

THE ULTIMATE SOLUTION TO WEB LAYOUT

Vietnam Web Summit 12-2017

About me:

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Co-founder & CTO Nau Studio

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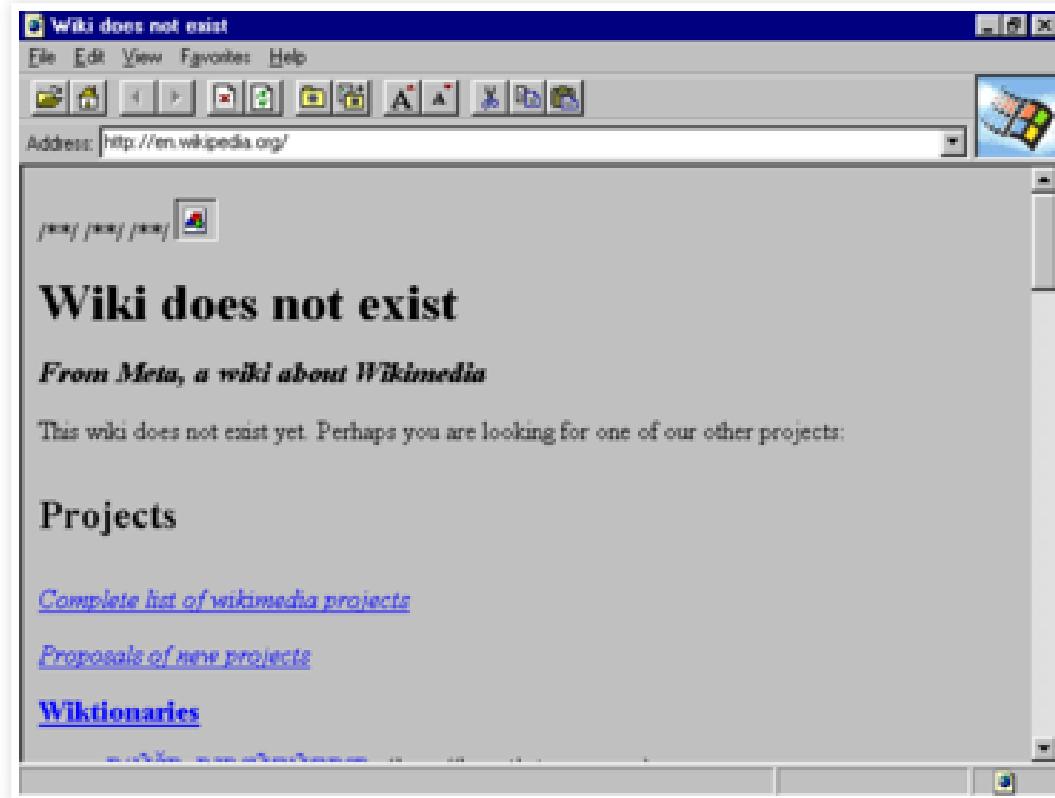
A BRIEF HISTORY OF WEB LAYOUT



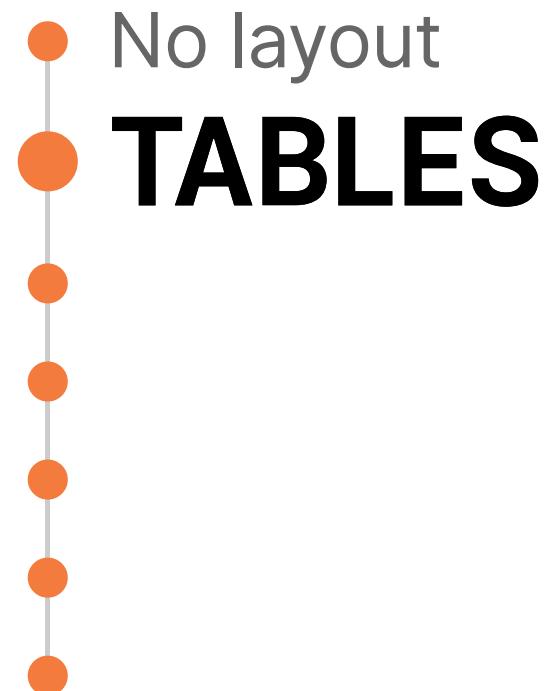
NO LAYOUT



Netscape Navigator



Internet Explorer 1



JULY 14

Welcome to Apple 1997

[Find It](#)

