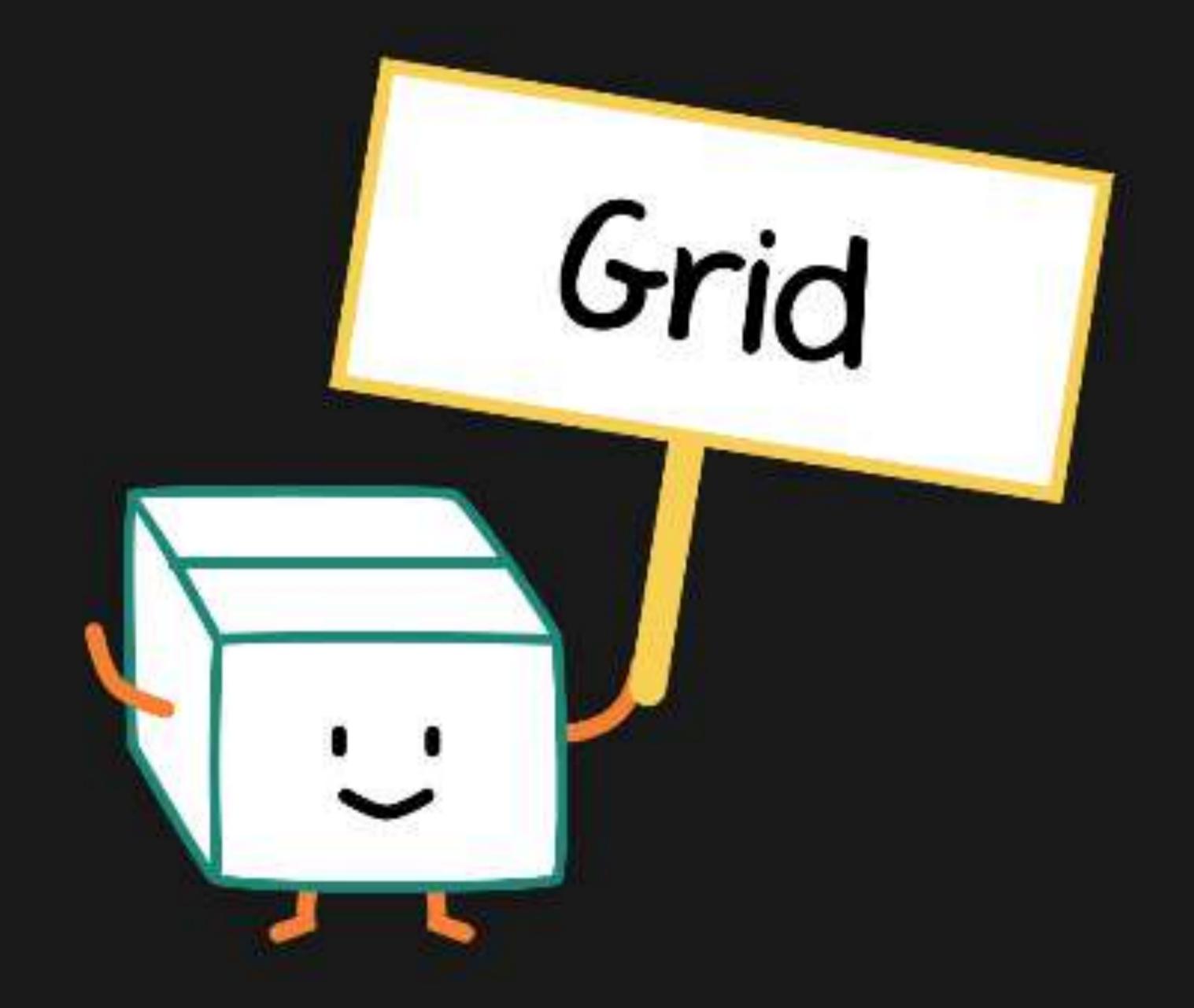
Vertical navigation











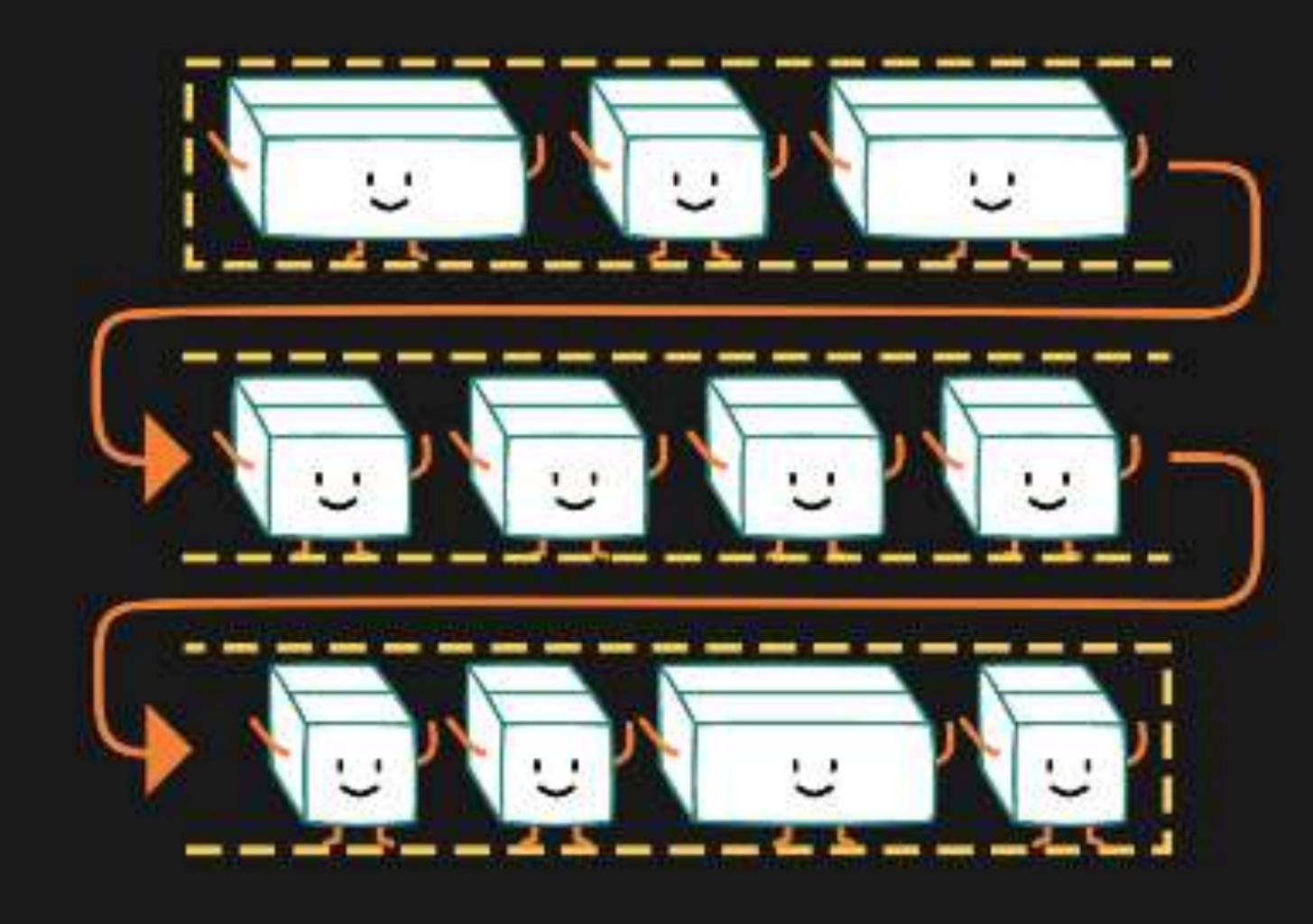
Flexbox

Provides "simple and powerful tools for distributing space and aligning content in ways that web apps and complex web pages often need."

