The web

IS READY FOR

great graphic design

HIDDE DE VRIES, 16/06/2018

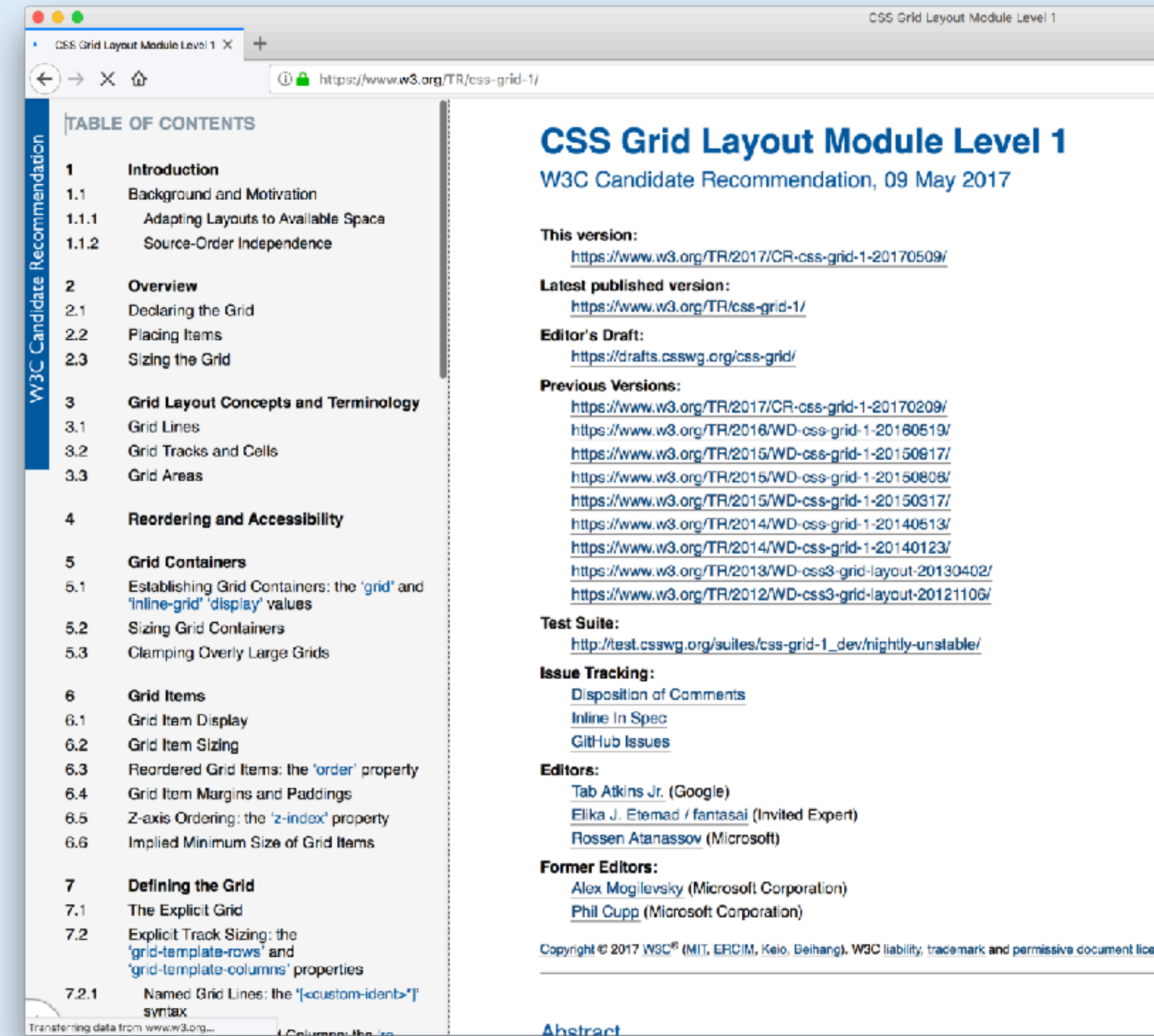CSS DAY, AMSTERDAM

@hdv

Hi, I'm Hidde.

GRAPHIC DESIGN
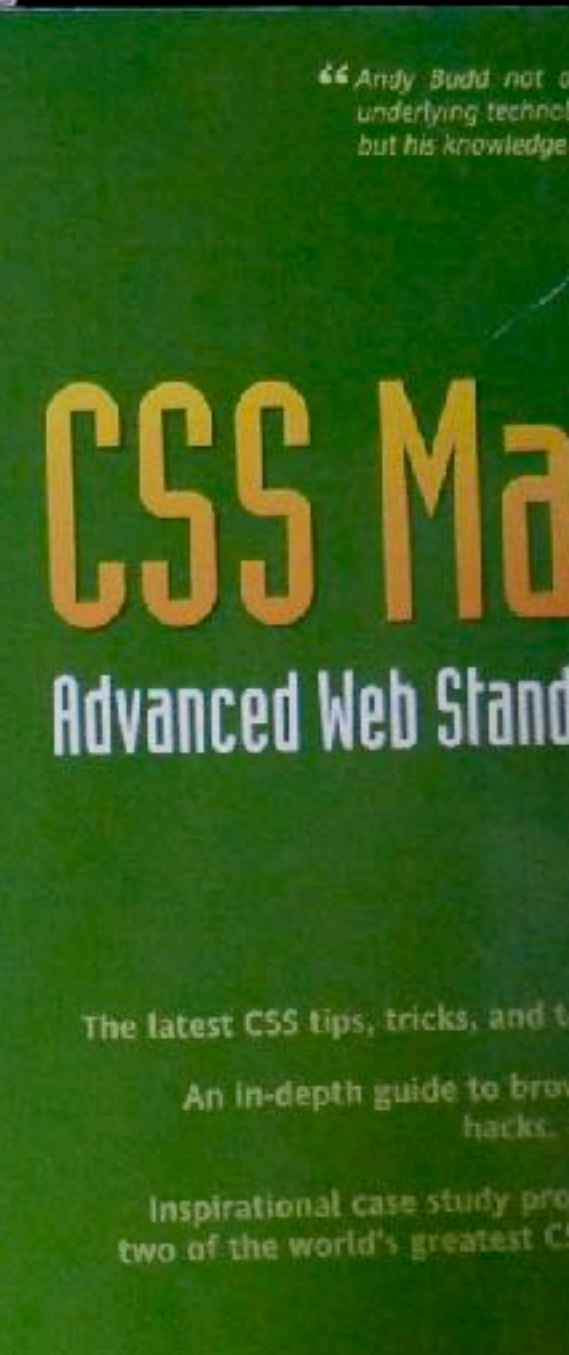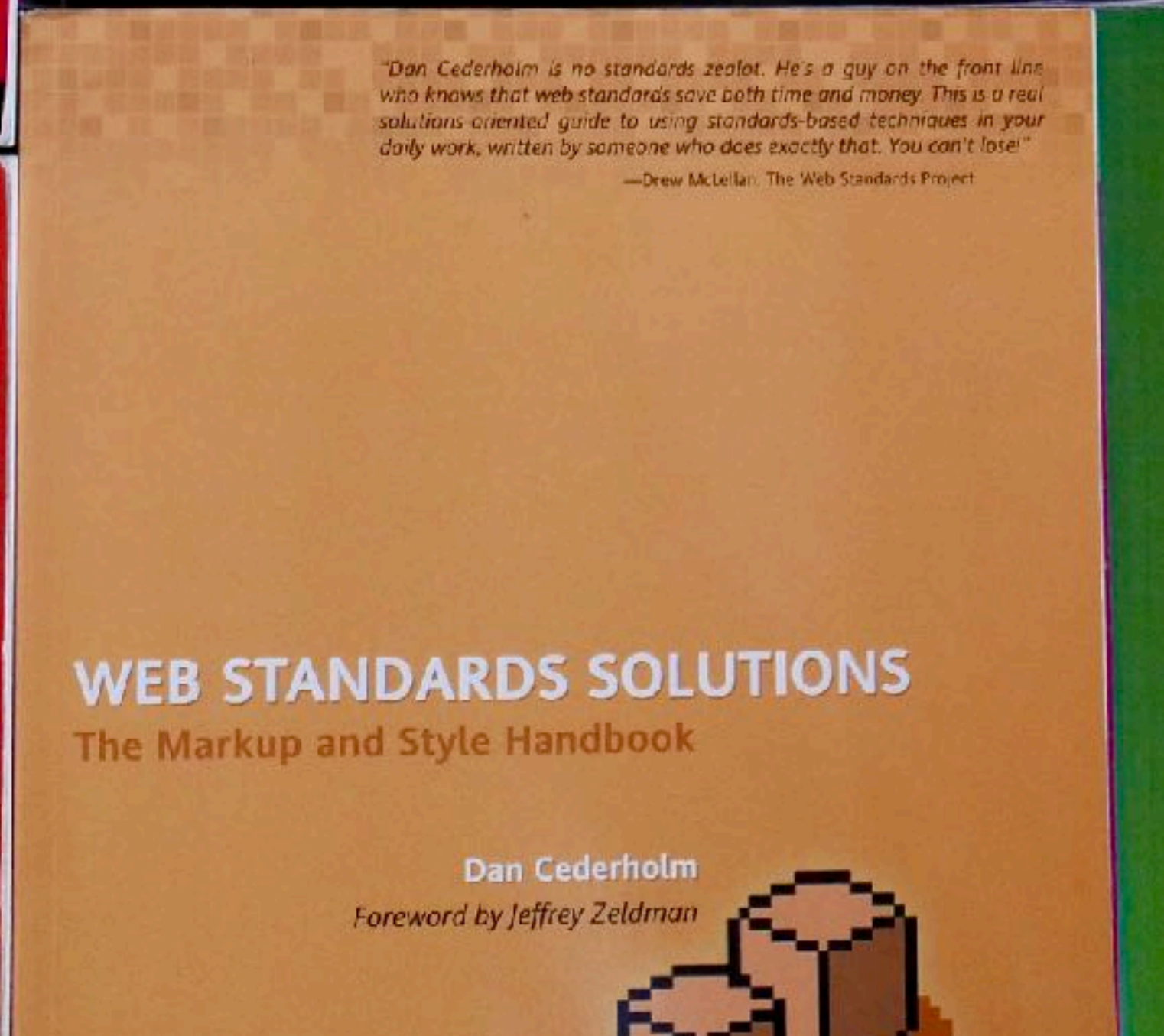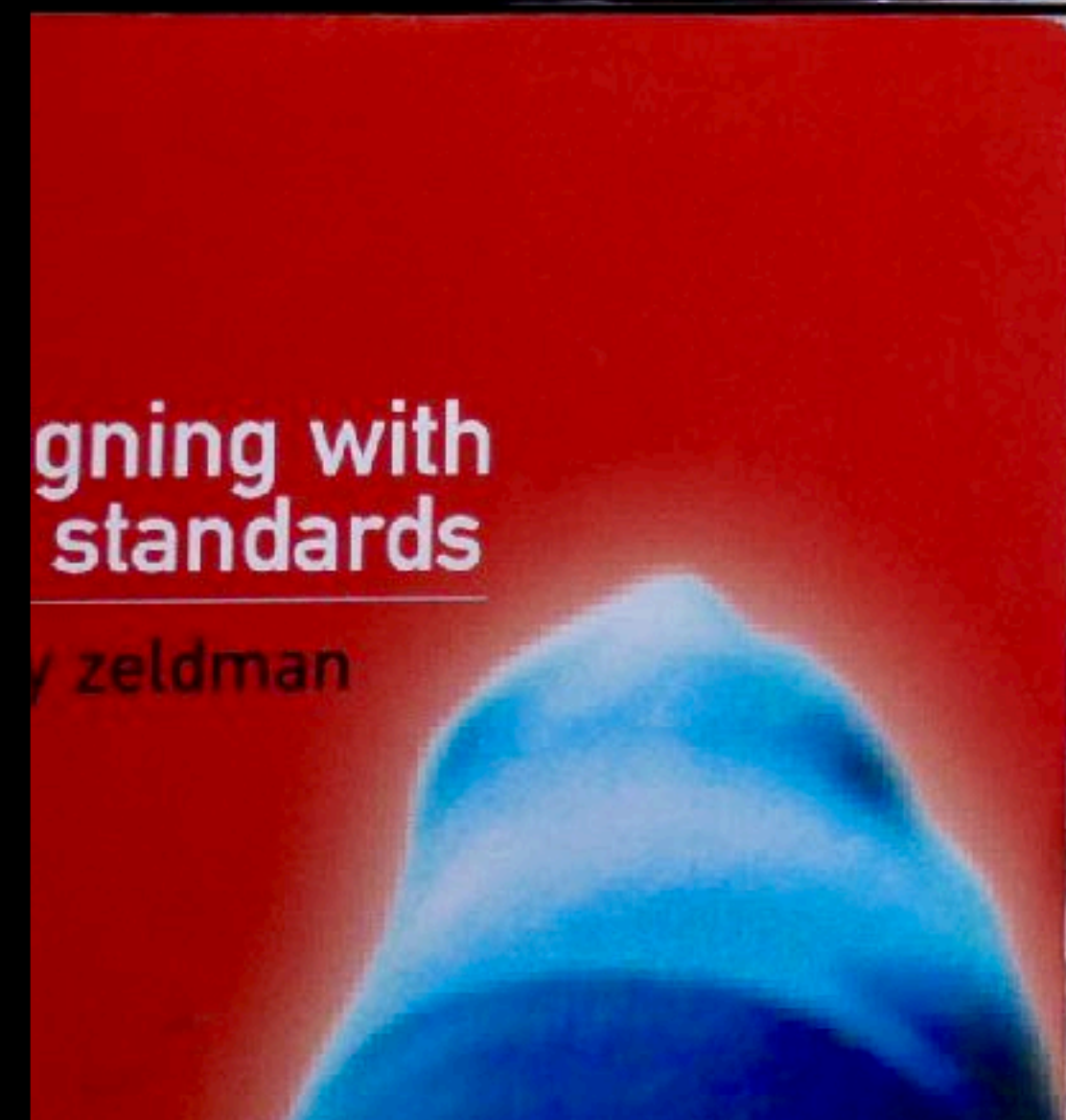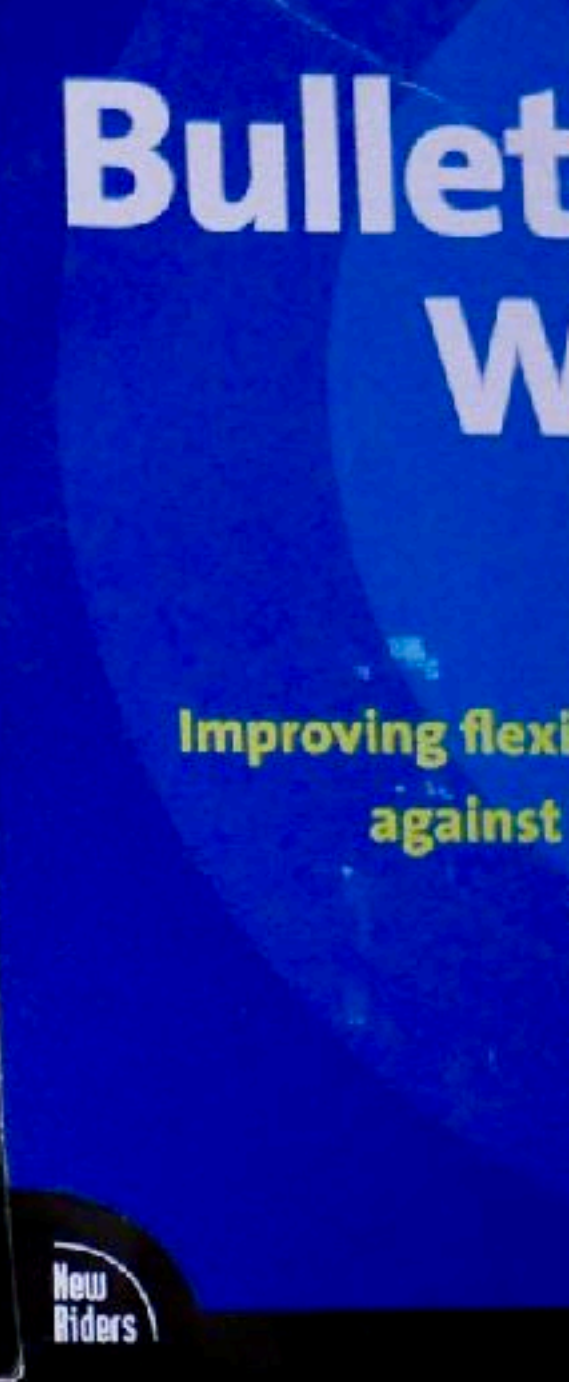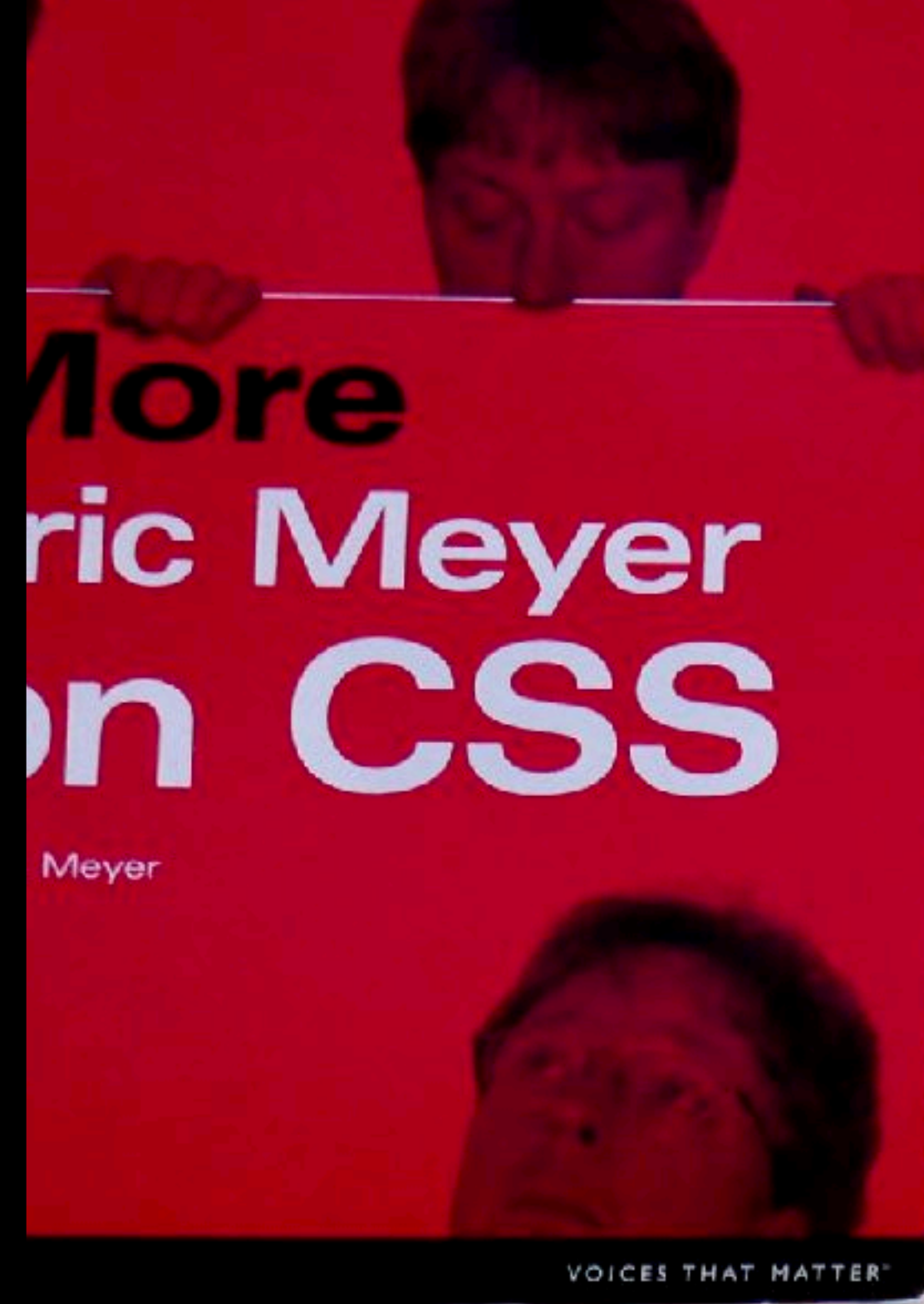## and the WEB