[Product Information](#)

[Customer Support](#)

[Technology & Research](#)

[Developer World](#)

[Groups & Interests](#)

[Resources Online](#)

[About Apple](#)

[Apple Sites Worldwide](#)

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[United States](#)

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Introducing CyberDrive
Register today for a free CD-ROM.

eMATE 300
Mobile, Affordable, & Smart



MOVIES FROM MARS
QuickTime VR Takes You Out of this World!



What's Hot

Preorder Mac OS 8
Now you can [preorder Mac OS 8](#), described by Macworld as "the most comprehensive update to the Mac OS in years, sporting a bold new look, a speedier Finder, more shortcuts and integrated Internet functions."

Be the First to Know
Learn about new Macintosh software releases the moment they become available. Check [Hot Mac Products](#) to hear about programs like Speed Demon, ReBirth RB-338 and QuickCRC.

Want a PowerBook?
Qualify to win a [PowerBook 3400/200](#) by [entering](#) this month's Apple Registration Sweepstakes.

Newton Connects
Newton, Inc., will enhance network connectivity for Newton-based devices this fall via [Newton Internet Enabler 2.0](#). Ethernet capability can connect devices to Local Area Networks.

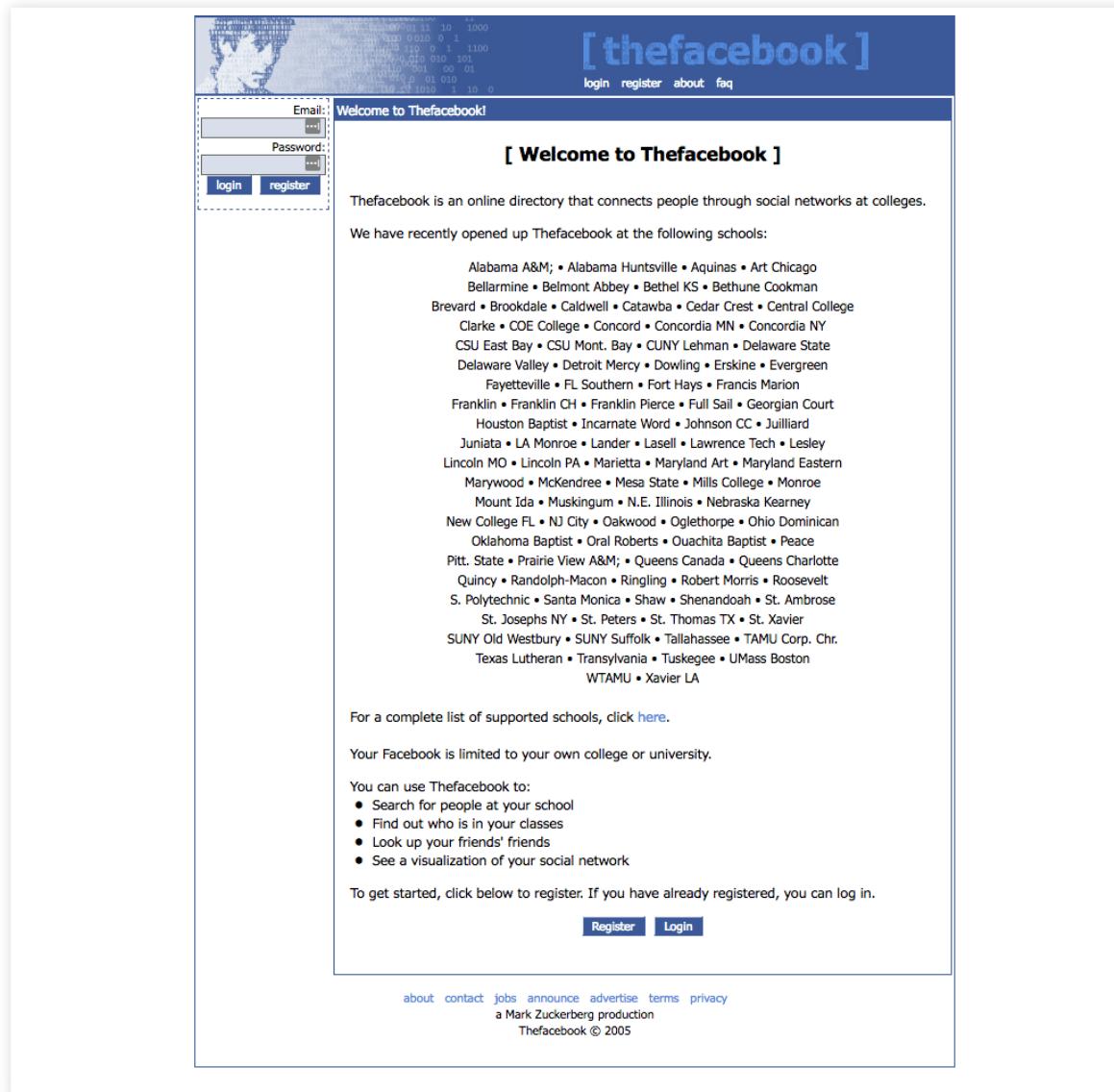
Big Help for Small Biz Find out what you need to make your small business a success. [Apple Small Business](#) has information about everything from great deals on leasing to dealing with the SBA.