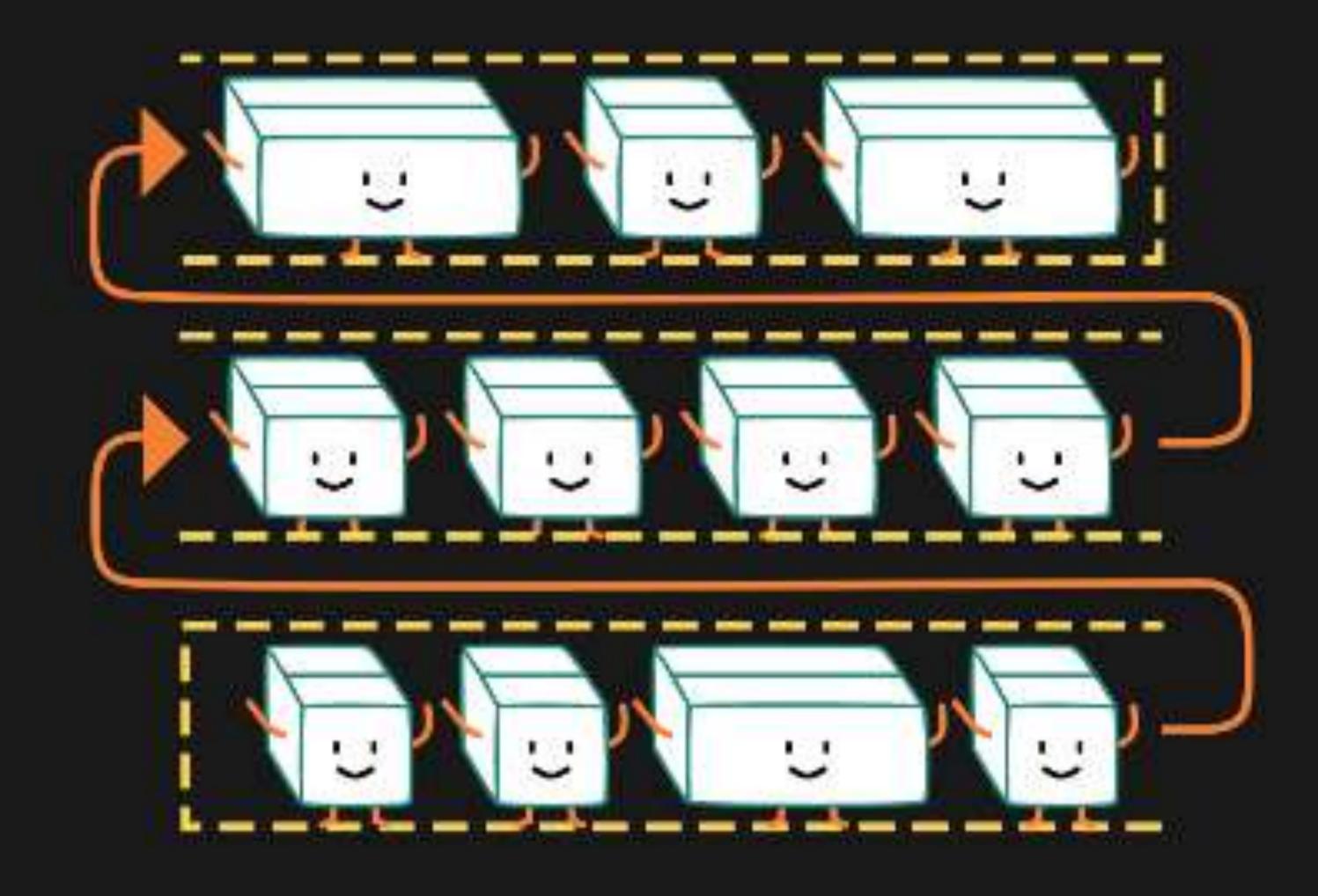
Flex lines



nowrap



wrap



wrap-reverse



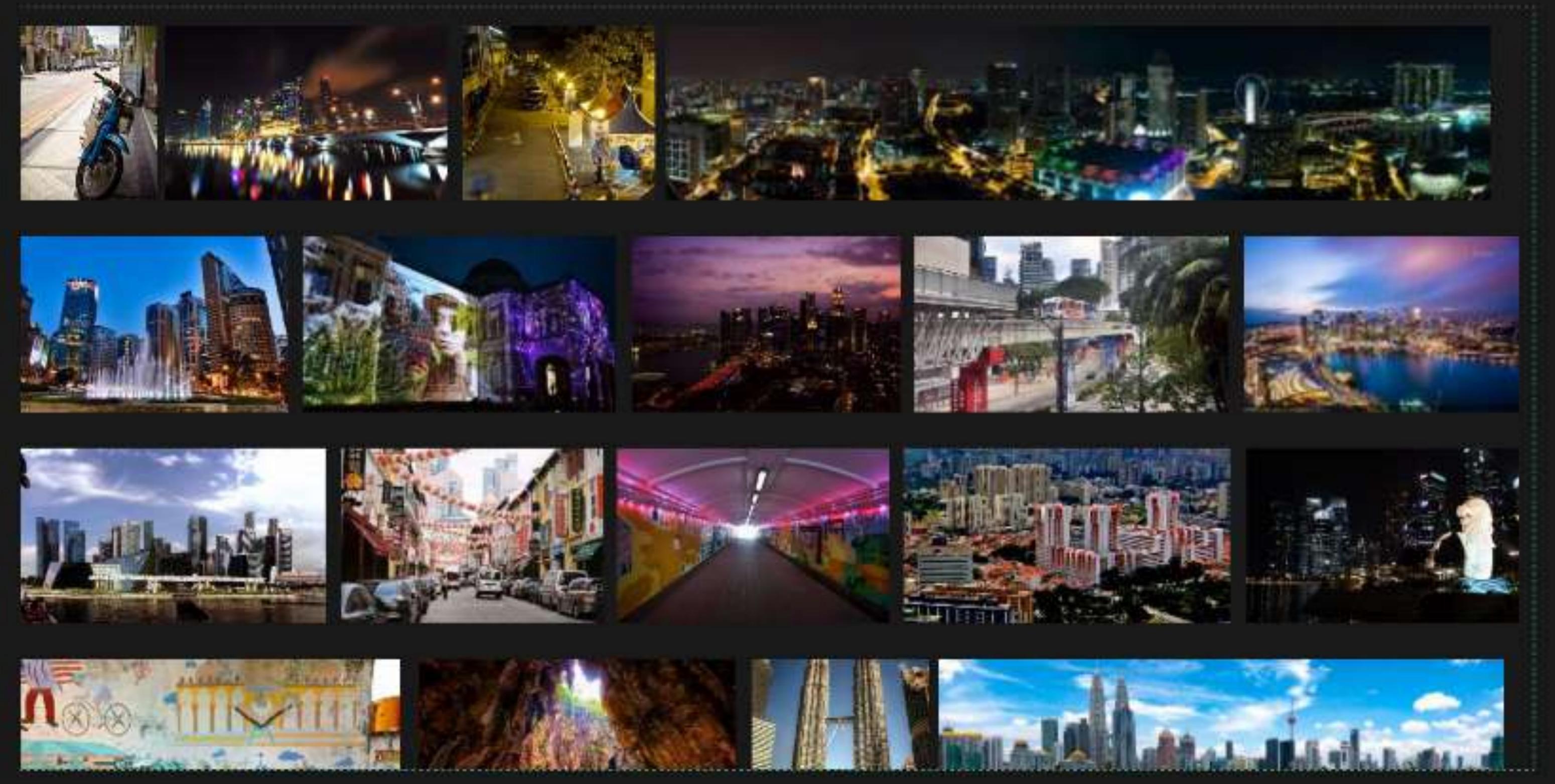
Auto-margins



```
.automargin
 display: flex;
.automargin div {
 border: 1px solid;
```



Flexbox layouts (1/2)



```
.flex-cont ul {
 display: flex;
 flex-wrap: wrap;
 align-items: center;
.flex-cont li {
 flex: 1 0 auto;