*"We're going to run a few workshops to **collect feedback** and to get your help with **making the spec better** and **easier to understand** "*
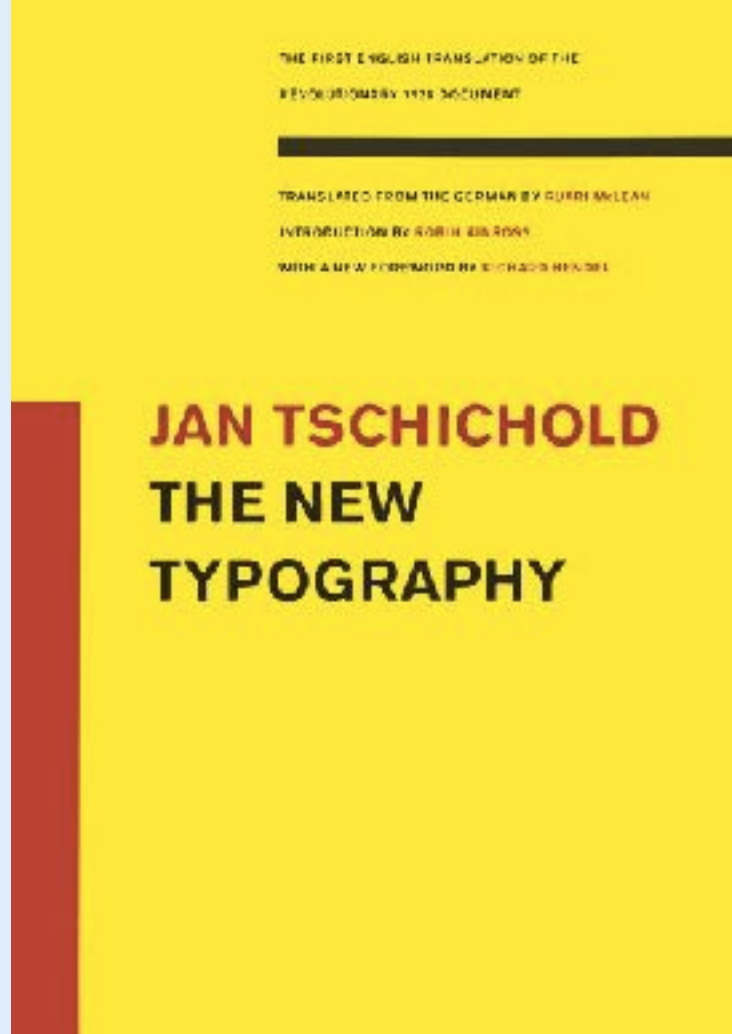
— Fantasai

@hdv

@hdv

Detail in typography

Grid systems
in graphic design

Raster
für die
visuelle Gestaltung

JAN TSCHICHOLD
THE NEW
TYPOGRAPHY

an helderheid
ontwerpbureaus
hisme in Nederland,

wim crouwe

More
Eric Meyer
on CSS

Meyer

VOICES THAT MATTER

signing with
standards

zeldman

INTRODUCTION BY ANDY BUDD, AUTHOR OF CSS MASTERY

WEB STANDARDS
CREATIVITY

Innovations in Web Design with
XHTML, CSS, and DOM Scripting

friendsof
an Apress company

"Dan Cederholm is no standards zealot. He's a guy on the front line
who knows that web standards save both time and money. This is a real
solutions-oriented guide to using standards-based techniques in your
daily work, written by someone who does exactly that. You can't lose!"
— Drew McLellan, The Web Standards Project

WEB STANDARDS SOLUTIONS

The Markup and Style Handbook

Dan Cederholm
Foreword by Jeffrey Zeldman

Bullet
W

Improving flex
against

New
Riders

Andy Budd not
underlying technic
but his knowledge

CSS Ma

Advanced Web Stand

The latest CSS tips, tricks, and

An in-depth guide to br
hack

Inspirational case study pro
two of the world's greatest

@hdv

It's a new era for design and lay-out on the web

what is GREAT GRAPHIC DESIGN?

Modernism in graphic design

Die neue Typography

Jan Tschichold, 1928

Modern times require function over form.

Clarity, more than 'beauty'.

@hdv

Asymmetric alignment is more effective

@hdv

STATISTIK DER EHESCHEIDUNGEN IN DEUTSCHLAND
JAN TSCHICHOLD: Poster 1926, Normformat A

Design so that the eye is lead from one word (or group of words) to the next

@hdv

> ***If we think clearly and approach each task with a fresh and determined mind, a good solution will usually result.*"**

— Jan Tschichold

In: *The New Typography, 69.*

Raster systeme für die visuele Gestaltung

Josef Müller-Brockmann, 1981
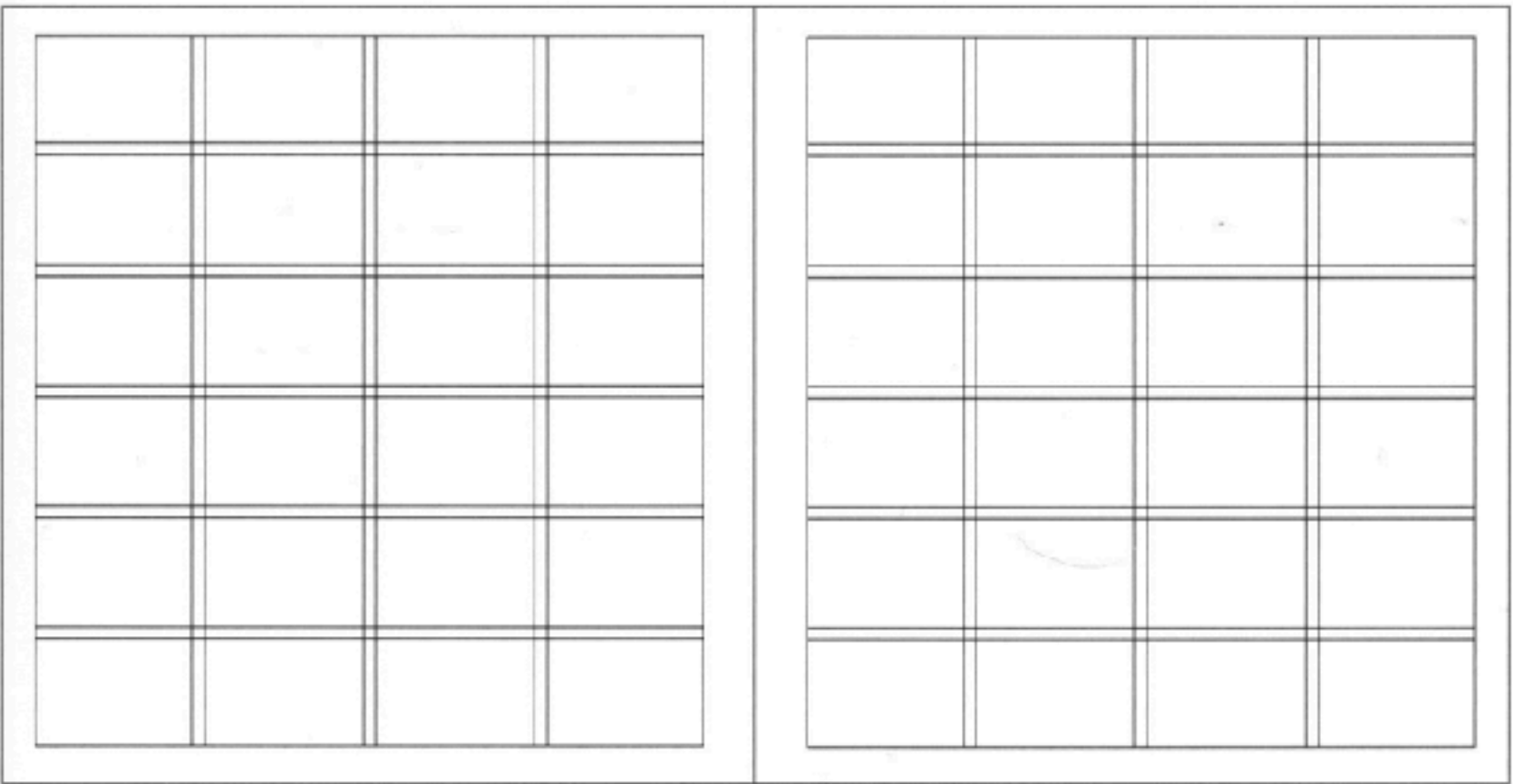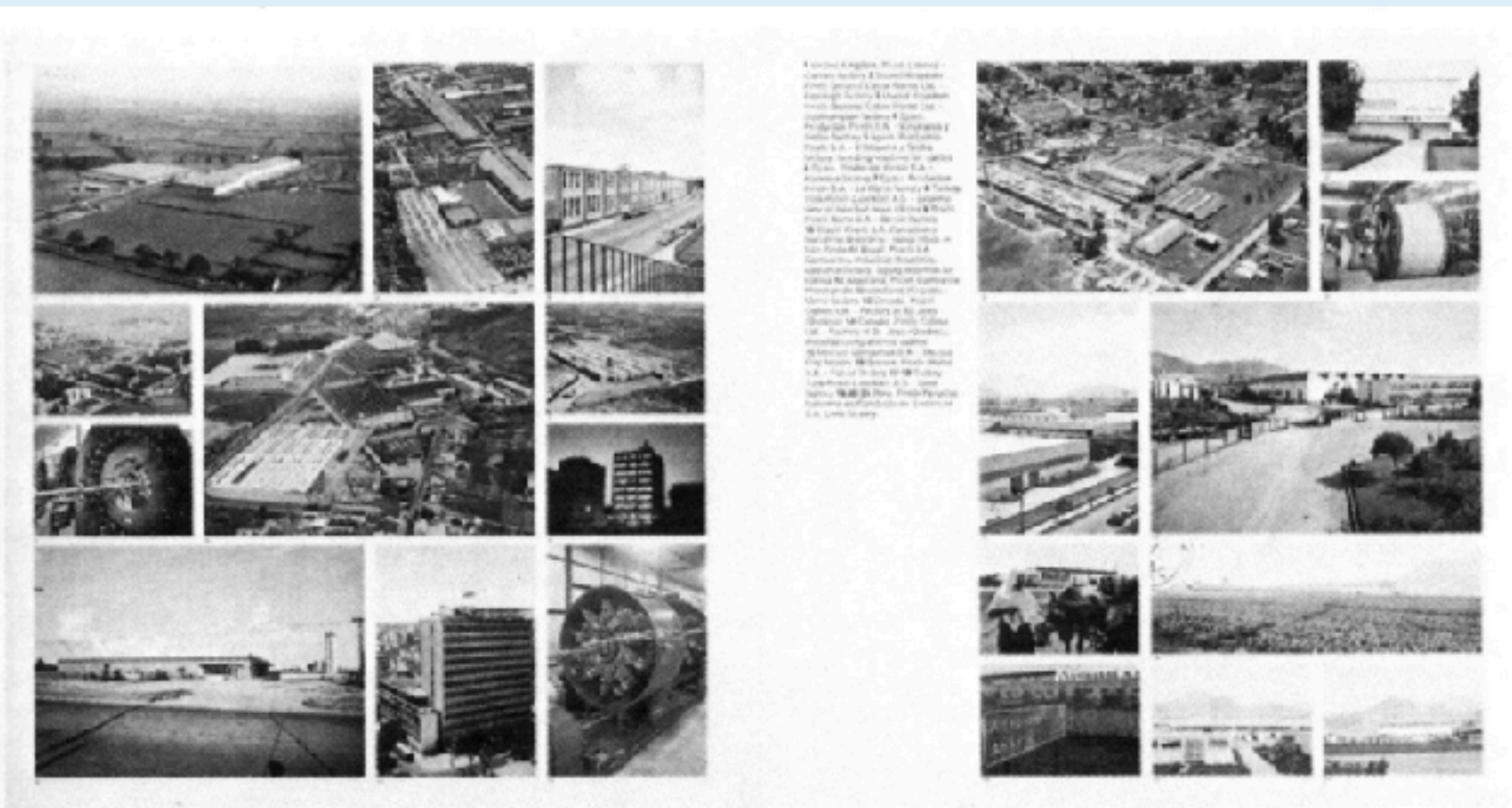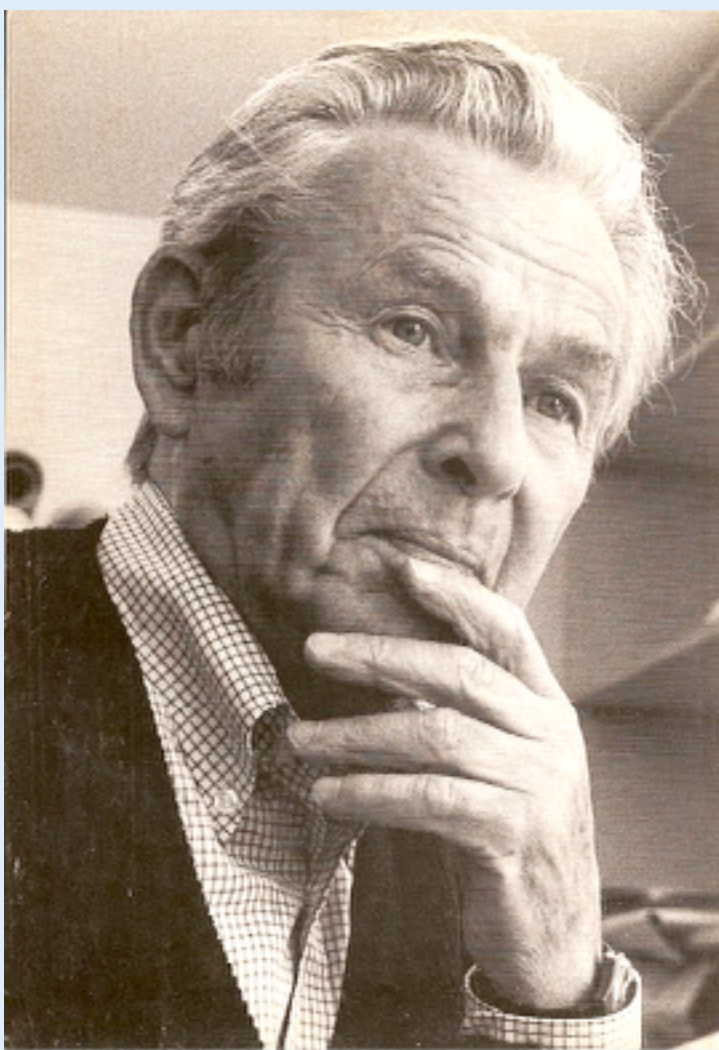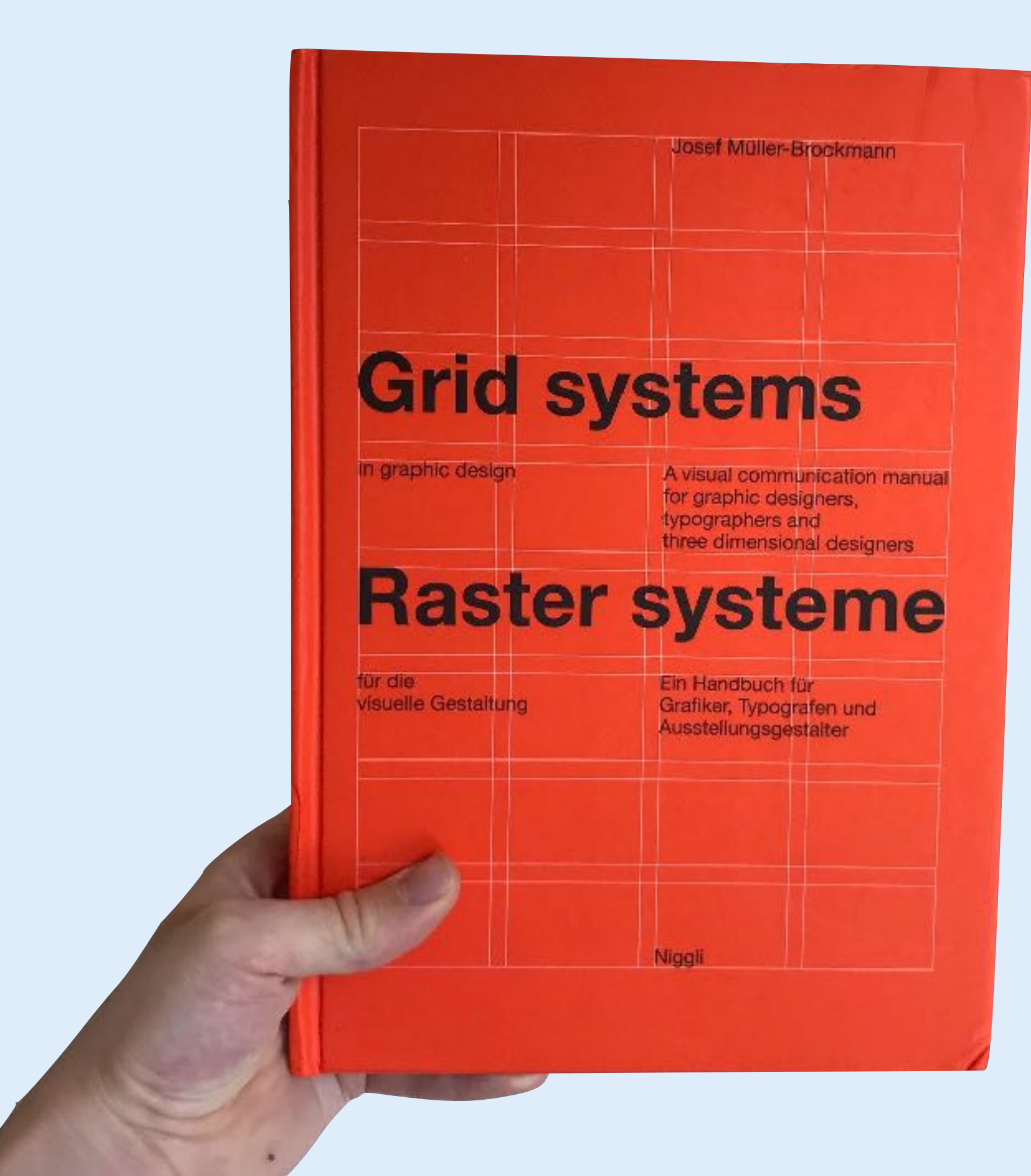
functional

logical

Why grids?

more aesthetically pleasing

> **The grid makes it easier to give the surface or space a rational organization.**
>
> — Joseph Müller-Brockmann
> In: *Grid systems 11.*