eMate Special
Parents of school-age children have a limited-time [special opportunity](#) to purchase Apple's exciting eMate 300 mobile computer at promotional prices.

Welcome to Mars
See alien terrain in [QuickTime VR movies from Sojourner](#), the brave six-wheeler that covers the Red Planet for NASA's Pathfinder mission.

Boston Mac Party
Join the fun at [Macworld Expo/Boston](#), the summer's biggest bash for the Macintosh community, August 5-8.

Apple Softwear
Find t-shirts, jackets,



The screenshot shows the homepage of Thefacebook.com. At the top, there's a navigation bar with links for login, register, about, and faq. Below the navigation is a large blue header with the text "[thefacebook]". On the left side, there's a sidebar with fields for Email and Password, and buttons for login and register. The main content area has a title "[Welcome to Thefacebook]" and a sub-headline "Thefacebook is an online directory that connects people through social networks at colleges." It lists numerous college names across the United States. Below this list, there's a note about supported schools, a statement about using it for one's own college, a list of uses, and a registration/login section. At the bottom, there are links for about, contact, jobs, announce, advertise, terms, and privacy, along with a copyright notice for 2005.

Facebook.com 2005

TABLES

- Tables are not meant for layouts
- Unfriendly with screen readers
- Fixed width



The screenshot shows a web browser window displaying a page from the Apple website. The page features a sidebar on the left with links like "Resources Online", "About Apple", and "Apple Sites Worldwide". The main content area includes a banner for "Preorder Mac OS 8" and a section titled "What's Hot". Below the content, a navigation bar offers "Inspector", "Console", "Debugger", "Style Editor", and "Performance". A search bar at the bottom right says "Search HTML". The central part of the image is a large block of HTML code. At the top of this code block, the text "**<!--*** T O P T A B L E ***-->**" is visible. Below it, the code shows the structure of a table used for layout:

```

<table width="598" cellspacing="0" cellpadding="0" border="0">
  <!--* ROW 1 *-->
  <tbody>
    <tr>
      <!--COLUMN 1: S I D E B A R M E N U-->
      <td rowspan="3" width="128" valign="top">...</td>
      <!--COLUMN 2: L E F T G U T T E R-->
      <td rowspan="3" width="7">...</td>
      <!--COLUMN 3-7: T I T L E B A N N E R-->
      <td colspan="5" width="463">...</td>
    </tr>
    <!--* ROW 2 *-->
    <tr>...</tr>
    <!--* ROW 3 *-->
    <tr>...</tr>
  </tbody>
</table>

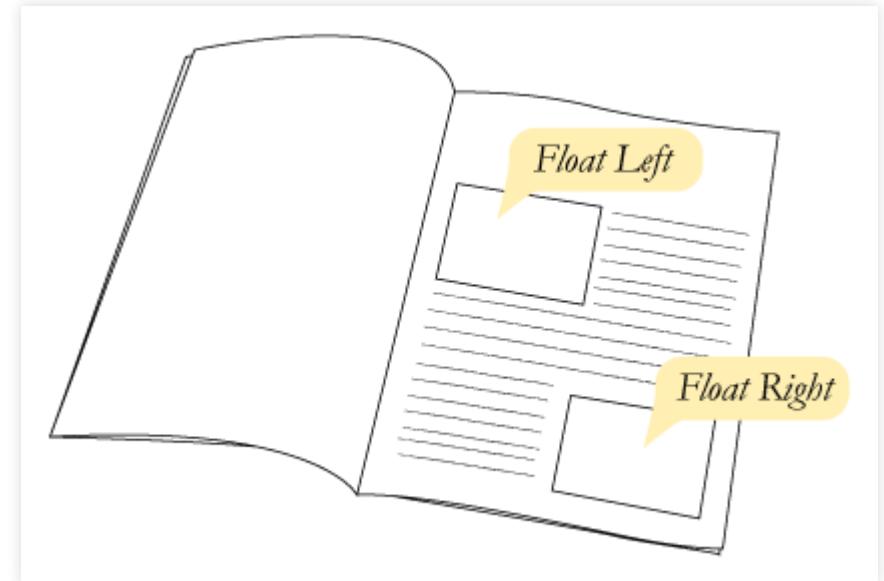
```

At the very bottom of the code block, a breadcrumb navigation path is shown: "html > body > form > table > tbody > tr > td".

- No layout
- Tables
- **FLOATS**
-
-
-
-
-

FLOATS

CSS Floats were created to imitate print layout counterparts



Floats in print layout

Image from: <https://css-tricks.com/all-about-floats/>

FLOATS

```
<p>...  
  
...</p>
```

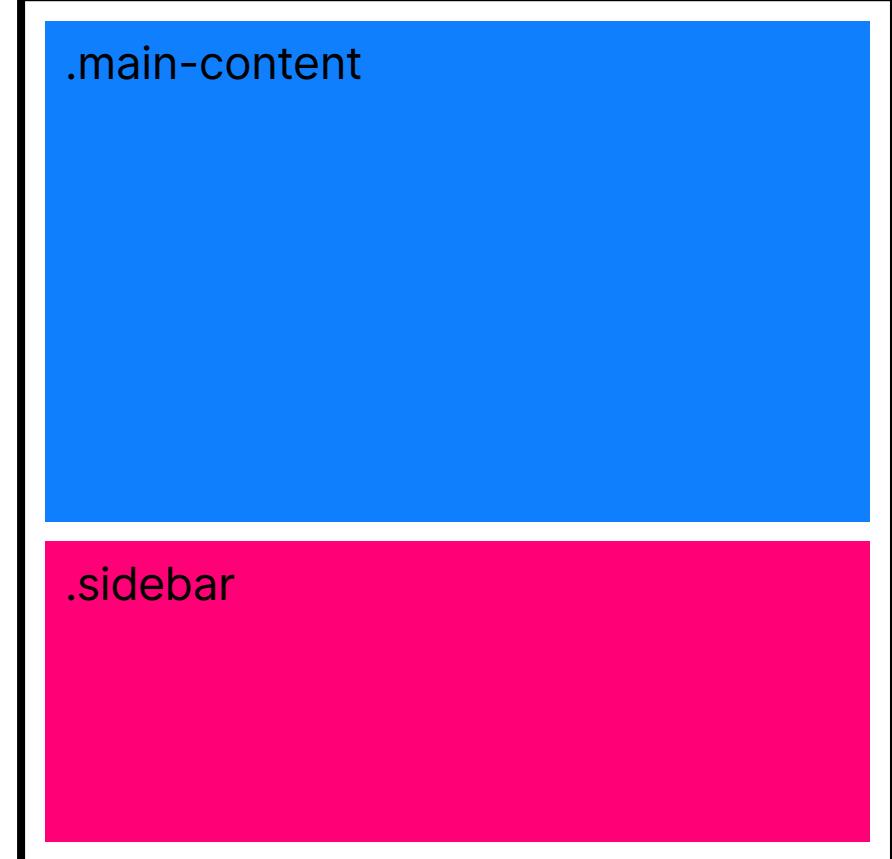
```
.float-left {  
    float: left;  
}
```