 // border: 1px solid;
.flex-cont img {
 width: 100%;
```



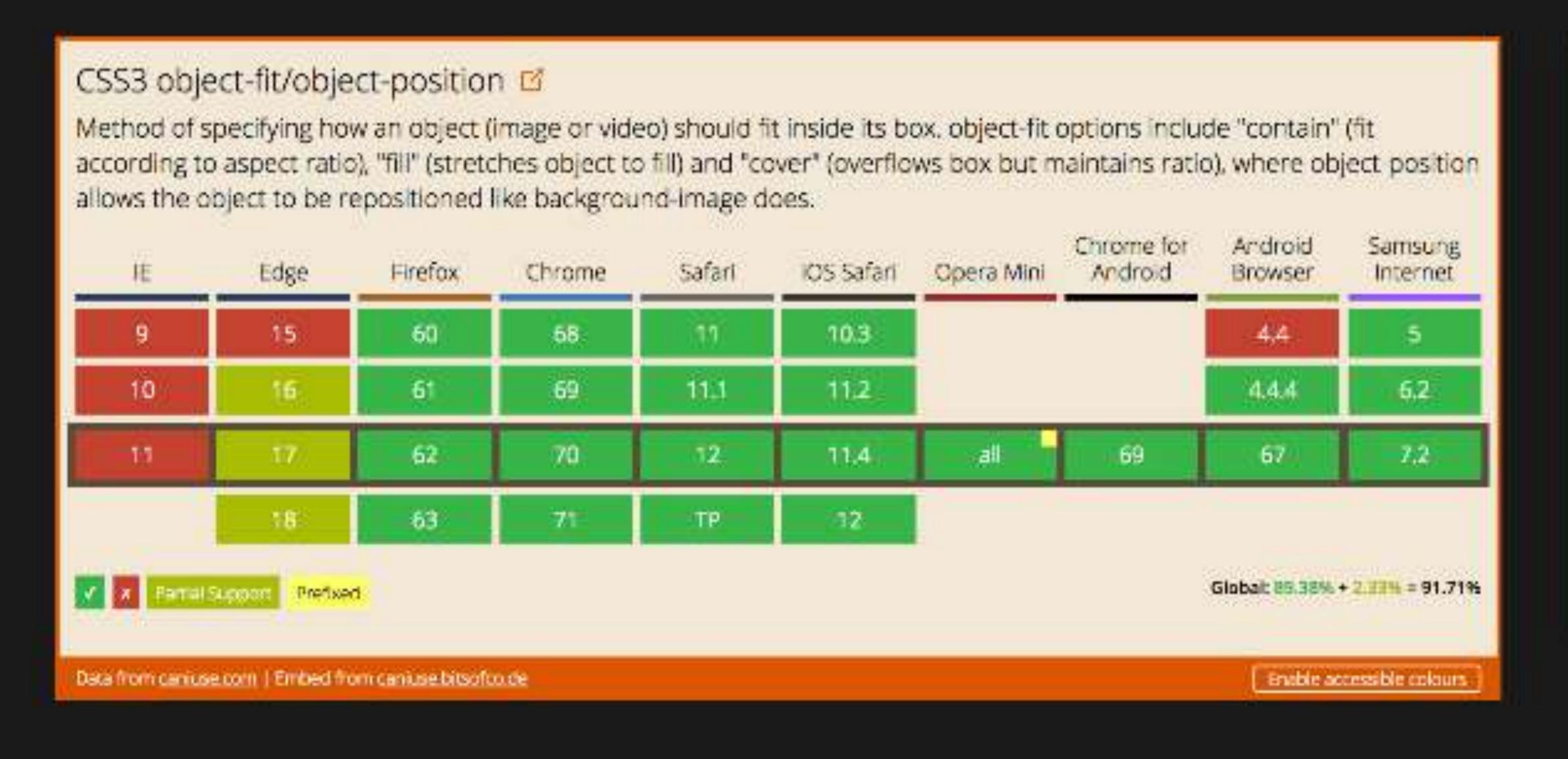
Flexbox layouts (2/2)



```
// justify-content: center;
 // align-items: center;
.flex-cont2 li {
 // border: 1px solid;
 flex: auto;
.flex-cont2 img {
 width: 5em;
 height: calc(100% - 0.5em);
 object-fit: cover;
  matain. A TEam A.
```