"Grid fields"
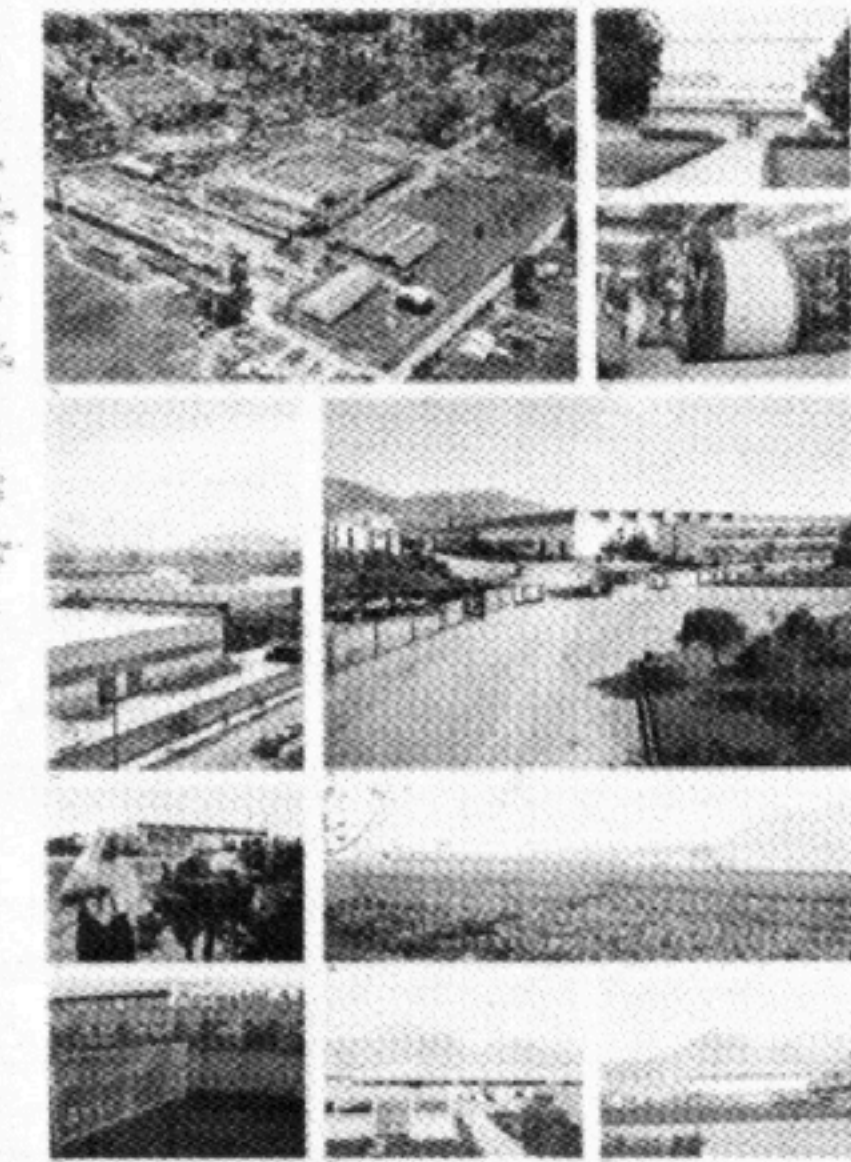
Just as every problem is novel and different from others, so the grid must be conceived afresh every time so as to meet requirements. This means that the designer must approach each new problem with an open mind and must seek to solve it by analysing it objectively.
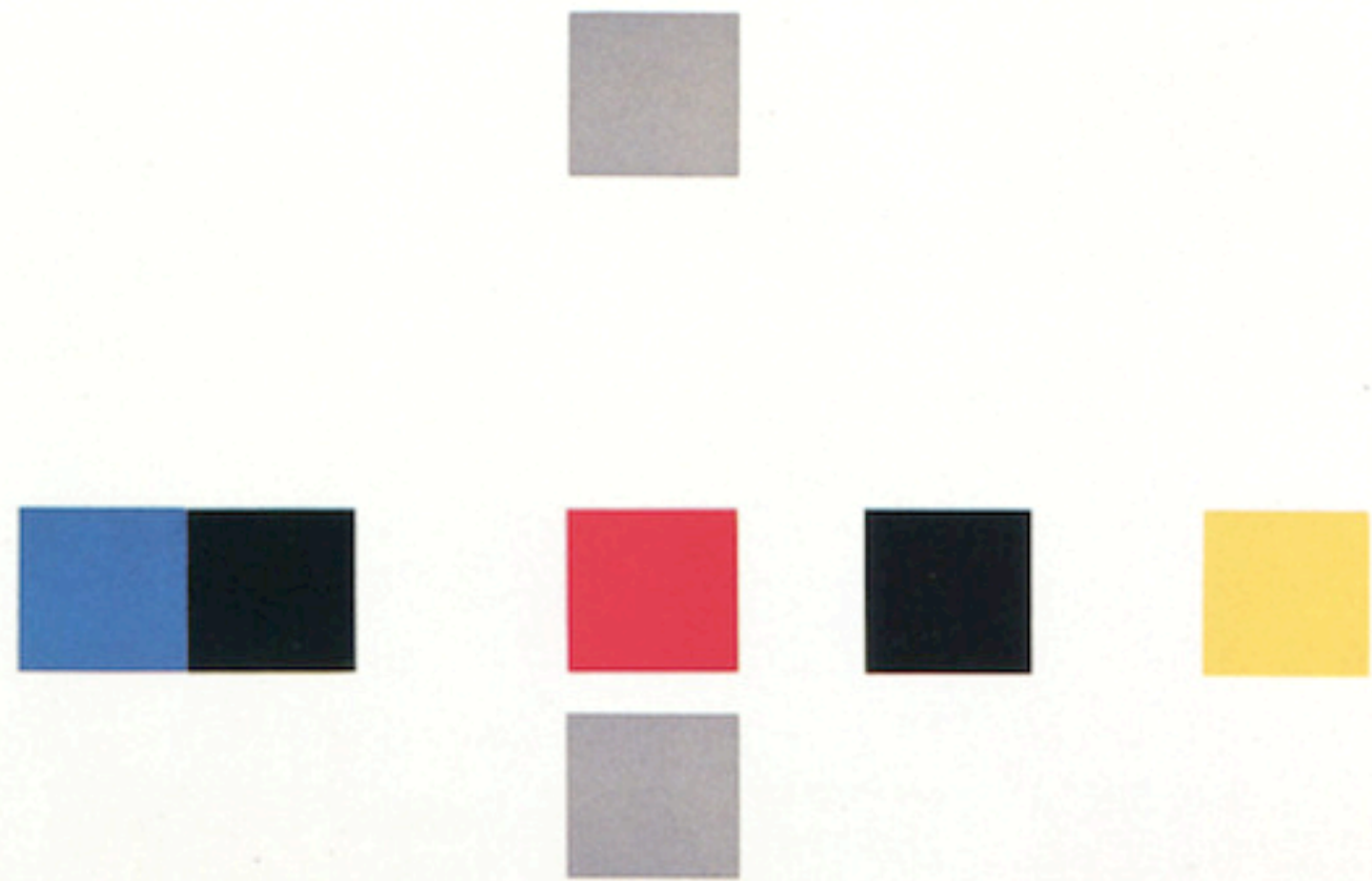
Sizing grid areas with mathematical proportions

@hdv

Sizing grid areas with mathematical proportions

The poster text reads:

dienstag, den 7. januar 1958
20.15 uhr großer tonhallesaal
12. volkskonzert
der tonhalle-gesellschaft
zürich
als drittes konzert
im zyklus «musica viva»
leitung hans rosbaud
solisten alfred baum klavier
andré jaunet flöte

schweizerische erstaufführungen
andré jolivet
cinque danses rituelles
ernst krenek
zweites klavierkonzert
luigi nono
«y su sangre va vienne cantando»
musik für flöte und kleines orchester
bernd aloys zimmermann
sinfonie in einem satz

musica viva

karten fr. 1.-, 2.- und 3.-
vorverkauf tonhallekasse hug
jecklin kuoni
genossenschaftsbuchhandlung

Poster 1 (left): kunstenaars uit **brabant** — stedelijk van abbemuseum eindhoven. dagelijks geopend van 10-17 uur, zondag van 13-17 uur, dinsdag - en donderdagavond van 20-22 uur. 1 november t/m 1 december 1957.

Poster 2 (right): **beeldje voor beeldje** — een tentoonstelling over nederlandse animatiefilms.

Posters: Wim Crouwel

@hdv
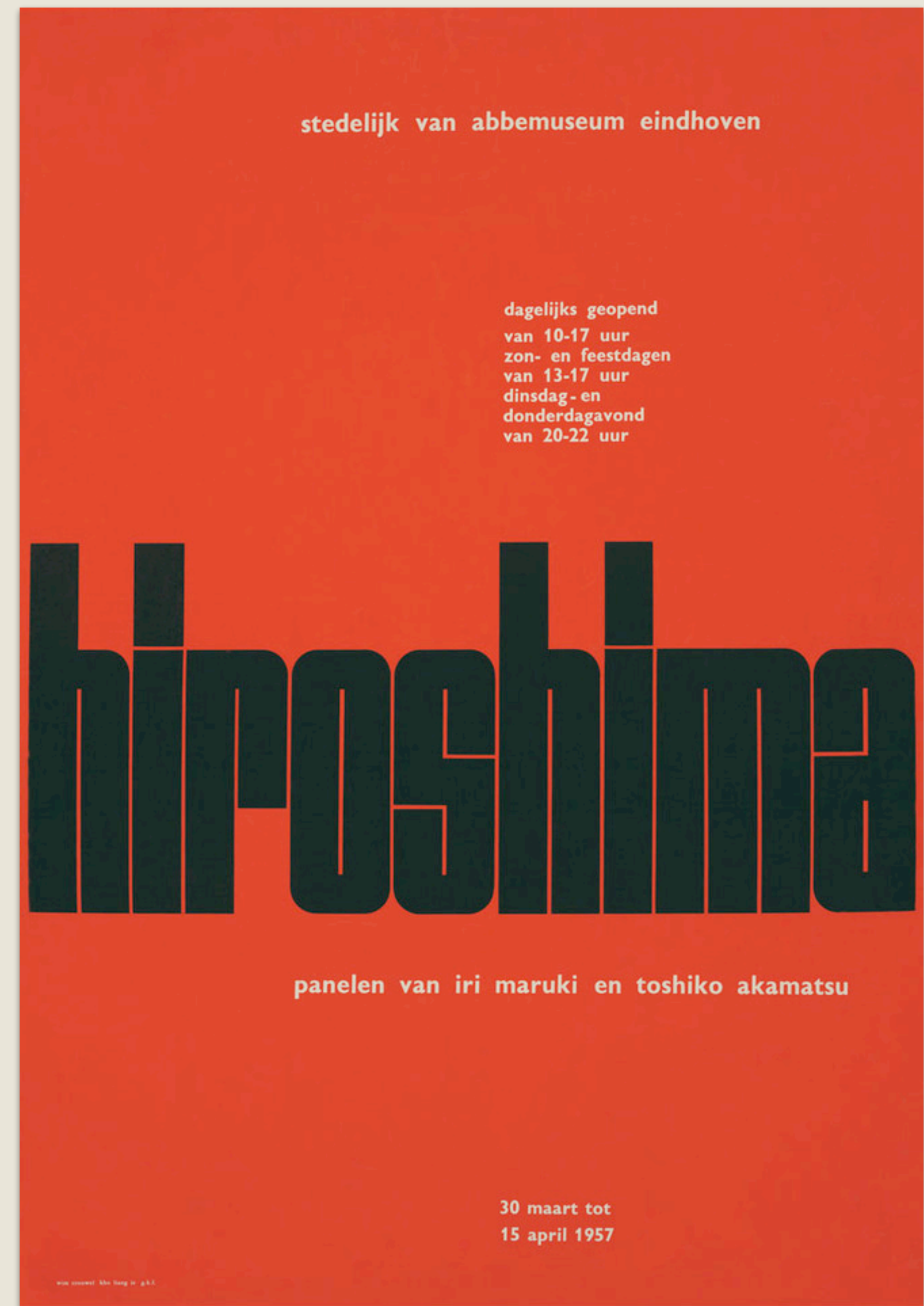
ruben

Tekst
Mischa Cohen
Fotografie
Gilleam Trapenberg
Kopletter
Wim Crouwel

nieuwe vormen

als je minder onzin leest

Corporate identities / 'house styles'

Design systems 1.0

@hdv
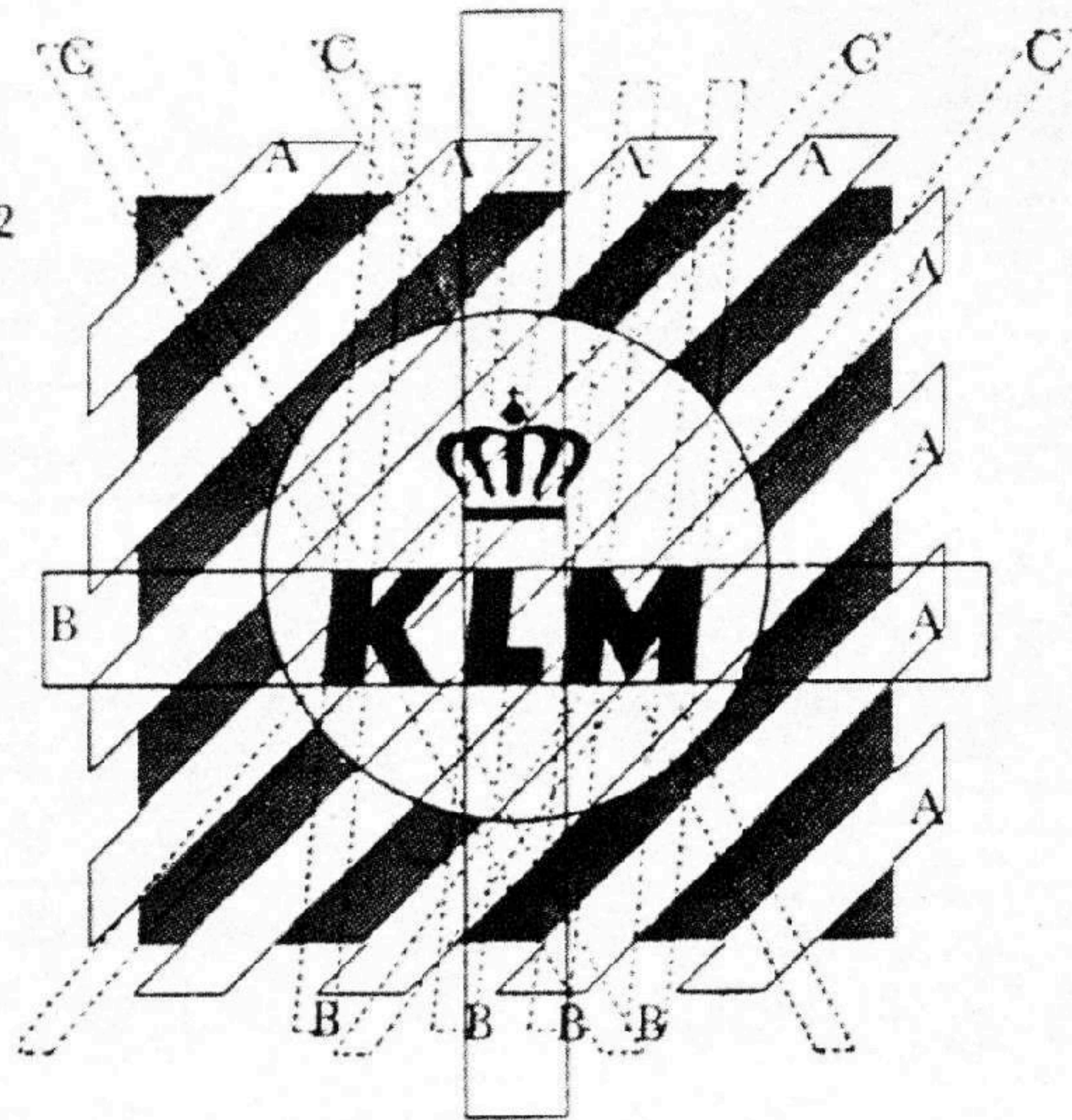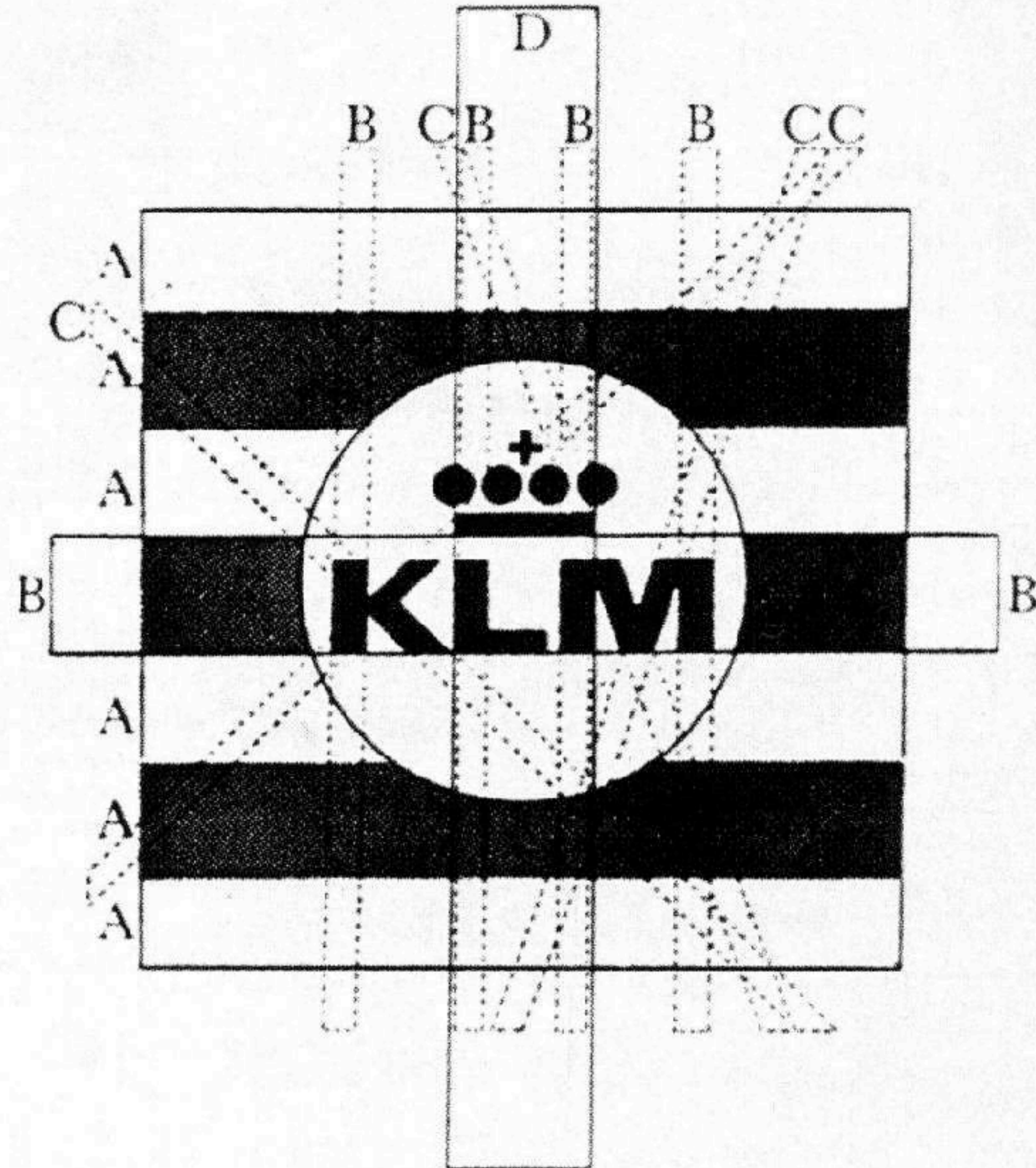
1964

1968

1971

1965

1976

1980
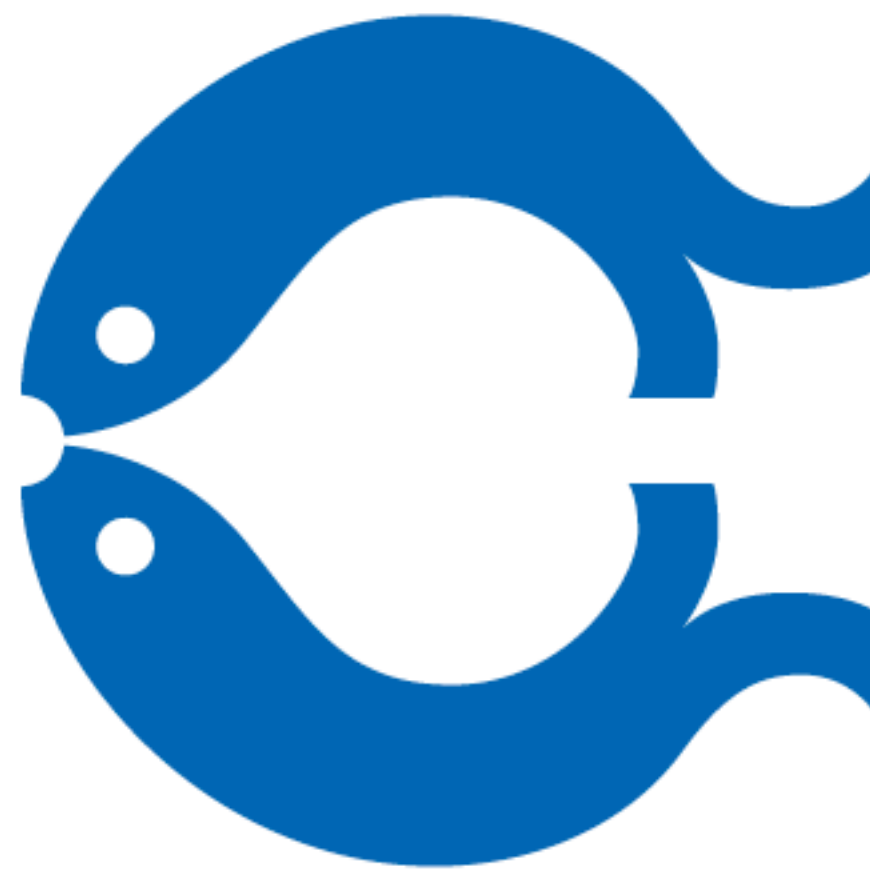
Standardisation of paper sizes, colours, etc...