The float CSS property specifies that an element should be placed along the left or right side of its container, allowing text and inline elements to wrap around it. The element is removed from the normal flow of the web page, though still remaining a part of the flow (in contrast to absolute positioning). A floating element is one where the computed value of float is not none. As mentioned above, when an element is floated, it is taken out of the normal flow of the document (though still remaining part of it). It is shifted to the left, or right, until it touches the edge of its containing box, or another floated element.



```
.wrapper {  
    border: 4px solid black;  
}  
.main-content {  
    background-color: blue;  
}  
.sidebar {  
    background-color: red;  
}
```

.wrapper

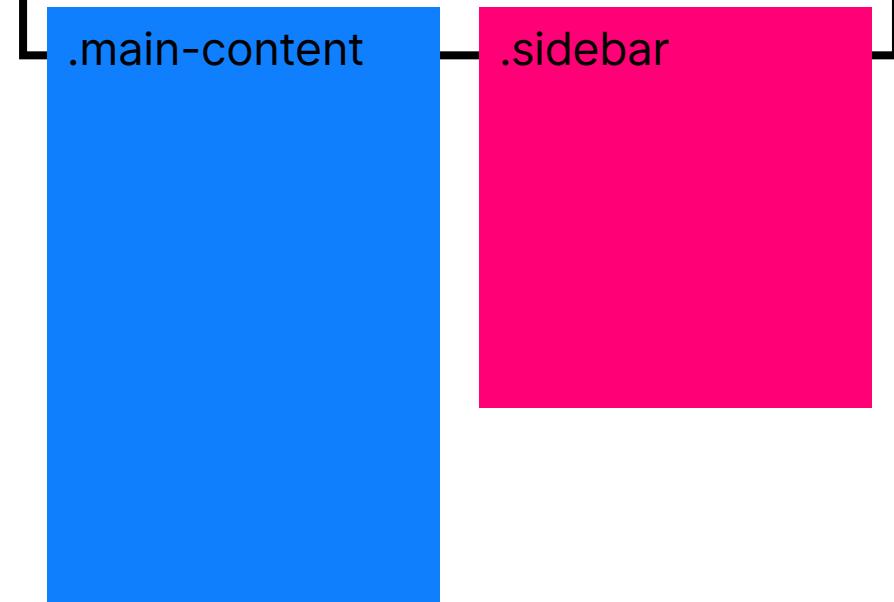


.main-content

.sidebar

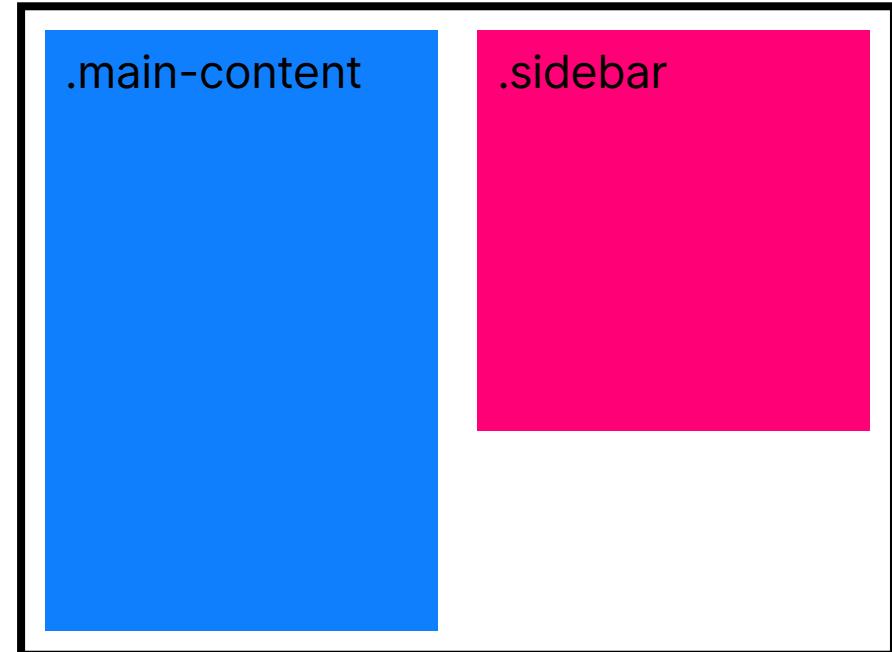
```
.wrapper {  
    border: 4px solid black;  
}  
.main-content {  
    background-color: blue;  
    float: left;  
}  
.sidebar {  
    background-color: red;  
    float: right;  
}
```

.wrapper



```
.wrapper {  
    border: 4px solid black;  
}  
.main-content {  
    background-color: blue;  
    float: left;  
}  
.sidebar {  
    background-color: red;  