calc() and object-fit browser support





CSS Grid

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

Flexible tracks with fr

Represents a fraction of the free space in the grid container.

Item A	Item B	Item C	<pre>.fr { display: grid; grid-template-columns: 150px 1fr 2fr; }</pre>



Fluid CSS grid

```
.container {
  display: grid;
  grid-template-columns: repeat(3, 3fr 2fr);
}
```



Flexible tracks with minmax()

Defines a size range for columns or rows in the grid.

Item A	Item B	Item C	<pre>.minmax { display: grid; grid-template-columns: minmax(300px, 1fr) 300px 300px; }</pre>



The repeat() function

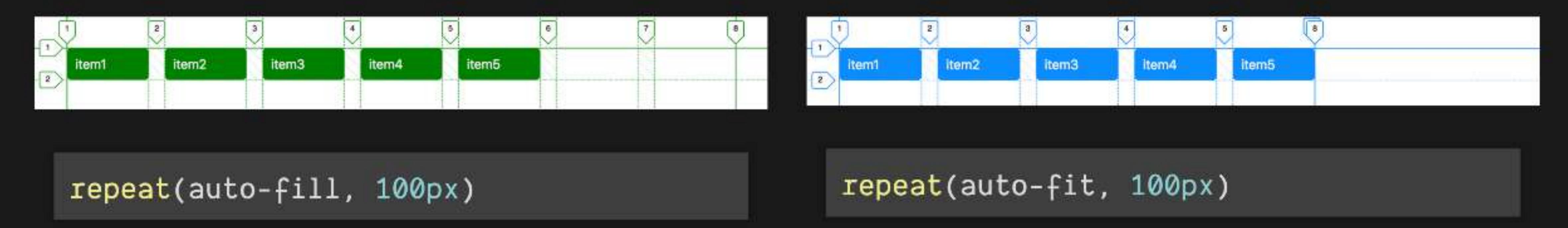
To specify a large number of columns or rows that follow a similar pattern

Item	<pre>.repeat { display: grid; grid-template-columns: repeat(4, 110px 165px); }</pre>							
------	------	------	------	------	------	------	------	--



auto-fill vs. auto-fit

Allow browser to determine how many tracks to create depending on track size.



auto-fit collapses empty tracks.