Grids aided (automated) processing of forms

@hdv

grids

neutral typefaces

Modernist graphic design revolution

mathematical proportions

function over form

Not everybody was a fan

SCHREUDERS

Lay In
–
Lay
Out

{ En Ander
Oud Zeer }
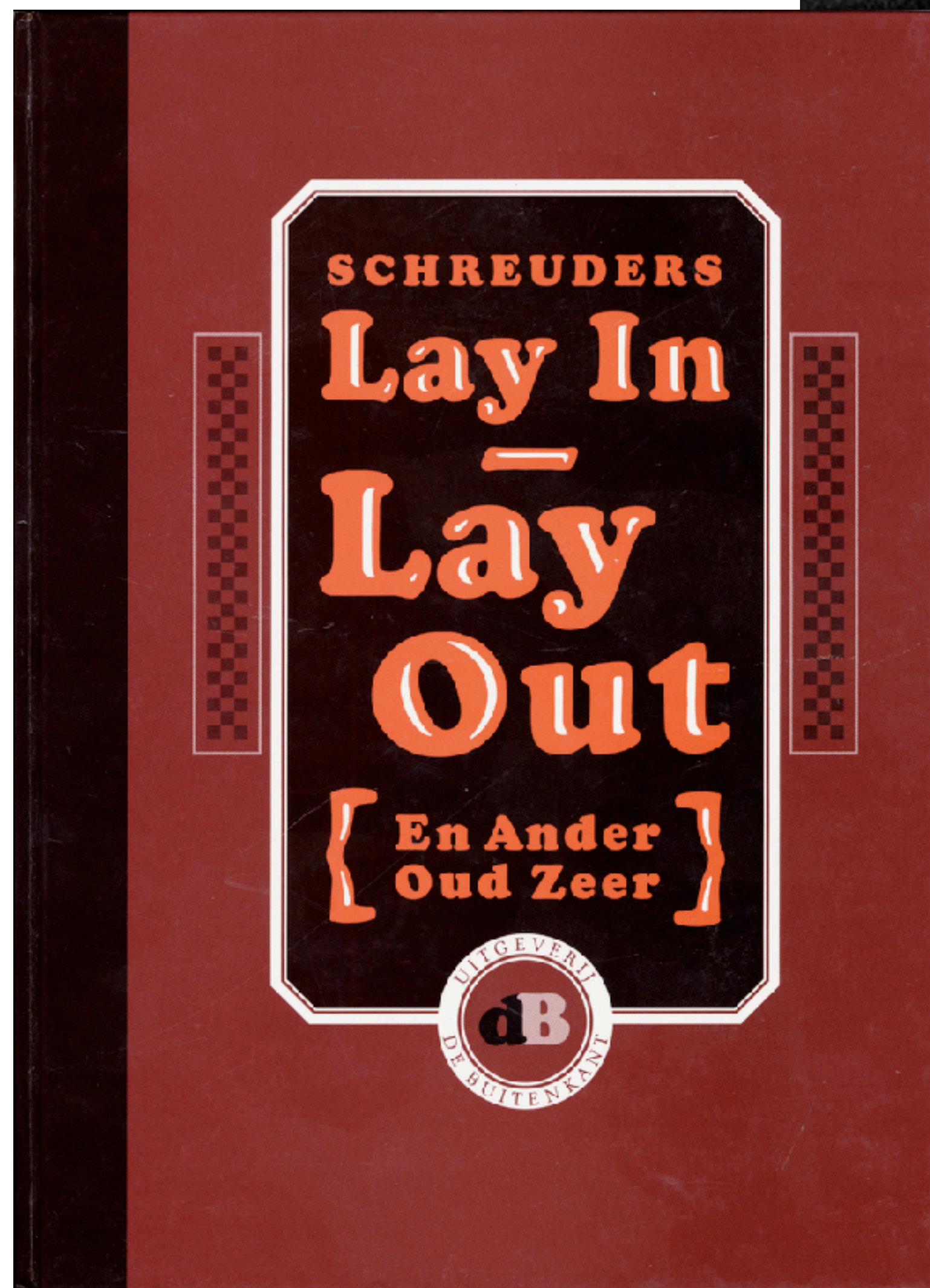
> **Apparently Crouwel delivers some of his designs by phone.**

— Piet Schreuders

In: Piet Schreuders, *Lay in, lay out.*

"

Swiss typography looks so neat, tidy and sanitised that all the life has gone out of it.

— Piet Zwart

In: Frederike Huygen, *Modernism: In Print*, 89.

Too much objectivity makes for boring layouts

(We've seen this on the web)

Let's use the good things of modernism

CSS = rules for what websites look like

As a front-end dev, it is my job to abstract design into repeatable rules

Doing great graphic design in CSS

A New Canon

The evolution of the grid from geometric form and canons of page construction is quite clear. In no other period of history was the grid used as a core aesthetic as was in the 1950s and 60s where it emerged – almost simultaneously – from several design schools in Europe. From then, the grid system's influence has been pervasive.

Today, the grid is viewed by many designers with equal amounts of distain and fervore. Its detractors – and there are many – claim a grid system is visual straight-jacket, designed to inhibit creativity and that using one produces dull work. Of course, I think that's rubbish; there are no bad grids, just bad designers. In the hands of a competent designer, a well-constructed, considered grid system is the frame on which the fabric of the design is hung. It should create balance, provide landmarks and visual cues. It should allow the designer to exercise just the right amount of creativity and provide immediate answers to layout problems.

Canvas In

For the past 800 years, the printed page has been constructed in pretty much the

https://markboulton.co.uk/journal/anewcanon   @hdv

Variable fonts

Floats that aren't rectangular

`box-sizing: border-box`

Blend Modes

Hyphenation control

HSL colors

`object-fit`

New layout modes: flexbox and grid

Equal heights

Style

Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

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Style

Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment. Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate stra-tegy foster collaborative thinking further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment. Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate stra-tegy foster collaborative thinking further the overall value proposition.

A longer heading

Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate stra-tegy foster collaborative thinking further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

Stretch as a default
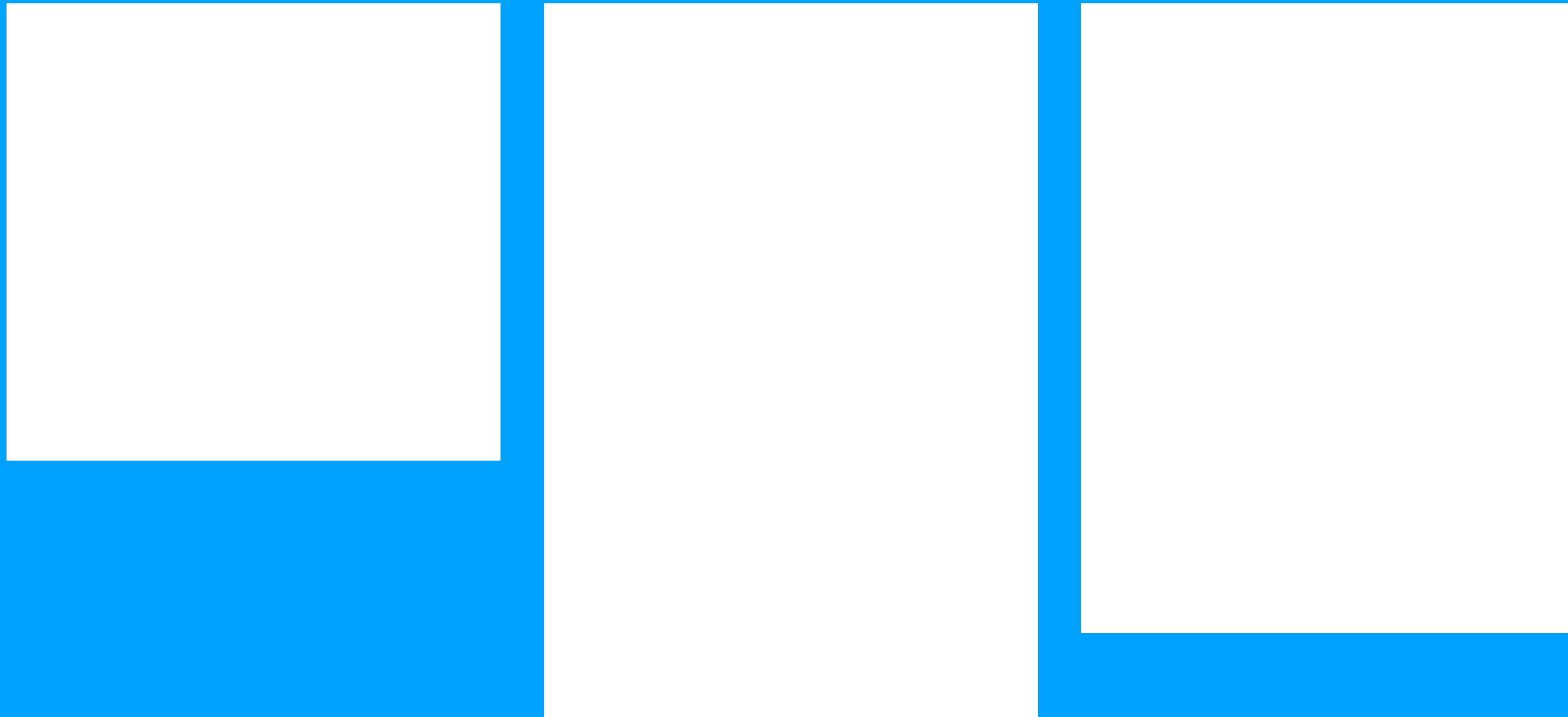
```
.container {
  display: flex;

  // not default
  align-items: flex-start;
}
```

@hdv

Stretch as a default
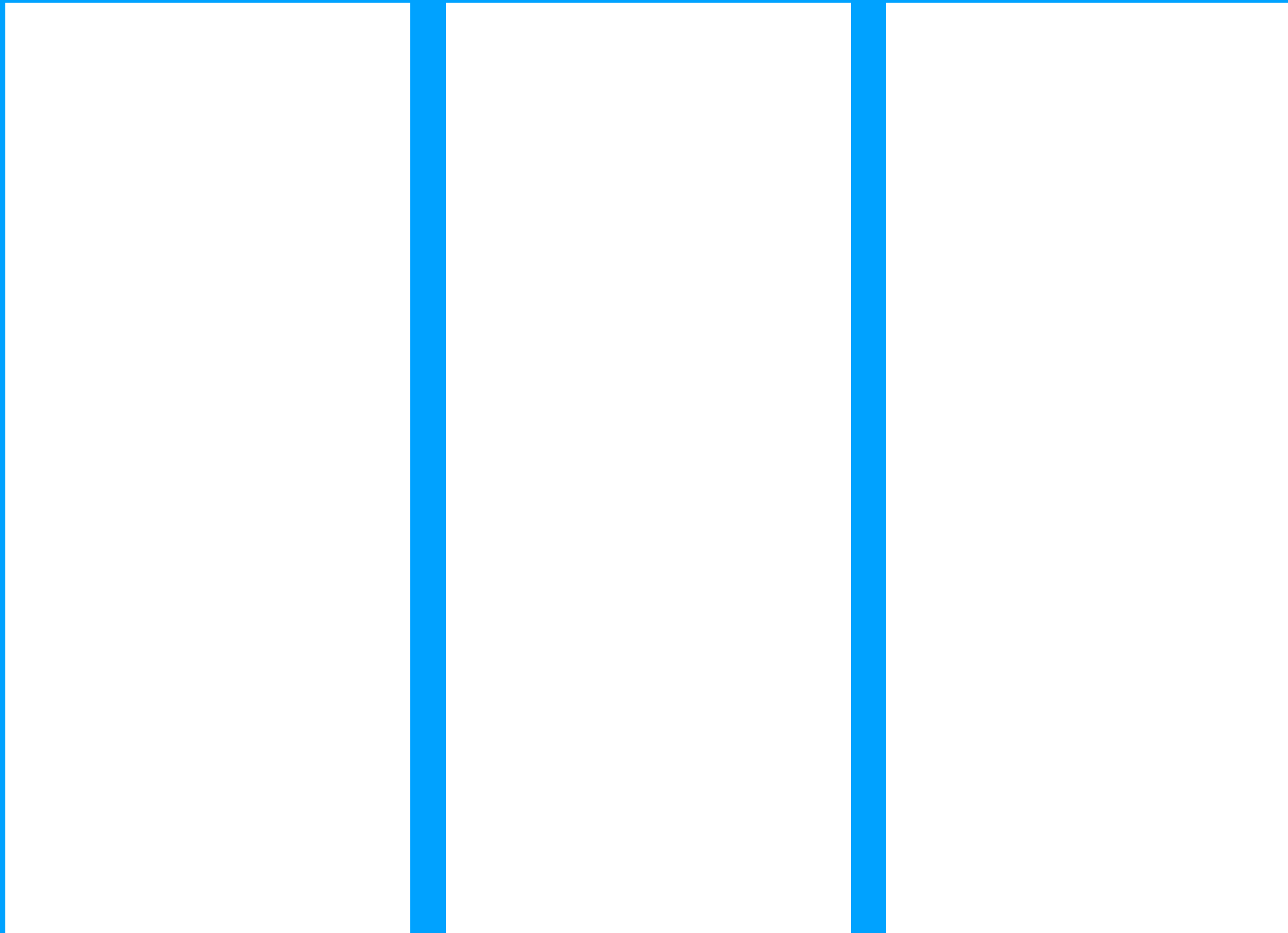
```css
.container {
  display: flex;

  // the default
  align-items: stretch;
}
```

Whitespace and intentional placement

> *Pencil and paper is cheap and quick. It lets me iterate in my head how I want my tracks to behave, while helping me visualise the final effect.*

— Hui Jing Chen, "How I design with CSS Grid"

https://www.chenhuijing.com/blog/how-i-design-with-css-grid

@hdv

ARTIST SPOTLIGHT

Tycho

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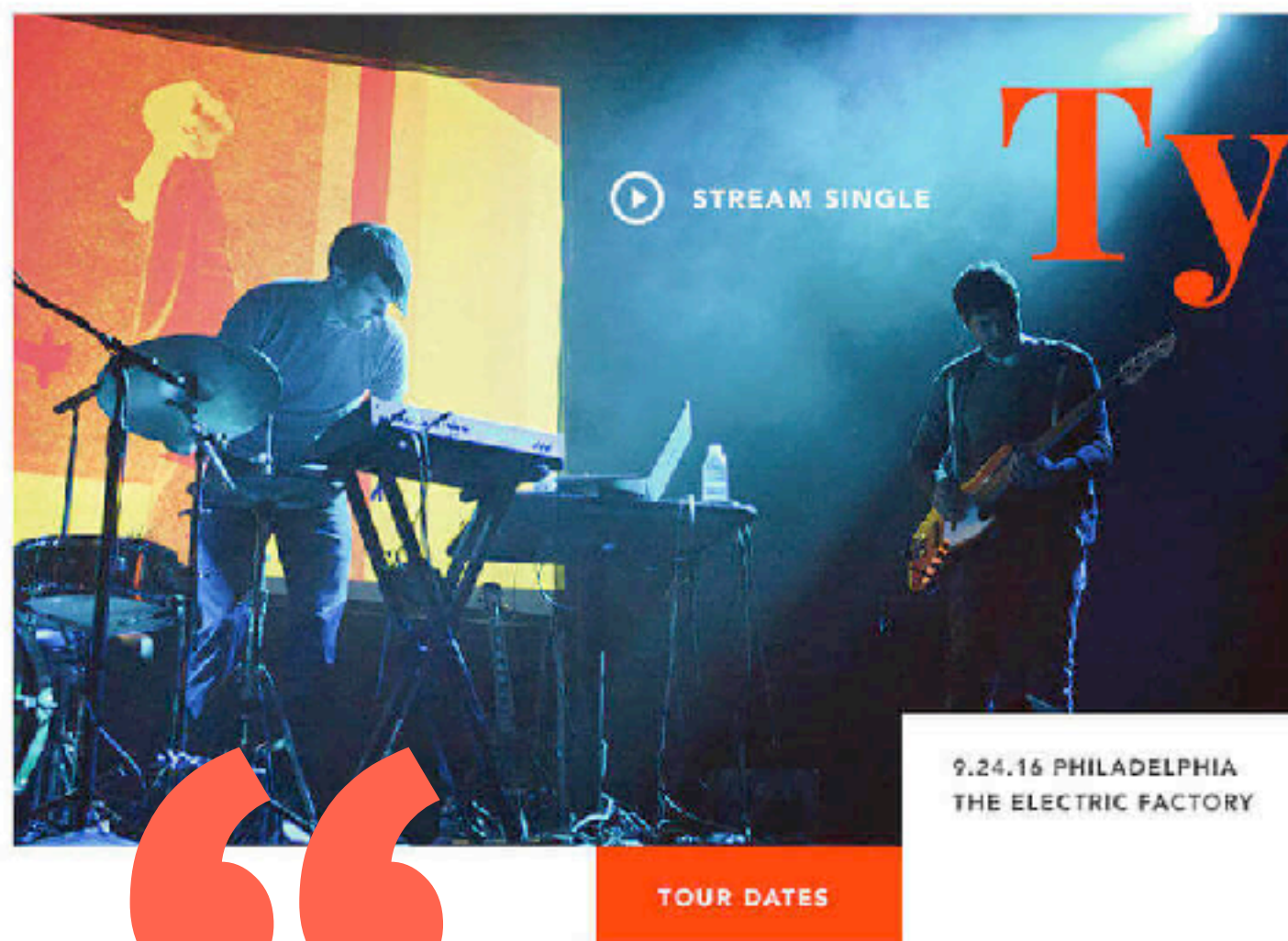
Earlier this year, San Francisco-bred artist and designer Tycho announced a new album on the way for 2016, but gave scant details about the project, leaving fans to speculate about just what the ambient master had in store. Fans need no longer worry, as Tycho's fifth studio album, Epoch, has arrived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

9.24.16 PHILADELPHIA
THE ELECTRIC FACTORY

READ MORE

TOUR DATES

flexible   min max   flexible   fit-content

Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

Bring to the table win-win survival strategies to ensure proactive domination. At the end of the day, going forward, a new normal that has evolved from generation X is on the runway heading towards a streamlined cloud solution. User generated content in real-time will have multiple touchpoints for offshoring.

Capitalize on low hanging fruit to identify a ballpark value added activity to beta test. Override the digital divide with additional clickthroughs from DevOps. Nanotechnology immersion along the information highway will close the loop on focusing solely on the bottom line.

Podcasting operational change management inside of workflows to establish a framework. Taking seamless key performance indicators offline to maximise the long tail. Keeping your eye on the ball while performing a deep dive on the start-up mentality to derive convergence on cross-platform integration.

Collaboratively administrate empowered markets via plug-and-play networks.