    float: right;  
}  
.clearfix::after {  
    display: block;  
    content: '';  
    clear: both;  
}
```

.wrapper.clearfix



Download the MSN Search Toolbar
Change colors: Simple White | [Classic Blue](#)

Select a Category: [Web](#) | [News](#) | [Images](#) | [Desktop](#) | [Encarta](#) | [Local](#) | [New](#)

[msn.com](#) | [Search the Web:](#) [Search](#)

News & Sports
 News
 Slate Magazine
 Sports by FOX Sports
 Video
 Weather

Look It Up
 City Guides
 Encarta
 Maps & Directions
 White Pages
 Yellow Pages

Living & Finances
 Autos
 Careers & Jobs
 Dating & Personals
 Health & Fitness
 House & Home
 Money
 Travel

Entertainment
 Games
 Horoscopes
 Movies
 Music
[Rock Star:INXS](#)
 TV

Shop
 Air Tickets
 Autos - New and Used
 Buy a House
 Rent an Apartment
[NEW! - Shopping](#)

Technology
 Downloads
 Microsoft.com
 Microsoft Update
 Tech & Gadgets

People
 Family
 Greeting Cards
 Groups & Chat
 Kids
 Latino
 Women

MSN Directory
 MSN Worldwide

Switch to broadband version

Wednesday, Aug 31



KATRINA'S TOLL MOUNTS
Latest news on crisis in hurricane's aftermath

TODAY ON MSN

- New Orleans sinks into public-health disaster
- Sympathy, some criticism from world after Katrina
- 100 Heisman hopefuls
- Do you love your job?