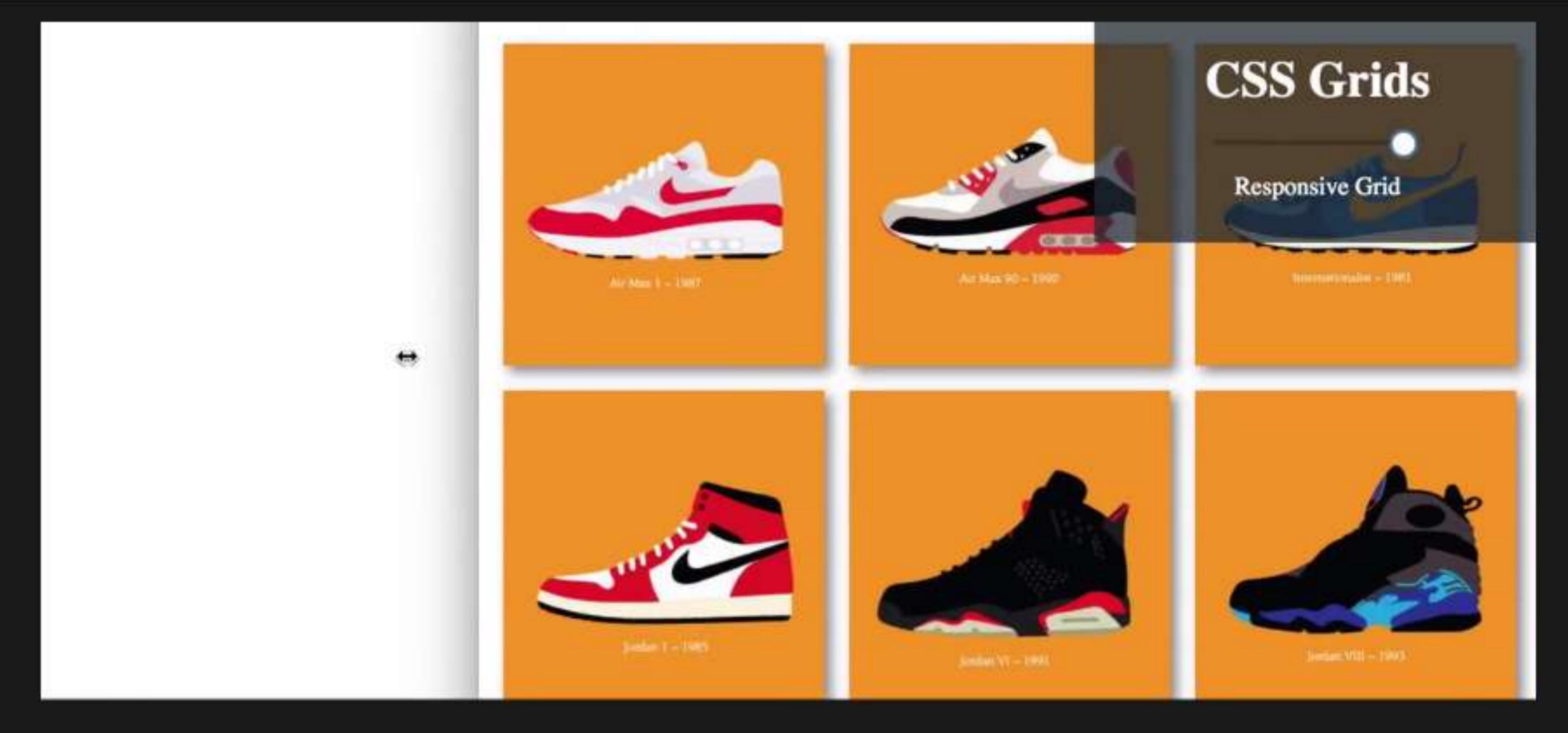
auto-fill versus auto-fit

A	В	D	F	<pre>.keyword { display: grid; grid-template-columns: repeat(auto-fill, minmax(150px, 1fr)); }</pre>
---	---	---	---	--



Responsive grid without media queries

```
.container {
  display: grid;
  grid-template-columns: repeat(auto-fill, minmax(10em, 1fr));
}
```



The implicit grid

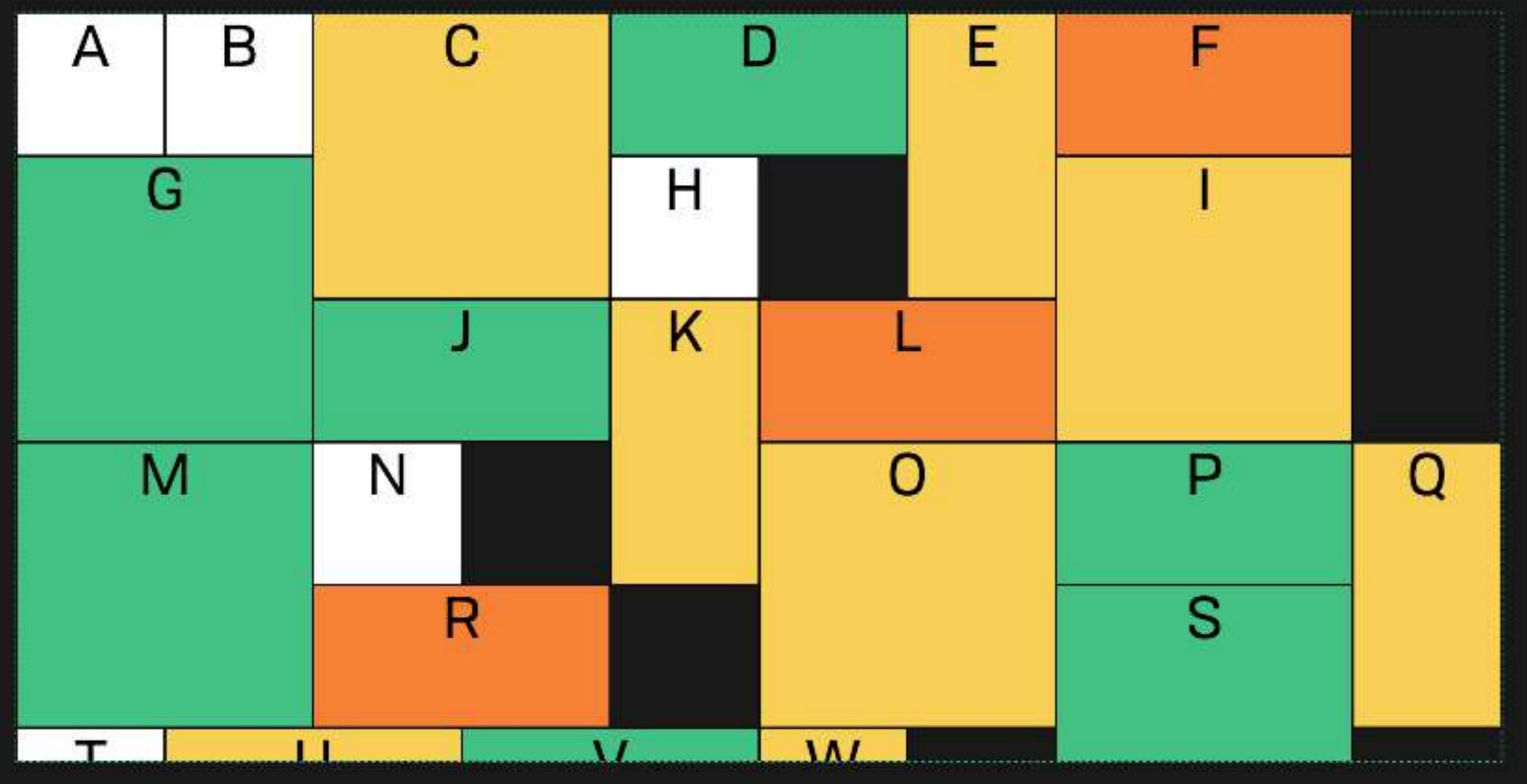
A	3	C
D		
G		
J	K	

```
.implicit {
 display: grid;
 grid-template-columns: 200px
200px 200px; /* three columns
 grid-template-rows: 200px
200px; /* two rows */
 grid-auto-columns: ;
 grid-column: ;
```