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Collaboratively administrate empowered markets via plug-and-play networks. Dynamically procrastinate B2C users after installed base benefits. Dramatically visualize customer directed convergence without revolutionary ROI.

```html
<div class="container">
    <p>(…)</p>
    <p>(…)</p>
    <p>(…)</p>
    <p>(…)</p>
</div>
```

```css
.container {
  display: grid;
  grid-template-columns:
    repeat( 4, 1fr );
}
```
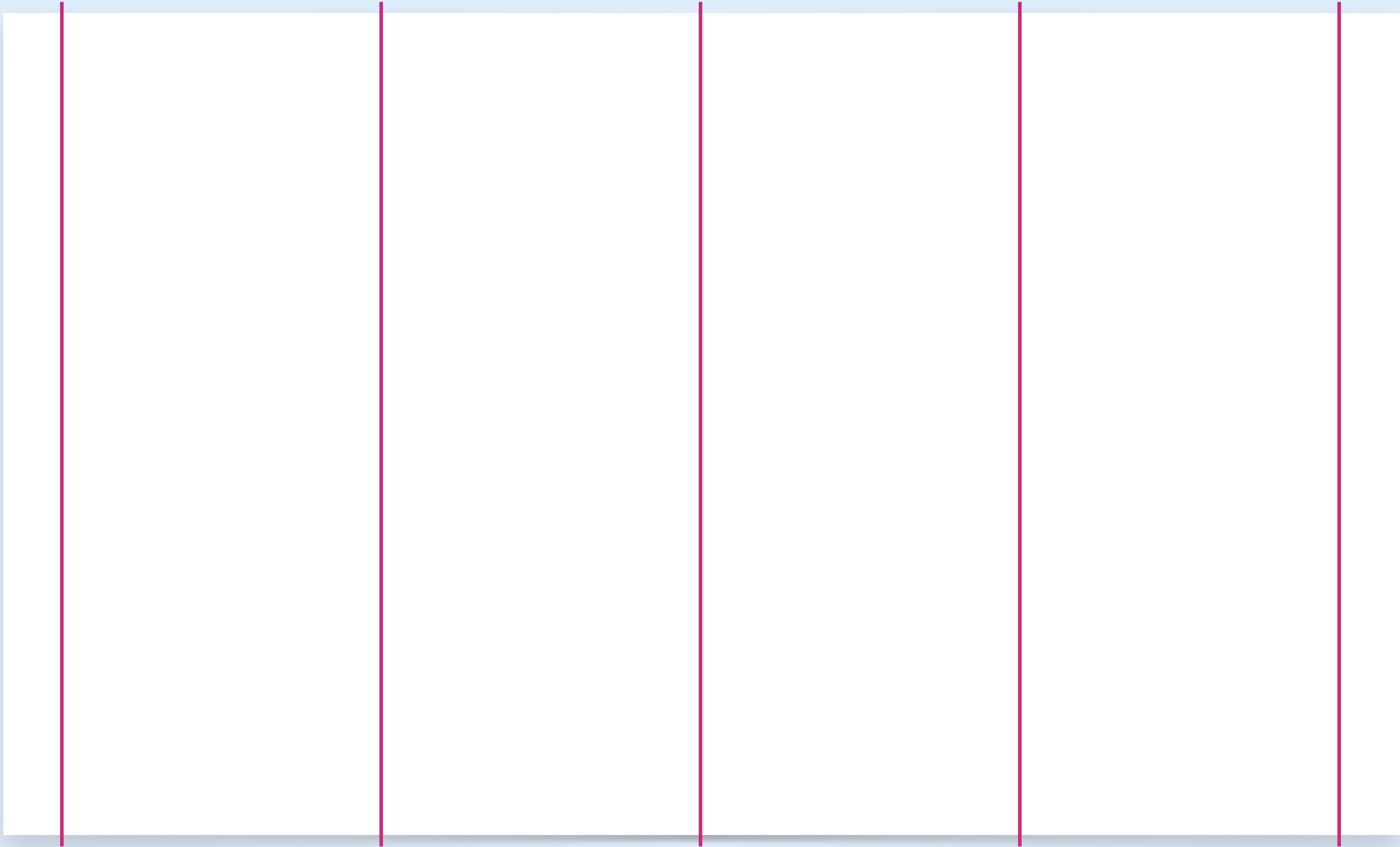
Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.
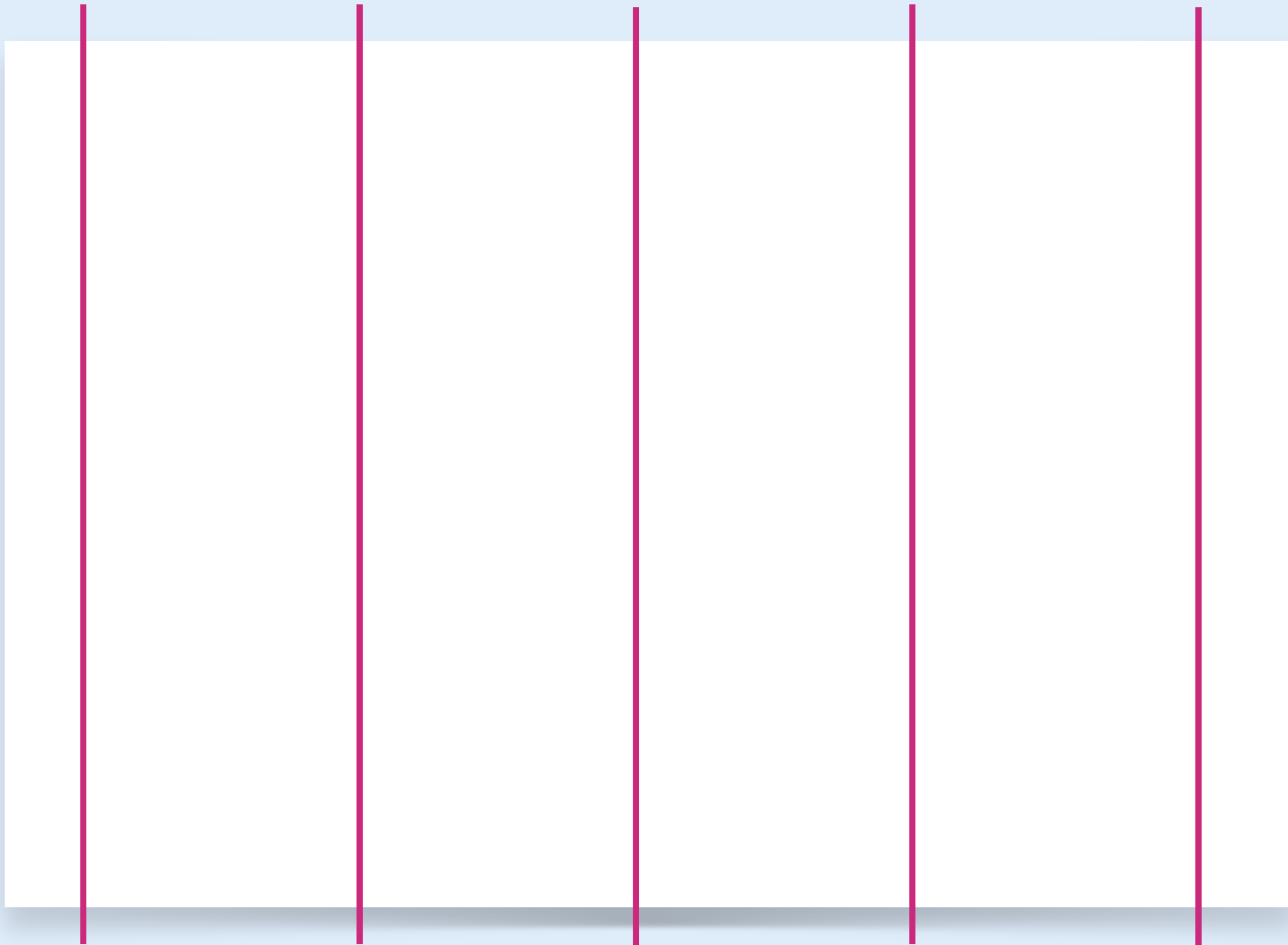
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@hdv

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Capitalize on low hanging fruit to identify a ballpark value added activity to beta test. Override the digital divide with additional clickthroughs from DevOps. Nanotechnology immersion along the information highway will close the loop on focusing solely on the bottom line.

Collaboratively administrate empowered markets via plug-and-play networks. Dynamically procrastinate B2C users after installed base benefits. Dramatically visualize customer directed convergence without revolutionary ROI.

```html
<div class="container">
  <p>(…)</p>
  <p>(…)</p>
  <p>(…)</p>
  <p>(…)</p>
</div>
```

@hdv

Leverage agile
frameworks to
provide a robust
synopsis for high
level overviews.
Iterative
approaches to
corporate strategy
foster collaborative
thinking to further
the overall value
proposition.
Organically grow
the holistic world
view of disruptive
innovation via
workplace diversity
and empowerment

Bring to the table

```html
<div class="container">
  <div class="content">
    <p>(…)</p>
    <p>(…)</p>
    <p>(…)</p>
    <p>(…)</p>
  </div>
</div>
```

1   2   3   4   5

Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

Bring to the table win-win survival strategies to ensure proactive domination. At the end of the day, going forward, a new normal that has evolved from generation X is on the runway heading towards a streamlined cloud solution. User generated content in real-time will have multiple touchpoints for

```
.content {
  grid-column: 2 / 4;
}
```

1   **2**   **3**   **4**   **5**

Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

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```
.content {
  grid-column: 3 / 5;
}
```

@hdv

1 2 3 4 5

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```css
.content {
  grid-column: 2 / 5;
}
```

@hdv

In Grid Layout, leaving an area empty is as easy as filling it with content

CSS Grid Layout lets us make intentional choices about placement and whitespace

> *a webpage [...] doesn't have one single composition*
>
> — Vasilis van Gemert, "Layout is like a sculpture"
>
> https://vasilis.nl/nerd/layout-on-screen-is-like-a-sculpture/

Mathematical proportions

Ratios in a whim: flexbox
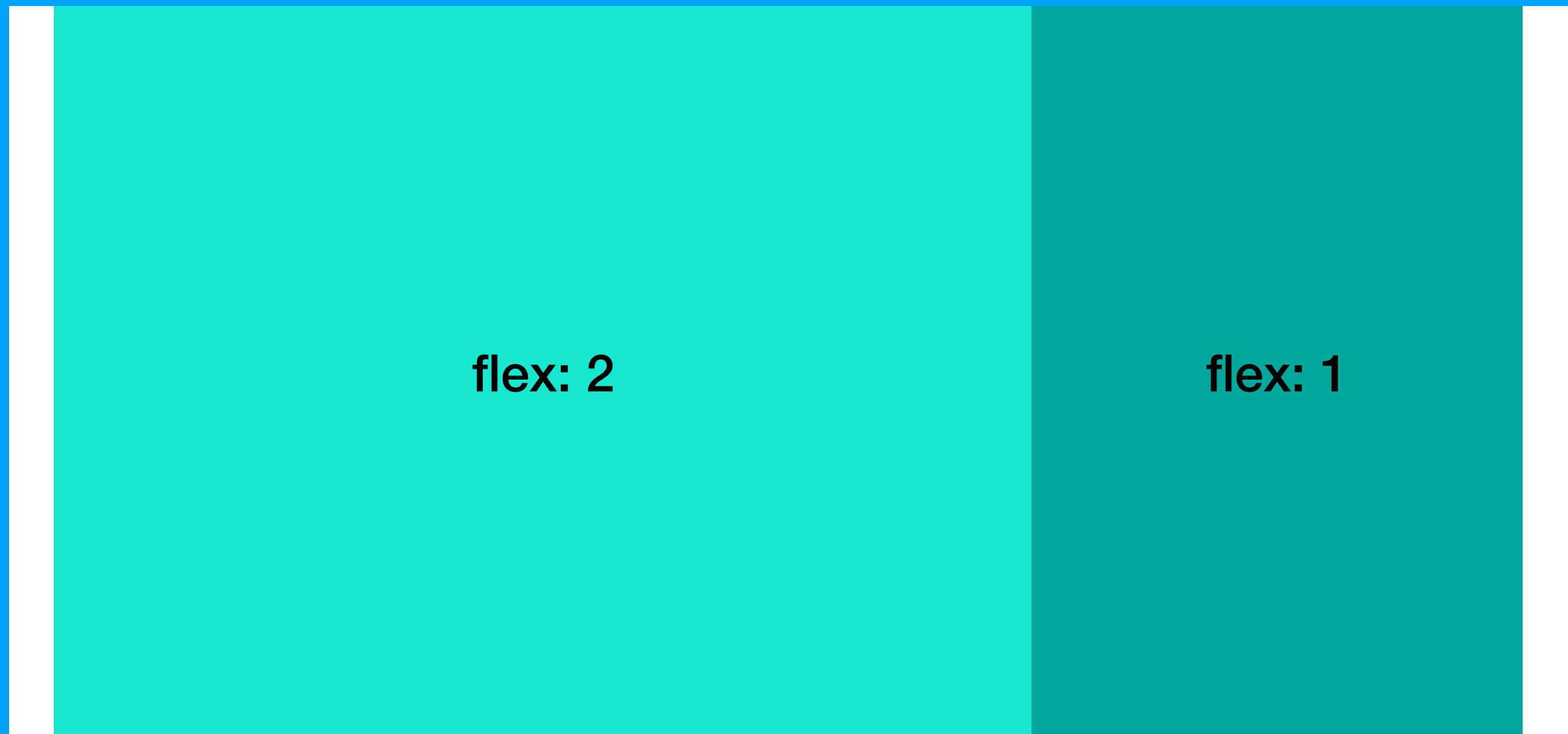
flex: 2

flex: 1

```css
.container {
  display: flex;
}

#item-1 {
  flex: 2;
}
#item-2 {
  flex: 1;
}
```

@hdv

Ratios in a whim: grid


```css
.container {
  display: grid;
  grid-template-columns:
    1fr 3fr 2fr 1fr;
}
```

1fr   3fr   2fr   1fr

@hdv

Ratios in whitespace distribution

§ 3. Aspect-ratio–controlled Gutters

> **ISSUE 3** There's a desire for having row and column gaps maintain a particular aspect ratio. This is one proposal for doing so; other ide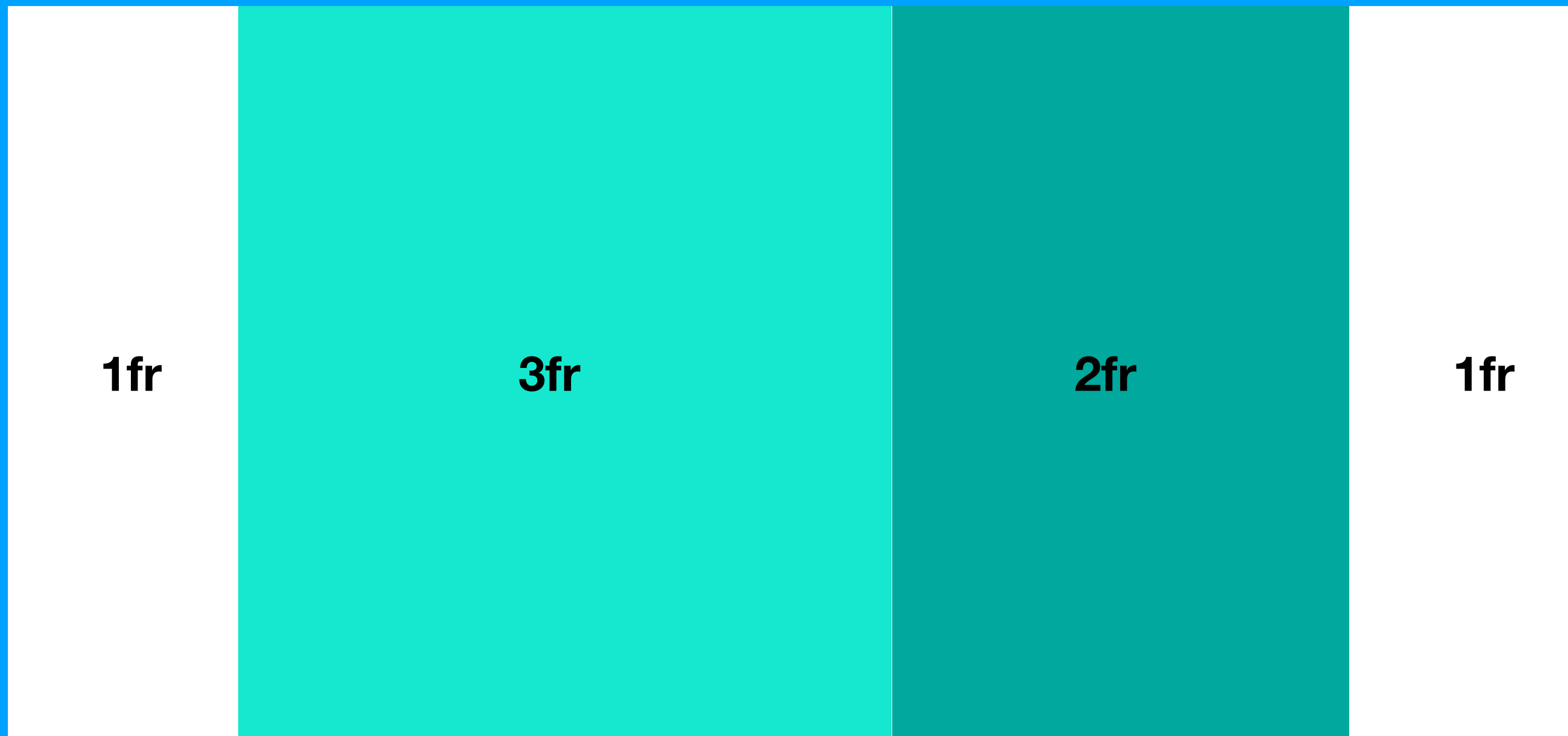as are welcome. See discussion in Issue 1116. Note this feature is likely to move to css-align-4, it is just being drafted up here while css-align-3 stabilizes.

Name:	'align-content', 'justify-content'
New values:	[<aspect-ratio> <content-distribution>?]

'<aspect-ratio>'

A dimension with the unit 'ar', representing a multiplier against the analogous quantity in the other dimension. If that quantity cannot be determined (e.g. is itself specified as a <aspect-ratio>, or otherwise can't be referenced), then it is assumed to be zero.

> Note: This value can expand gutters even when there is no free space left, causing overflow.

Specifically, an 'align-content' value of '1ar' represents the amount of space (which may be zero) allocated between two adjacent alignment subjects (grid tracks / flex lines / column boxes) by the 'justify-content' property. Unless a different <content-distribution> value is specified, space is distributed according to the same <content-distribution> rules as for 'justify-content'. The behavior of <number> values for 'justify-content' is analogous.

> Note: The space allocated by 'align-content: 1ar' will be zero if 'justify-content' does not allocate space