The grid-auto-flow property

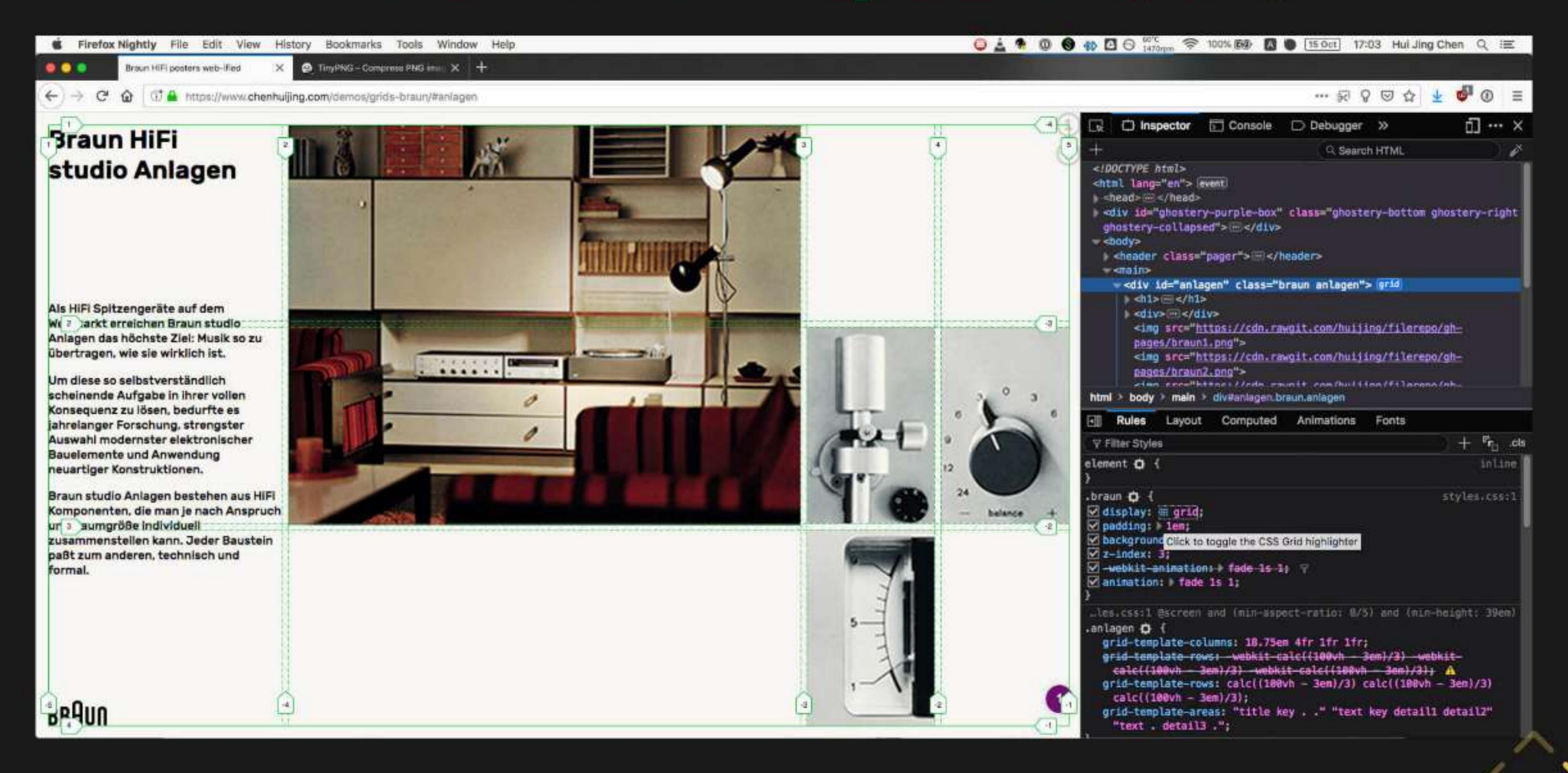
Adjusting the direction and density of grid items



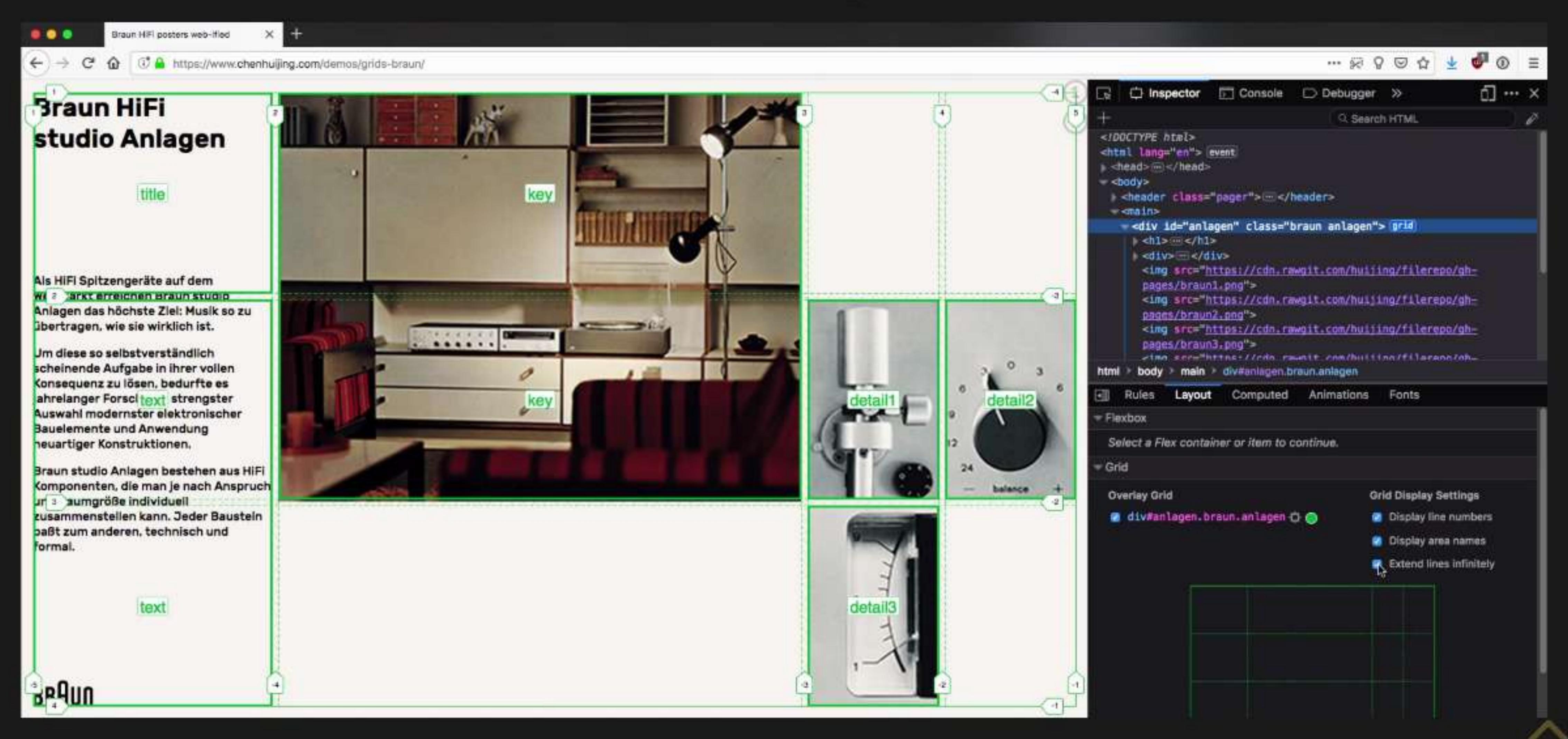
```
.autoflow {
 display: grid;
 grid-template-columns:
repeat(auto-fit, minmax(120px,
1fr));
 grid-auto-rows: 120px;
 grid-auto-flow: row;
.autoflow__item:nth-child(3n)
  background-color: #f48136;
 grid-column-end: span 2;
```