@hdv

Proportionate to standardised paper sizes
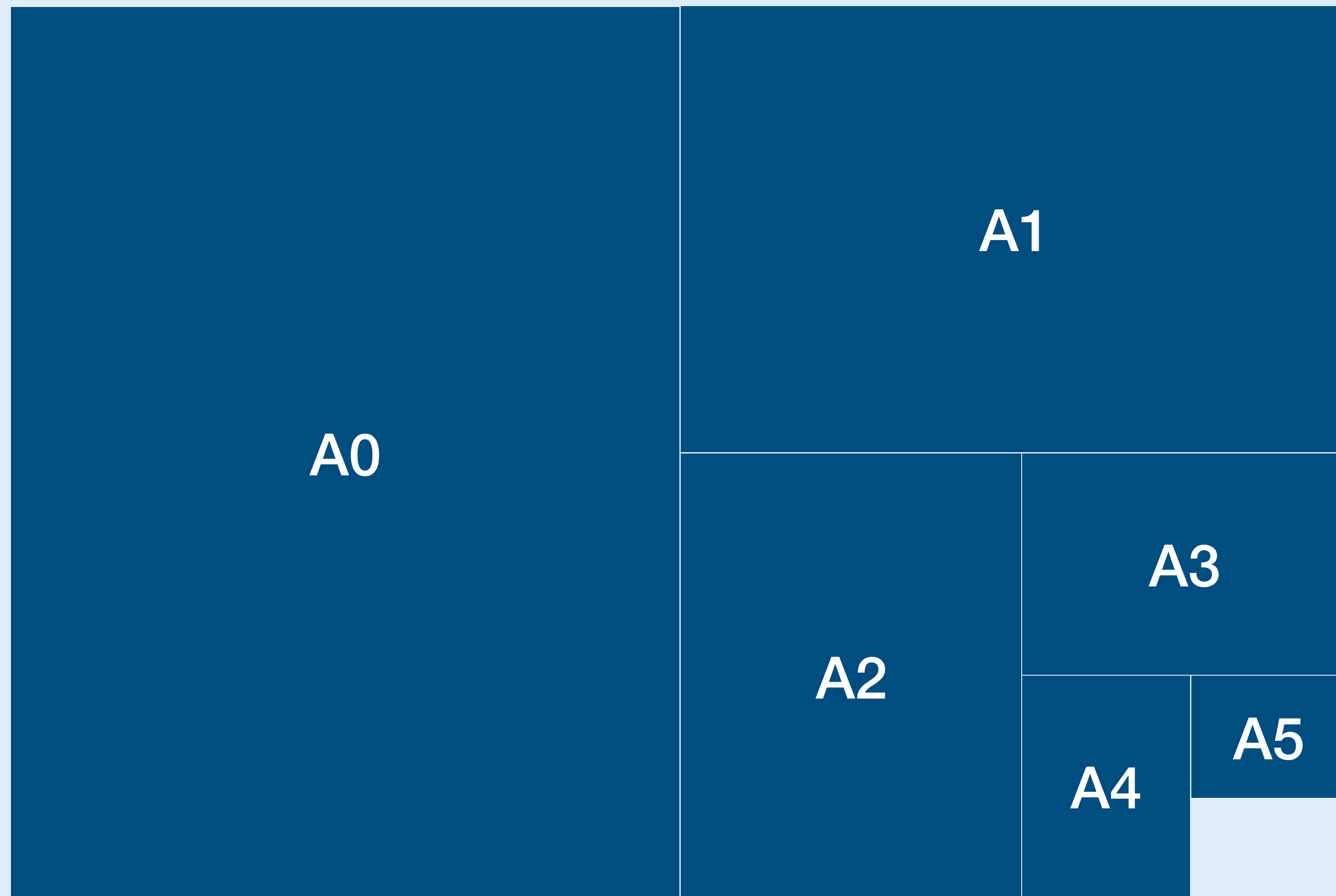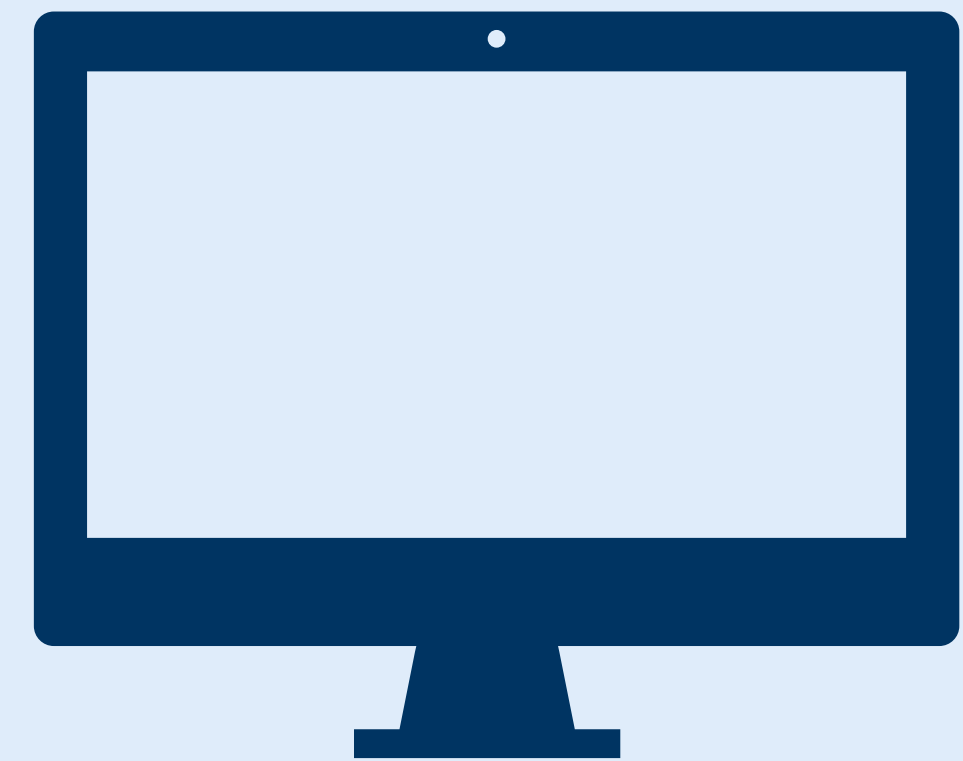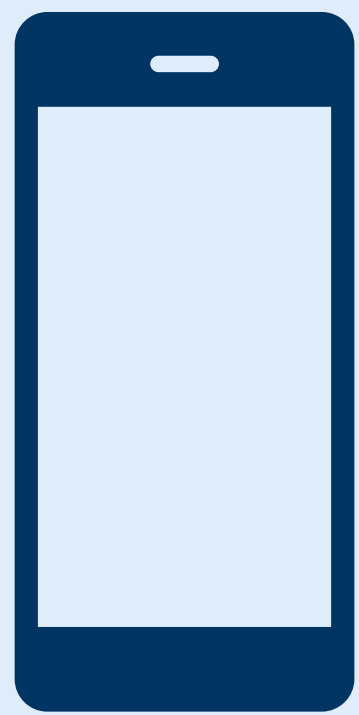
Proportionate to standardised viewport

Proportionate to

s[any]d[viewport]

Viewport units:
vw, vh

A grid with viewport units
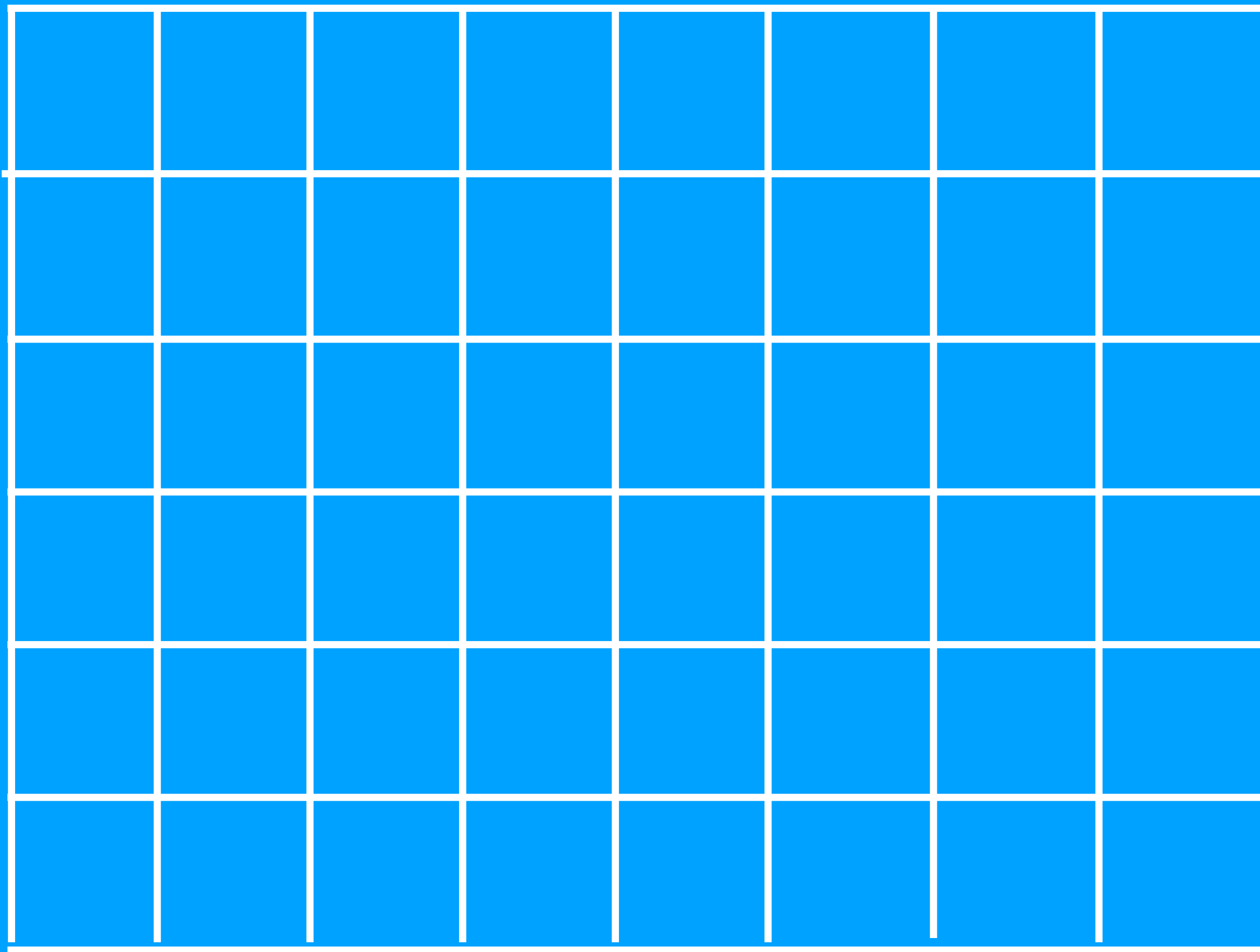
```css
.container {
  display: grid;
  grid-template-columns:
    repeat( 8, 12.5vw );
  grid-template-rows:
    repeat( 8, 12.5vh );
}
```

@hdv

A grid with viewport units
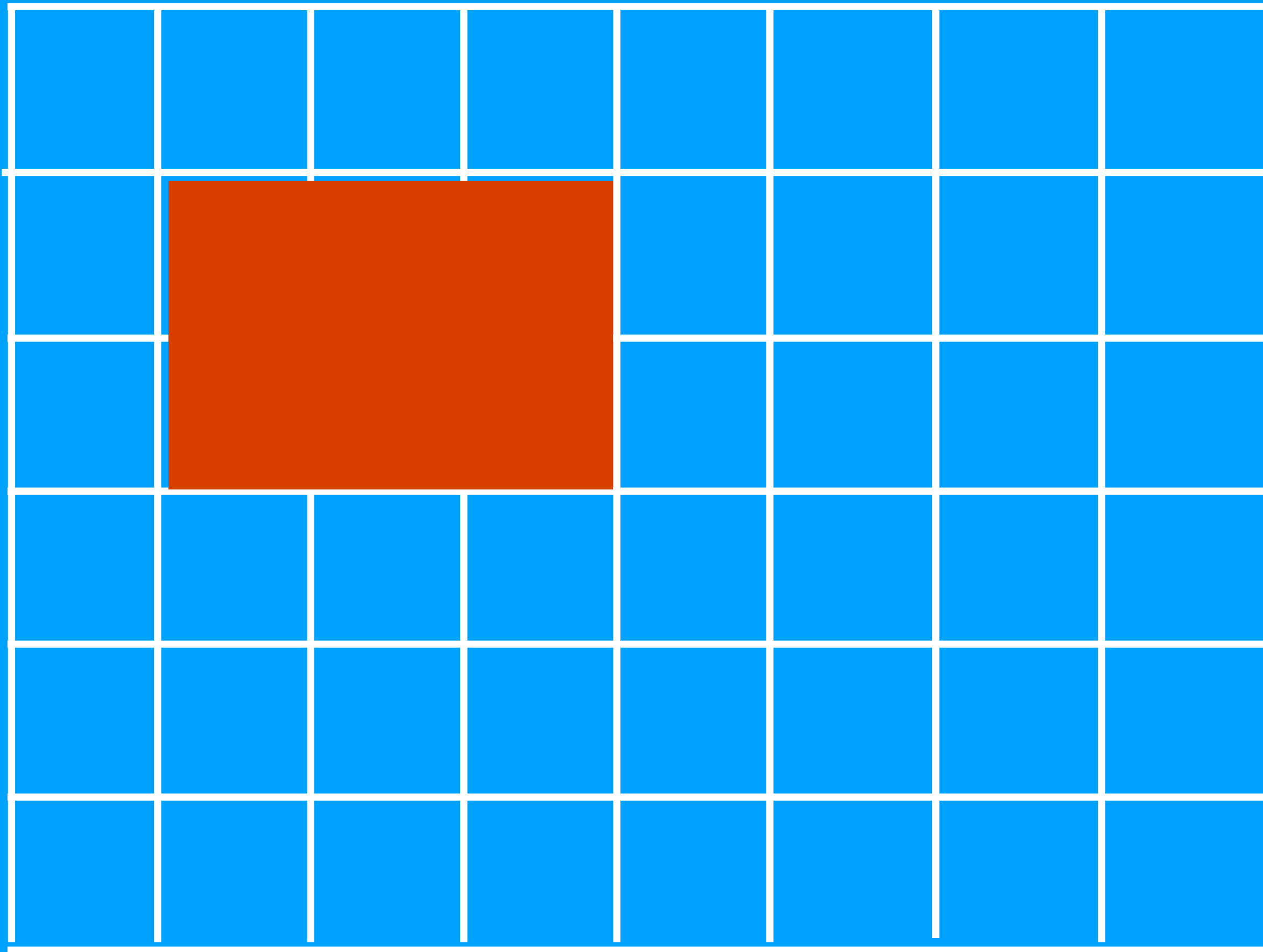
```css
.tomato {
  grid-column: 2 / 4;
  grid-row: 2 / 4;
  background: tomato;
}
```

A grid with viewport units
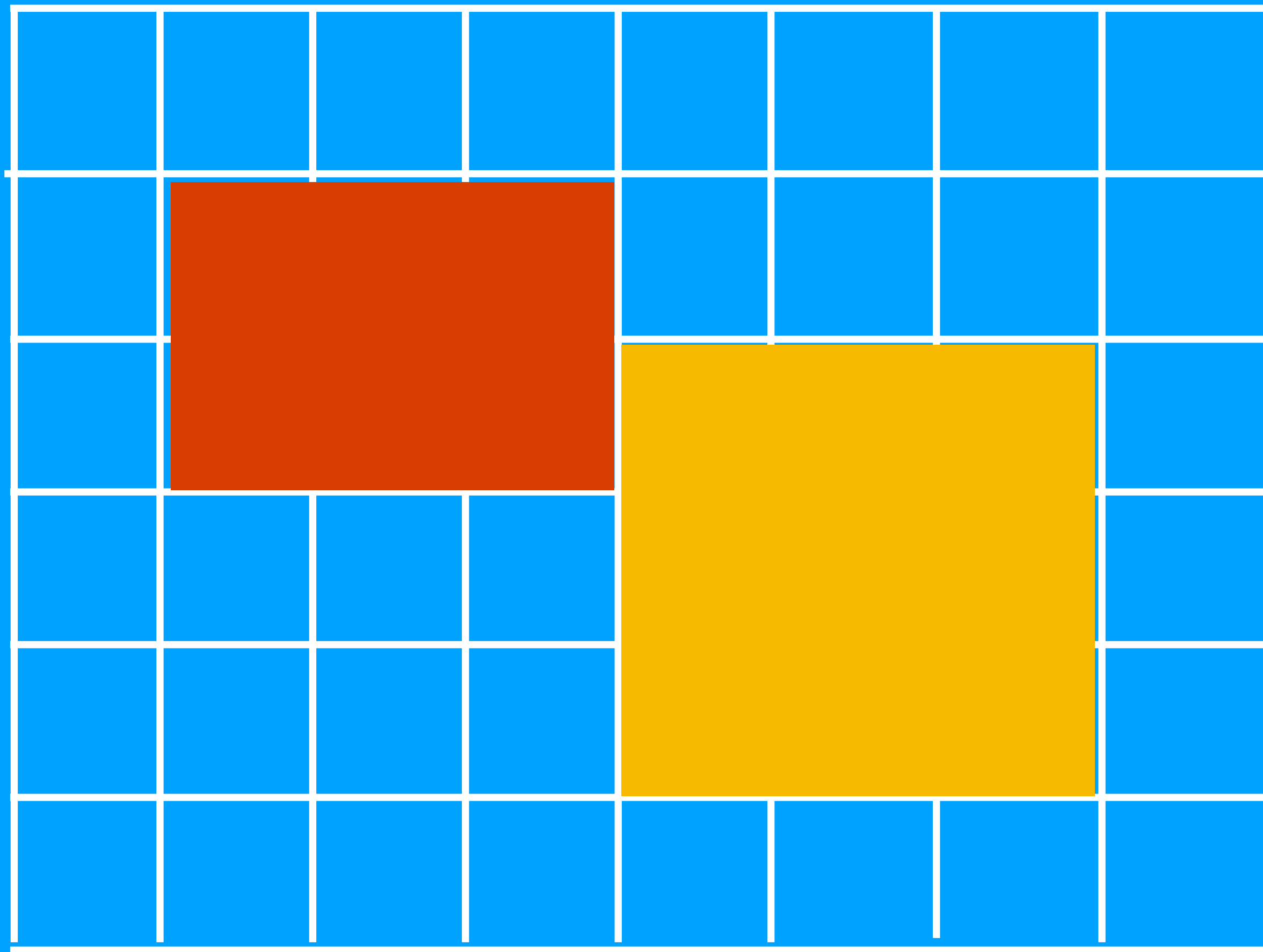
```css
.gold {
  grid-column: 4 / 8;
  grid-row: 3 / 8;
  background: gold;
}
```

A grid with viewport units
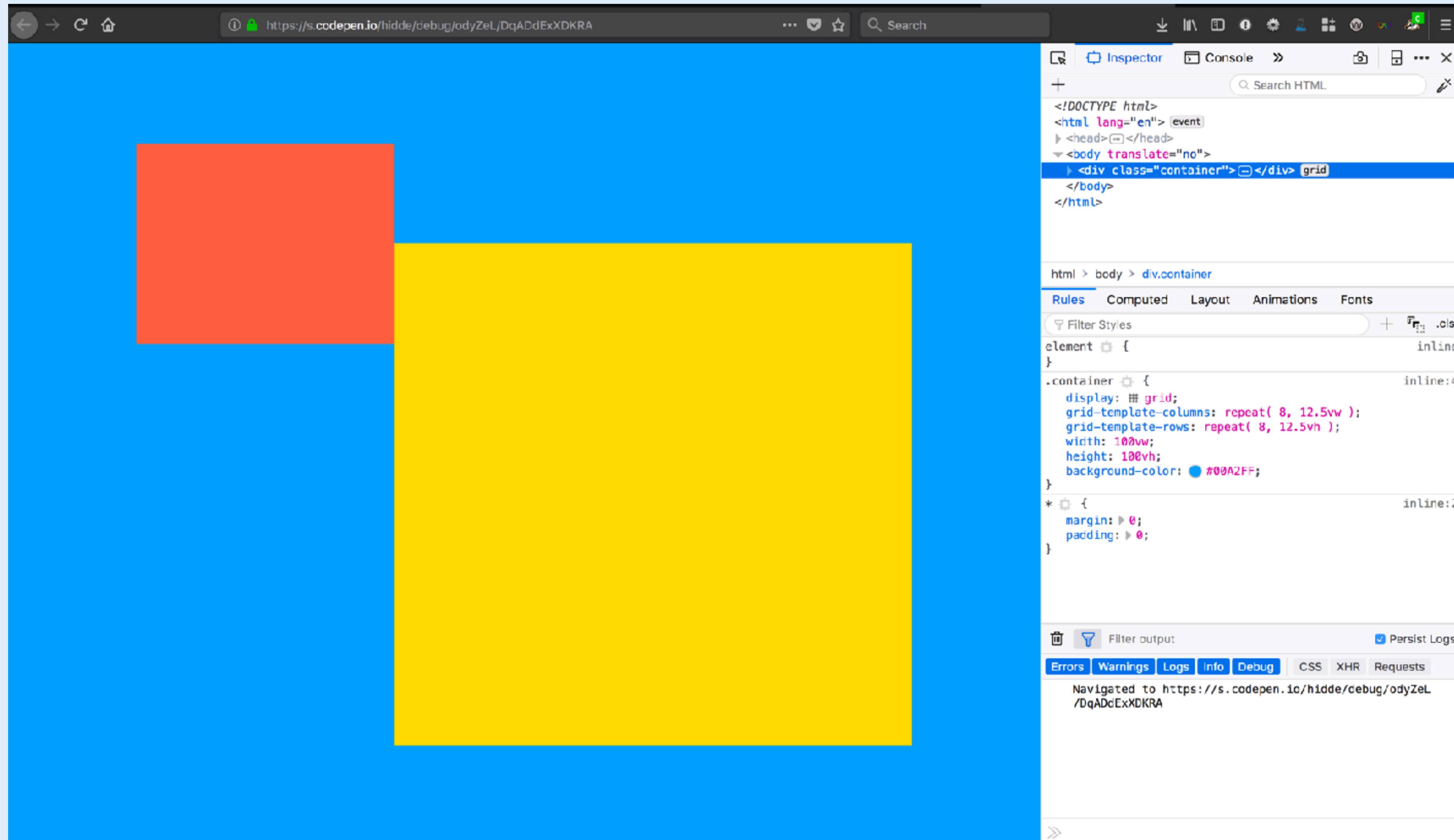
A grid with viewport units
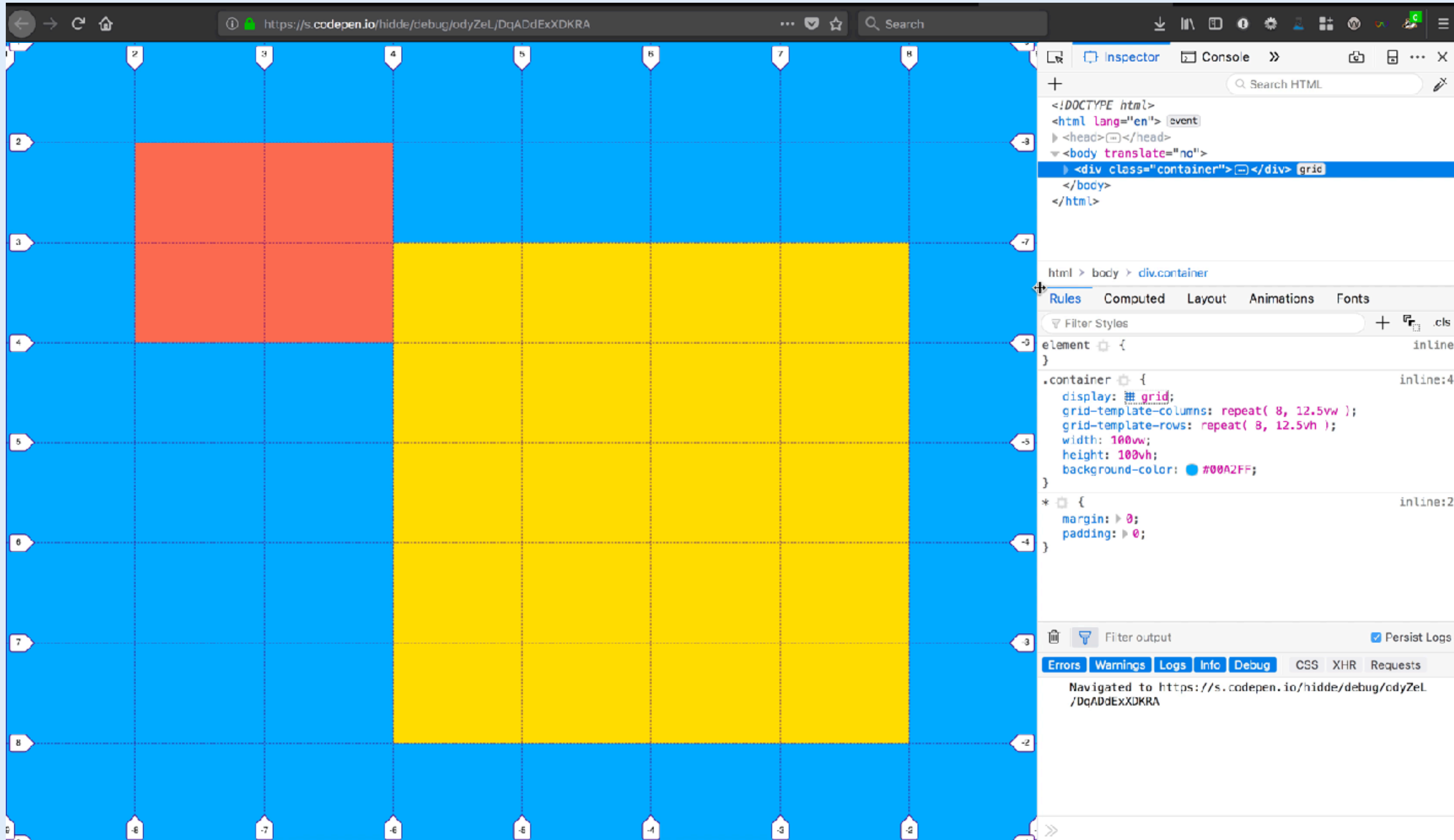
Overlapping content

Photos in grids
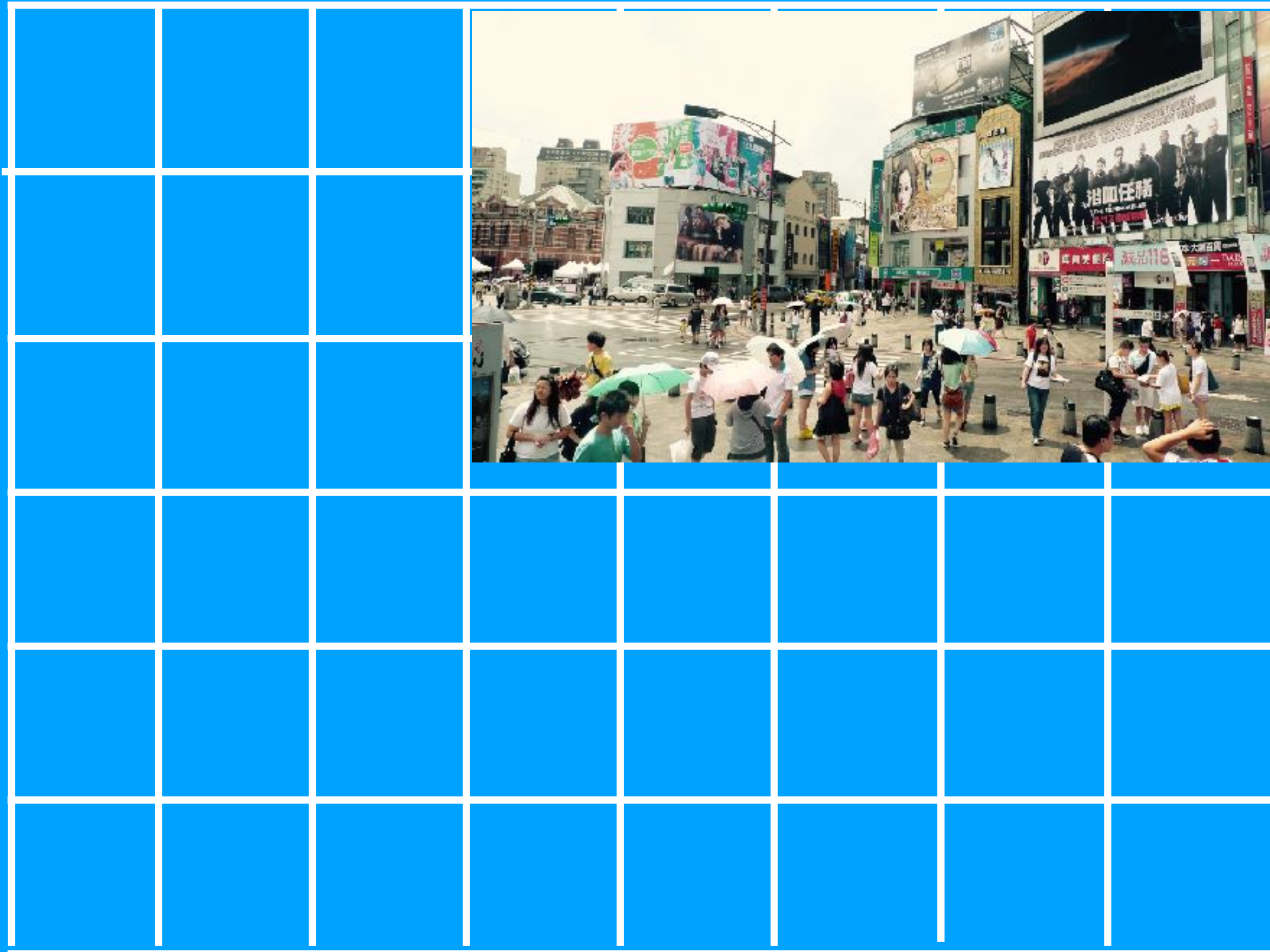

```css
.photo {
  grid-column: 3 / 8;
  grid-column: 1 / 4;
}
```

Photos in grids

Ximending, it's busy!

Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

Bring to the table win-win survival strategies to ensure proactive domination. At the end of the day, going forward, a new normal that has evolved from generation X is on the runway heading towards a streamlined cloud solution. User generated content in real-time will have multiple touchpoints for offshoring.

Capitalize on low hanging fruit to identify a ballpark value added activity to beta test. Override the digital divide with additional clickthroughs from DevOps. Nanotechnology immersion along the information highway will close the loop on focusing solely on the bottom line.

```css
.photo {
  grid-column: 3 / 8;
  grid-column: 1 / 4;
}


.content {
  grid-column: 1 / 4;
  grid-row: 3 / 8;
}
```

Overlap and z-index

Ximending
it's busy!

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```
.photo {
  (…)
  z-index: 1;
}
```

Overlap and z-index

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```css
.content {
  (...)
  z-index: 1;
}
```

Multi-column
CSS Masking
Floats with shapes
Writing modes

and many more

Are we READY?

Will everything look the same in every browser?

terrible layout

beautiful grid layout

terrible layout — beautiful grid layout

In Safari, Chrome, Edge, Firefox, Opera, Samsung Internet

@hdv

terrible layout

simpler, but pretty ok fallback

In browsers that don't support Grid Layout.

beautiful grid layout

In Safari, Chrome, Edge, Firefox, Opera, Samsung Internet
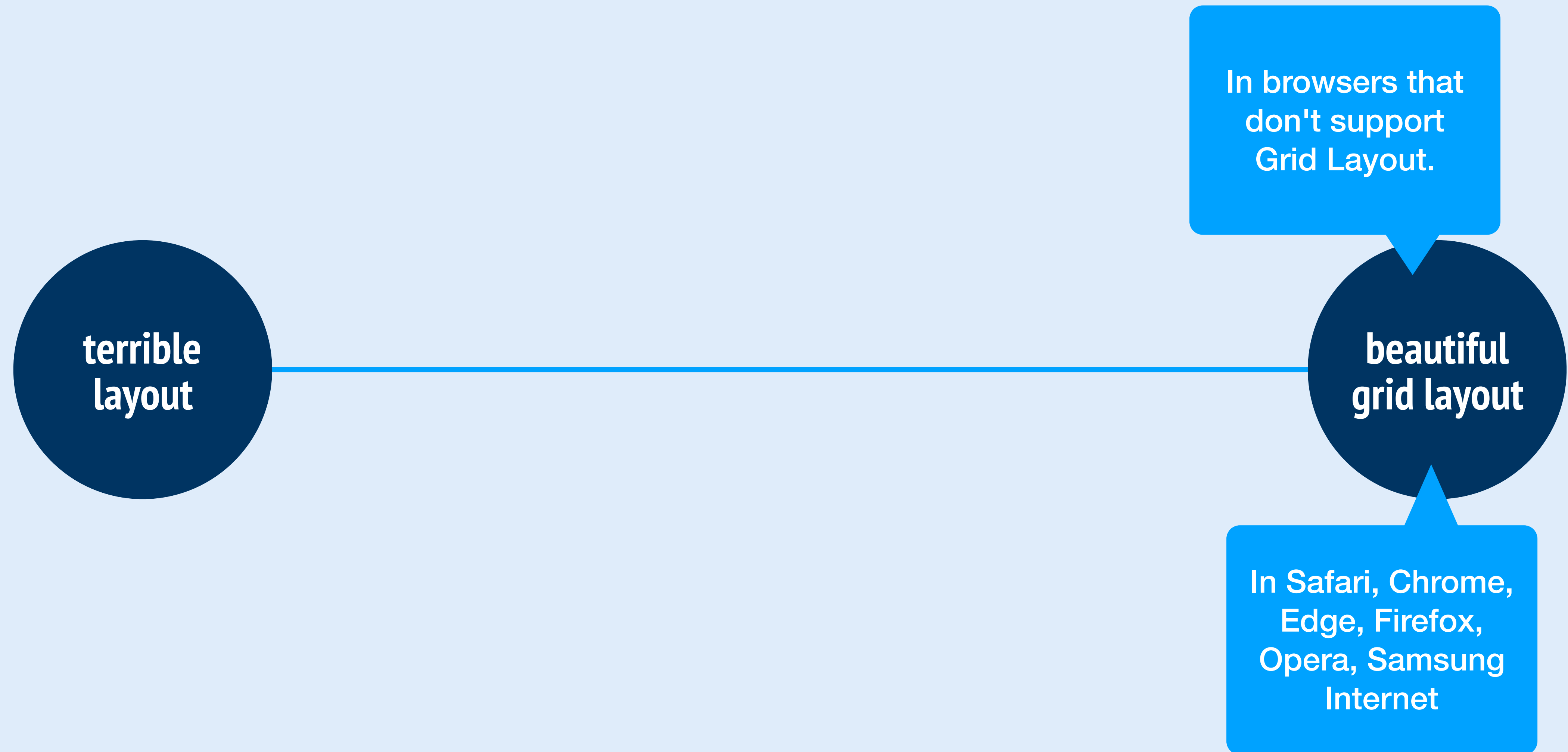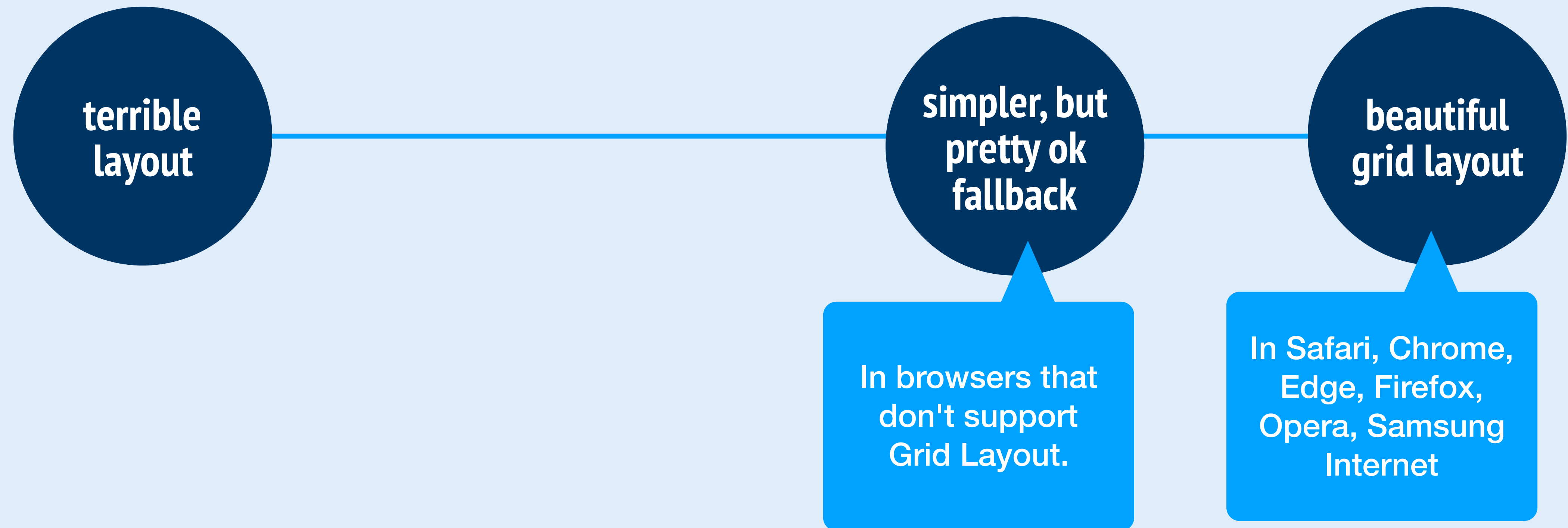
In technical terms, that means...

@supports, the cascade and overriding floats

@supports

```css
@supports ( display: grid ) {
  // Specify rules that you only want to be followed
  // when Grid Layout is supported in the user's browser.
}
```

A most likely @supports

```css
@supports ( display: grid ) {
  .thing {
    margin: 0;
    width: auto;
  }
}
```

Undoing floats

```css
.thing {
  float: left;
}


@supports ( display: grid ) {
  // No need to undo floats; the spec has got
  // you covered. Grid-supporting browsers will
  // ignore floats on grid items for you.
}
```

@hdv

In technical terms, that means...

Best keep fallbacks very plain and simple.

In working relationships, that means...

Experiment together!

Stephen Hay
@stephenhay · Follows you

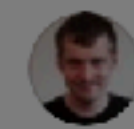Head of UX @catawiki. Author of Responsive Design Workflow (@RDWorkflow). Design + code. Speaker, writer. Generalist. Tweets my own.

📍 The Netherlands
🔗 the-haystack.com
📅 Joined December 2006

Tweet to   **Message**

👤 142 Followers you know

📷 215 Photos and videos

Stephen Hay
@stephenhay

Following ∨

I keep meeting designers who would love to start prototyping in code, but are afraid they'll "do it wrong". If you want to try, start small and *code poorly*. Your code isn't production code. Just play. Having fun will draw you in.

8:22 PM - 28 May 2018

102 Retweets **375** Likes

💬 13   ↻ 102   ❤ 375   ✉

[avatar] Tweet your reply

Jan van Hellemond @jvhellemond · May 28
Replying to @stephenhay
There is a risk, I've seen it happen, that the code does end up in production. Because some manager somewhere says "hey, looks good, why spend more time on this, ship it".

💬 7   ↻   ❤ 2   ✉

Stephen Hay @stephenhay · May 28

Following

Who to follow · Refresh · View all

Josh Clark @bigmediumj...   ✕
Follow

Luke Wroblewski @lukew   ✕
Follow

Responsive Design @RWD   ✕
Follow

👥 Find people you know

Trends for you · Change

#codeoranje
@nvreez is Tweeting about this

#websci18
1,155 Tweets

#fintech
@dccrowley is Tweeting about this

In working relationships, that means...

Show others reality and simple ways to deal with it

more
complex
code

more
talking to
colleagues

better in
long term

" Web design is engineering: it's not about finding perfection, it's finding the best compromise.

— Oliver Reichenstein

In: *Responsive typography: the basics* (2012).

The web is ready for great graphic design

Things that used to be hard to achieve are now built-in to browsers

> *Can web design inspire graphic design? How can we lead the way?*
>
> — Vasilis van Gemert

How to make the most out of THIS NEW ERA?

flexible

interactive

standards-based

accessible

The web is
flexible by default

Fixed canvases

Known content

Good colour options

canvases

content

colour options

Flexible

Ever-changing

Different

everywhere

> *It is the nature of the web to be flexible, and it should be our role as designers and developers to embrace this flexibility (...)*

— John Allsopp

In: *A dao of web design.*

@hdv

By embracing flexibility, we can make our work more effective.

(And focus on letting users do what they've come to the site for)

minmax()

fr

min-content / max-content

ch

A fifty characters column

1fr

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Podcasting operational change management inside of workflows to establish a framework. Taking seamless key performance indicators offline to maximise the long tail. Keeping your eye on the ball while performing a deep dive on the start-up mentality to

1fr

50ch

```css
.content {
display: grid;
grid-template-columns:
  1fr 50ch 1fr;
}
```

A column with 45-70 characters

1fr

Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

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Podcasting operational change management inside of workflows to establish a framework. Taking seamless key performance indicators offline to maximise the long tail. Keeping your eye on the ball while performing a deep dive on the start-up mentality to

1fr

minmax(45ch, 70ch)

```css
.content {
  display: grid;
  grid-template-columns:
    1fr minmax(45ch, 70ch) 1fr;
}
```

The web is accessible by default

It's mostly text.

selectable

copyable

It's mostly text.

screenreader-
ready

enlargeable

Google Translate-able

Text lets us have accessibility automatically

Responsive Design Mode | No throttling | DPR: 3 | Reload when... | ✋ 📷 ✕

360 × 640

Google Nexus 5

VENICE 威尼斯影城

img.mobile-nav.img-responsive | 65 × 65

FB粉絲團　線上訂票　人才招募　訂閱電子報

☰ 瀏覽主選單

全球七大恐怖禁地之一

鬼病院
GONJIAM

電影造型商品 | Snack bar

Inspector　Console　Debugger　Style Editor　Performance　Network　DOM

Search HTML

```
▶ <li>...</li>
    ◉
▼ <li>
  ▼ <a class="nav2" href="https://venice.tixi.com.tw" target="_blank">
      <img class="mobile-nav img-responsive" src="images/common/topNav
    </a>
  </li>
    ◉
▶ <li>...</li>
    ◉
▶ <li>...</li>
  </ul>
```

:ontainer > div.row > div.col-xs-12.col-md-5.col-sm-5 > ul.topnav > li > a.nav2 > img.mobile-n

Rules　Computed　Layout　Animations

🔍 Filter Styles

▼ Pseudo-elements

```
::-moz-selection ⚙ {
    background: ▶ ⬤ #B086CE;
    color: ◯ #FFF;
    text-shadow: none;
}

::before, ::after ⚙ {
    -webkit-box-sizing: ▶ border-box;
    -moz-box-sizing: ▶ border-box;
    box-sizing: border-box;
}
```

This Element

```
element ⚙ {
}
```

Composition of the poster

Exhibition poster "the Film". Offset
128 x 90,5 cm, Zurich, 1959

```
<body>
  <div class="poster">
    <h1><span>der</span> <span>Film</span></h1>
    <p class="what">Kunstgewerbemuseum Zürich<br>Ausstellung</p>
    <div class="when">
      <p>10.Januar bis 30.April 1960</p>
      <p>Offen: Montag 14-18, 20-22<br>
        Dienstag-Freitag 10-12, 14-18, 20-22<br>
        Samstag-Sonntag 10-12, 14-17
      </p>
    </div>
  </div>
</body>
```

@hdv

der Film

Kunstgewerbemuseum Zürich
Ausstellung

10.Januar bis 30.April 1960

Offen: Montag 14-18, 20-22
Dienstag-Freitag 10-12, 14-18, 20-22
Samstag-Sonntag 10-12, 14-17

```html
<body>
  <div class="poster">
    <h1><span>der</span> <span>Film</span></h1>
    <p class="what">Kunstgewerbemuseum Zürich<br>Ausstellung</p>
    <div class="when">
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      <p>Offen: Montag 14-18, 20-22<br>
        Dienstag-Freitag 10-12, 14-18, 20-22<br>
        Samstag-Sonntag 10-12, 14-17
      </p>
    </div>
  </div>
</body>
```

@hdv

Text > images of text

The web is interactive by default

Focus indicators: can I see where I am without using a mouse?