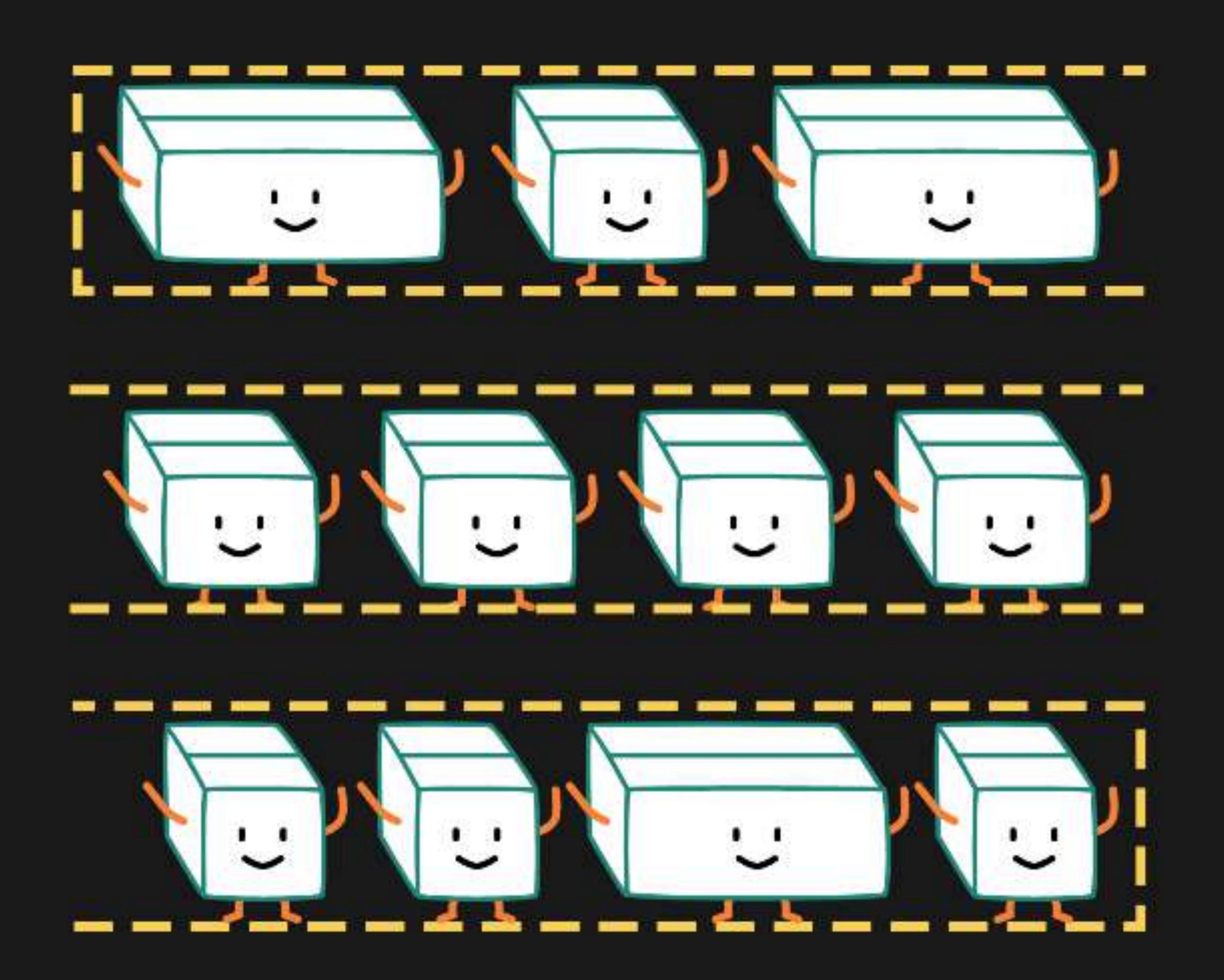


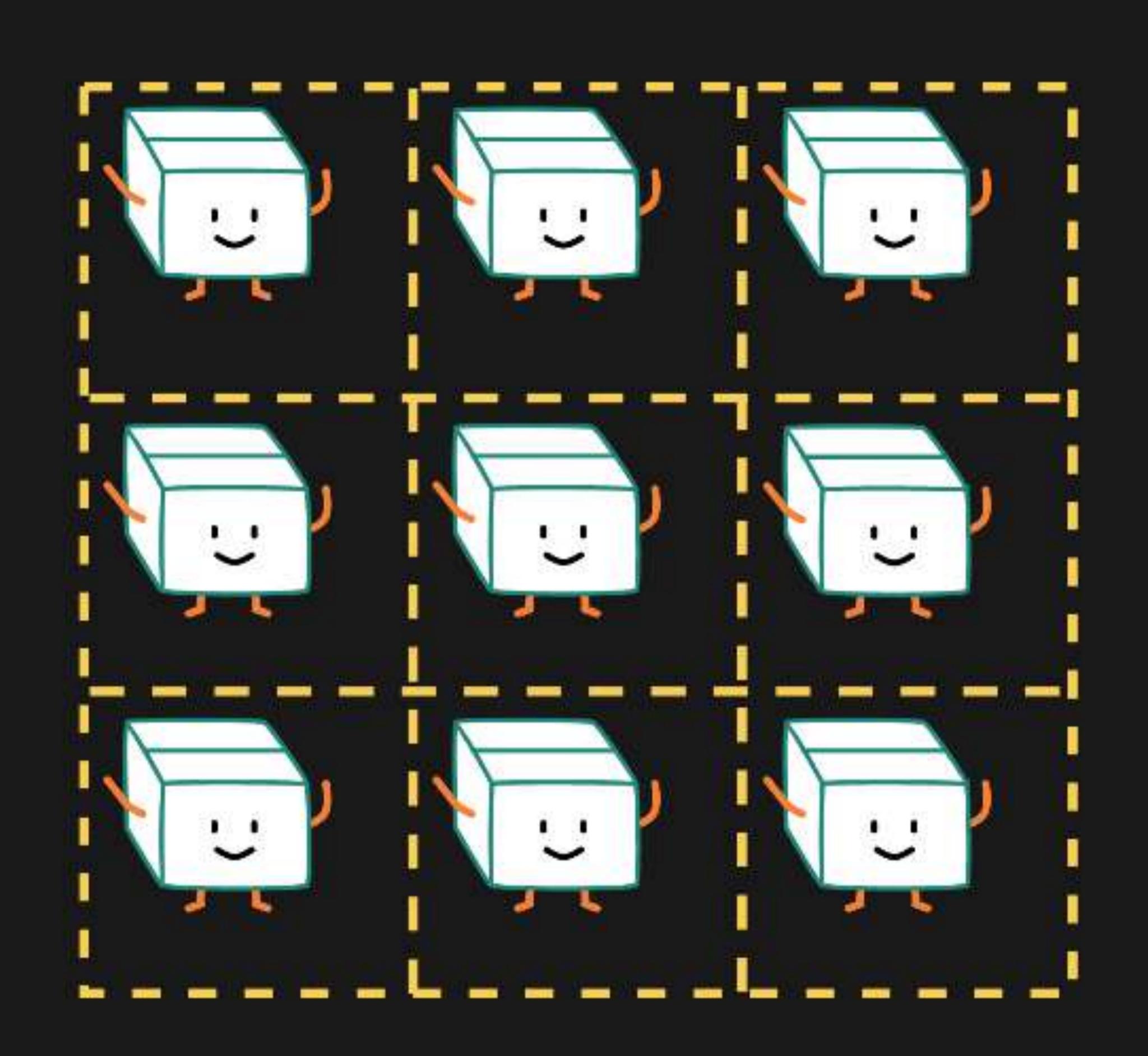
Firefox Grid Inspector (1/2)



Firefox Grid Inspector (2/2)







They no longer 'listen' to circumstances; they 'recite their circumstances'.

-Bruce Lee

√	animation	CSS Animations Level I	WD
✓	animation-delay	CSS Animations Level I	WD
√	animation-direction	CSS Animations Level I	WD
✓	animation-duration	CSS Animations Level I	WD
✓	animation-fill-mode	CSS Animations Level I	WD
✓	animation-iteration-count	CSS Animations Level I	WD
✓	animation-name	CSS Animations Level I	WD
√	animation-play-state	CSS Animations Level I	WD
√	animation-timing-function	CSS Animations Level I	WD
✓	appearance	CSS Basic User Interface Module Level 4	WD
1	azimuth	CSS 2.1	REC
✓	background	CSS 2.1	REC
1	background	CSS Backgrounds and Borders Module Level 3	CR
1	background-attachment	CSS 2.1	REC
1	background-attachment	CSS Backgrounds and Borders Module Level 3	CR
✓	background-blend-mode	Compositing and Blending Level I	CR
1	background-clip	CSS Backgrounds and Borders Module Level 3	CR
✓	background-color	CSS 2.1	REC
1	background-color	CSS Backgrounds and Borders Module Level 3	CR
1	background-image	CSS 2.1	REC
1	background-image	CSS Backgrounds and Borders Module Level 3	CR
1	background-origin	CSS Backgrounds and Borders Module Level 3	CR
√	background-position	CSS 2.1	REC
1	background-position	CSS Backgrounds and Borders Module Level 3	CR
✓	background-repeat	CSS 2.1	REC

Really recommended reading

- CSS Isn't Black Magic
- Six Layout Myths Busted
- List of CSS properties, both proposed and standard
- CSS Inheritance, The Cascade And Global Scope: Your New Old Worst Best Friends
- History of Flexbox
- Use cases for Flexbox

- 11 things I learned reading the flexbox spec
- Deep Dive into Grid Layout Placement
- CSS Grid Layout and positioned items
- Powerful New Additions to the CSS Grid Inspector in Firefox Nightly
- There are maps for these territories
- The Way We Talk About CSS

True observation begins when one is devoid of set patterns, and freedom of expression occurs when one is beyond systems.

-Bruce Lee

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Thank you!

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