Hide and show: display on demand for less UI clutter
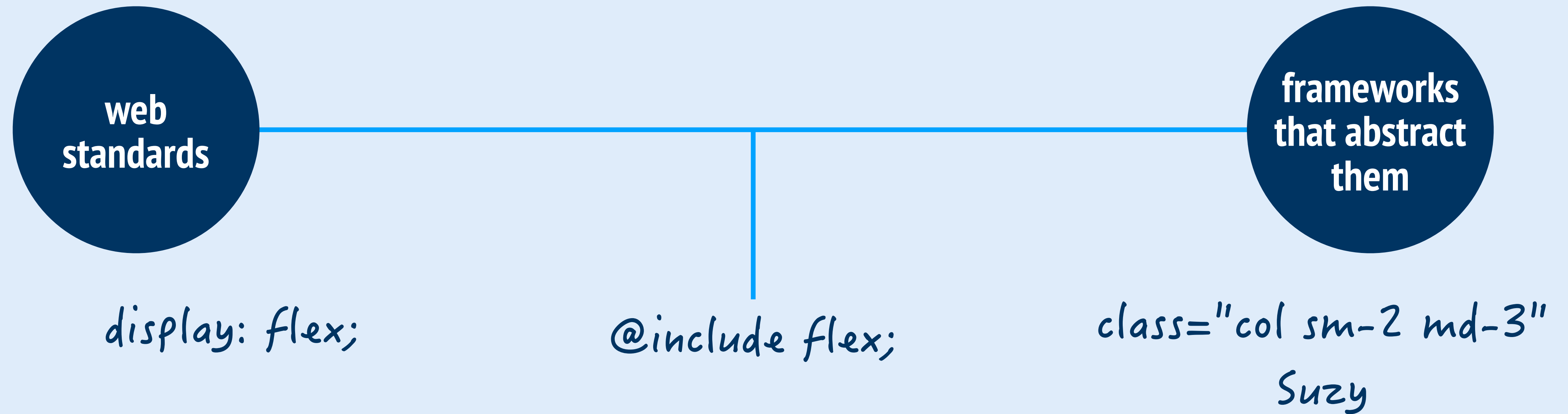
Do transitions make design more pleasurable?

The web is built on web standards

Understanding the standards themselves pays off

web
standards

frameworks
that abstract
them

@hdv

web
standards

frameworks
that abstract
them

display: flex;

@include flex;

class="col sm-2 md-3"
Suzy

> **Grid systems are overkill. I haven't used Suzy in 5 years and I recommend that you stop [using it, too].**
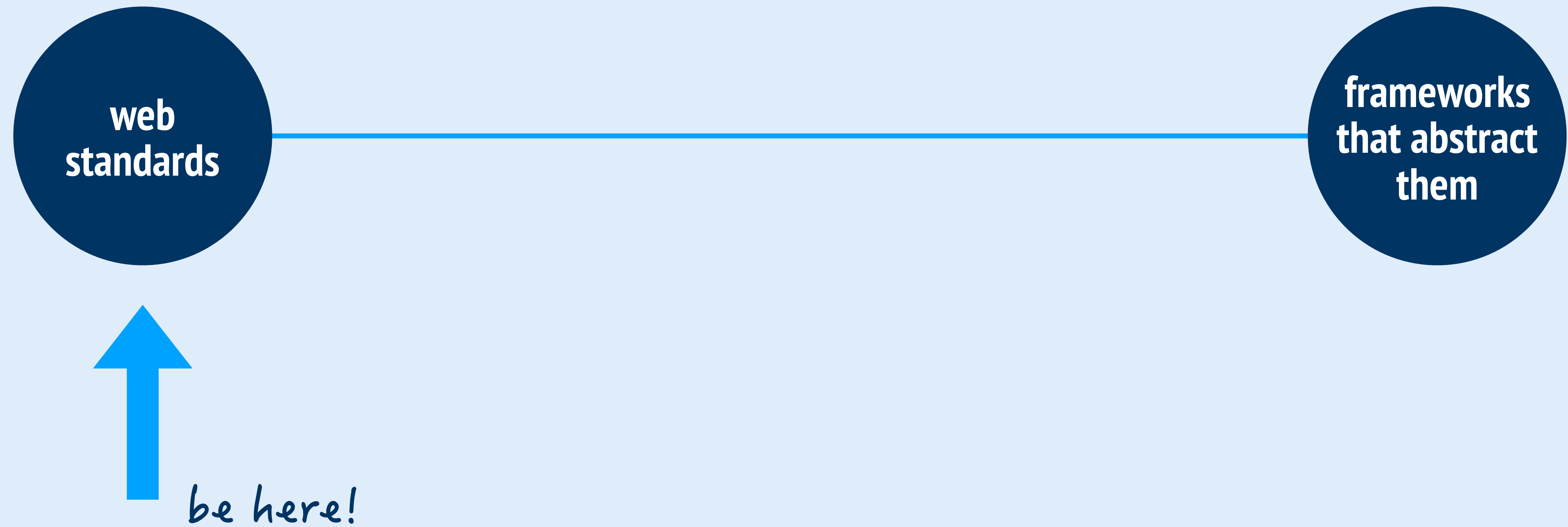
— Miriam Suzanne, creator of Suzy

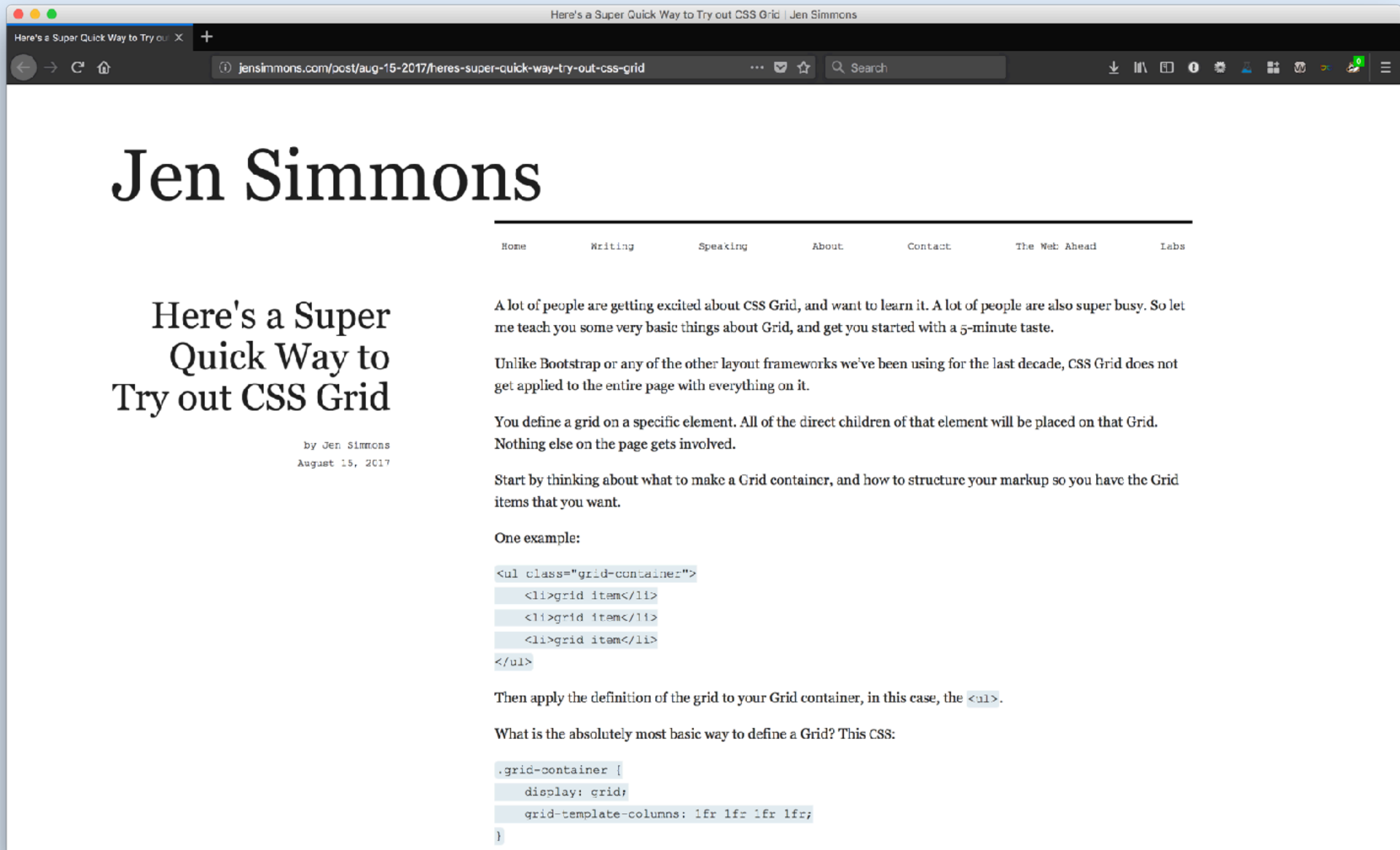In *Don't use my grid system*, presented at Beyond Tellerand (8 May 2018).

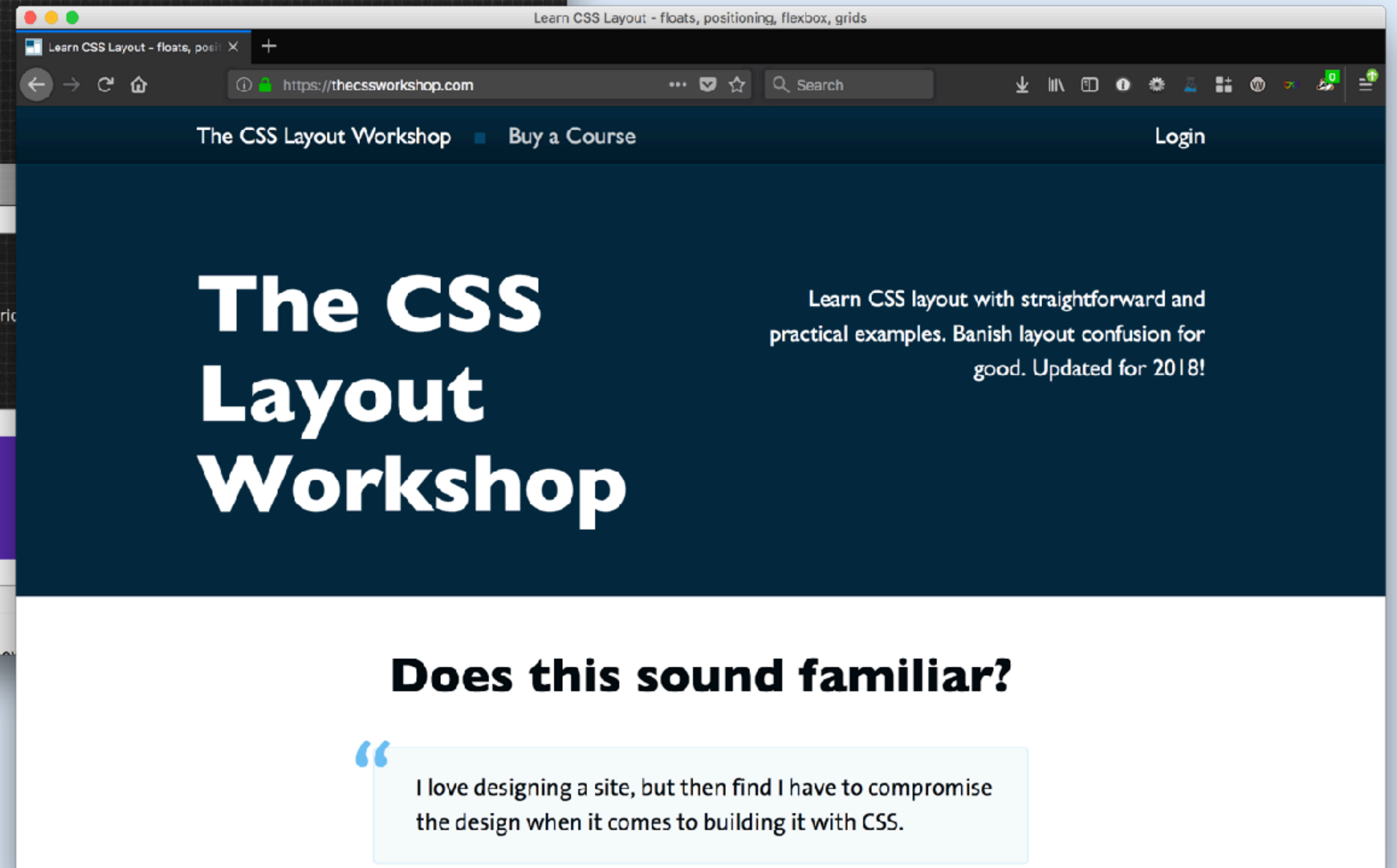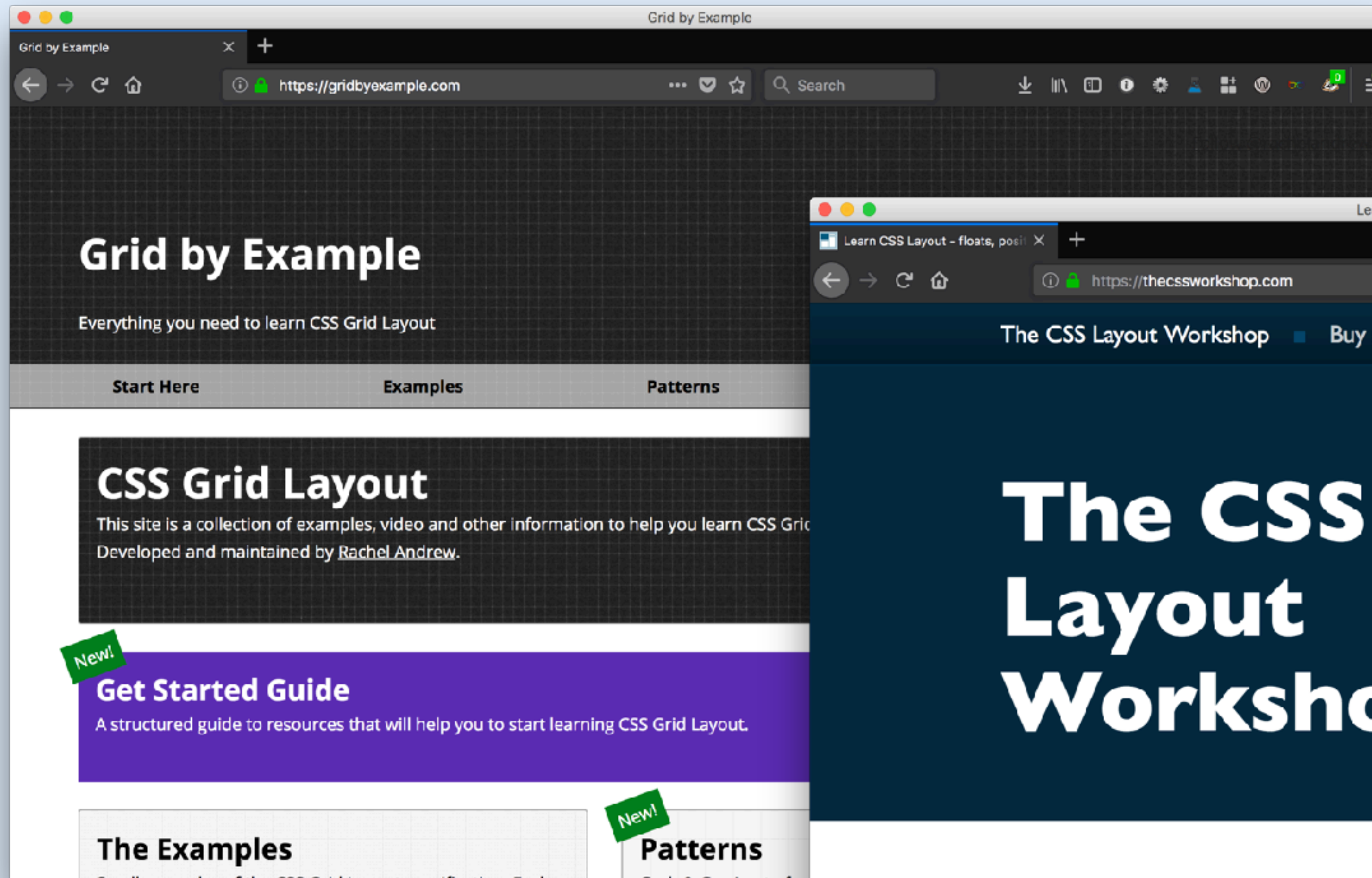# Bootstrap's default grid has 204 classnames to do the maths for your layout

and many other layouts

Choose vanilla!

web
standards

frameworks
that abstract
them

be here!

@hdv

jensimmons.com/post/aug-15-2017/heres-super-quick-way-try-out-css-grid

Jen Simmons

Home   Writing   Speaking   About   Contact   The Web Ahead   Labs

Here's a Super Quick Way to Try out CSS Grid

by Jen Simmons
August 15, 2017

A lot of people are getting excited about CSS Grid, and want to learn it. A lot of people are also super busy. So let me teach you some very basic things about Grid, and get you started with a 5-minute taste.

Unlike Bootstrap or any of the other layout frameworks we've been using for the last decade, CSS Grid does not get applied to the entire page with everything on it.

You define a grid on a specific element. All of the direct children of that element will be placed on that Grid. Nothing else on the page gets involved.

Start by thinking about what to make a Grid container, and how to structure your markup so you have the Grid items that you want.

One example:

```
<ul class="grid-container">
    <li>grid item</li>
    <li>grid item</li>
    <li>grid item</li>
</ul>
```

Then apply the definition of the grid to your Grid container, in this case, the `<ul>`.

What is the absolutely most basic way to define a Grid? This CSS:

```
.grid-container {
    display: grid;
    grid-template-columns: 1fr 1fr 1fr 1fr;
}
```

FLEXBOX FROGGY

Level 4 of 24

Now the lilypads on the edges have drifted to the shore, increasing the space between them. Use `justify-content`. This time, the lilypads have equal spacing between them.

```
1  #pond {
2    display: flex;
3    
4  }
5
6
7
8
9
10
```

Next

Flexbox Froggy is created by Codepip • GitHub • Twitter • English

Want to learn CSS grid? Play Grid Garden.

GRID GARDEN

Level 1 of 28

Welcome to Grid Garden, where you write CSS code to grow your carrot garden! Water only the areas that have carrots by using the `grid-column-start` property.

For example, `grid-column-start: 3;` will water the area starting at the 3rd vertical grid line, which is another way of saying the 3rd vertical border from the left in the grid.

```
1  #garden {
2    display: grid;
3    grid-template-columns: 20% 20% 20% 20% 20%;
4    grid-template-rows: 20% 20% 20% 20% 20%;
5  }
6
7  #water {
8    
9  }
10
11
12
13
14
```

Next

Grid Garden is created by Codepip • GitHub • Twitter • English

Want to learn CSS flexbox? Play Flexbox Froggy.

http://flexboxfroggy.com / http://cssgridgarden.com

@hdv

~ We can now do: ~

**equal heights
intentional whitespace
mathematical proportions
proportionate to viewports
compositions with overlapping content**

~ Design for web thrives, because it is: ~

**flexible
accessible
interactive
standards-based**

It's a great time to do graphic design on the web!

Thanks!

Many thanks to Vasilis van Gemert, Krijn Hoetmer, Jenny Shen and Peter van Grieken.

@hdv

hidde@hiddedevries.nl

https://hiddedevries.nl/en/blog

https://noti.st/hdv