HIGHLIGHTS

- Ways to avoid common weight loss mistakes
- Offer: Rent DVDs for \$17.99 monthly
- Download MSN Toolbar

[HOTMAIL](#)
[MESSENGER](#)
[MY MSN](#)
[SIGN IN](#)

[Ad Feedback](#)

Katrina relief: How to make a donation

SPOTLIGHT



MSNBC NEWS

- Anti-war mom goes on road
- Chimp genome compared
- Finally, free credit reports

SPORTS BY FOX SPORTS

- Saints try to focus on football
- Spurs get coveted free agent

ALSO ON MSN



Dealing with 5 sneaky stressors

- New on DVD: J.Lo takes on J.Po
- Decorate a rental to suit your life
- Exit strategy can aid severance pay
- Women: Handling unwanted hugs

ENTERTAINMENT



Gossip: Jen & Vince get down

- Martha to remove ankle bracelet
- Witherspoon on the mommy track
- 'Empire Strikes Back' actor dies
- Ashlee dishes on 'dirty' movie

LOCAL INFORMATION

Find restaurants, bars, news, weather and more ...

Enter zip code:

MSN SERVICES

• E-mail Solutions	• MSN Messenger
• MSN Music	• MSN Premium
• MSN Search Toolbar	• MSN 9 Dial-up

MONEY

Dow	10,481.60	+ 68.78	Get Quote:
NASDAQ	2,152.09	+ 22.33	<input type="button" value="Go"/>
S&P	1,220.33	+ 11.92	Quotes delayed 20 min.

Financial News

- \$3-a-gallon gas has arrived
- U.S. taps oil reserve; prices sink under \$70
- 3 ways you can go broke in real estate

Tradest: Ameritrade, ShareBuilder, Scottrade
Find Now: Mortgage & Refinance, Credit Score

SHOPPING



AVON exclusive: Free ship & 60% off

Dress to impress - fall fashion styles

Free paper at Office Depot

Down blanket all sizes \$24.95

Overstock: \$1 shipping

Wal-Mart: Gear up for college now

Shop designer handbags - tjmaxx.com

Dell Home Deals
 \$499 Dell Home notebook (\$649 pre mail-in rebate)

POPULAR SEARCHES

Top 5 Search Movers

1. Hurricane Katrina
2. Natalie Holloway
3. Teri Hatcher
4. Reese Witherspoon
5. Britney Spears

Suggested Searches

- News: Poaching
- Chisos Mountains
- Ozone layer
- Gluten-free
- Red tide

[Search the Web:](#)
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MSN.com 2005



Zen Garden

A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the list to load it into this page.

Download the sample [html file](#) and [css file](#)

The Road to Enlightenment
Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, and broken [CSS support](#).

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the [W3C](#), [WaSP](#) and the major browser creators.

The css Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the (yet to be) time-honored techniques in new and invigorating fashion. Become one with the web.

So What is This About?
There is clearly a need for [CSS](#) to be taken seriously by graphic artists. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The code remains the same, the only thing that has changed is the external .css file. Yes, really.

[CSS](#) allows complete and total control over the style of a hypertext document. The only way this can be illustrated in a way that gets people excited is by demonstrating what it can truly be, once the reins are placed in the hands of those able to create beauty from structure. To date, most examples of neat tricks and hacks have been demonstrated by structurists and coders. Designers have yet to make their mark. This needs to change.

Participation
Graphic artists only please. You are modifying this page, so strong [CSS](#) skills are necessary, but the example files are commented well enough that even [CSS](#) novices can use them as starting points. Please see the [CSS Resource Guide](#) for advanced tutorials and tips on working with [CSS](#).

You may modify the style sheet in any way you wish, but not the [HTML](#). This may seem daunting at first if you've never worked this way before, but follow the listed links to learn more, and use the sample files as a guide.

Download the sample [html file](#) and [css file](#) to work on a copy locally. Once you have completed your masterpiece (and please, don't

The Beauty of [CSS Design](#)



select a design:

- [sub:lime by Andy Budd](#)
- [I Dream In Colour by Jeff Bilen](#)
- [si6 by Shaun Inman](#)
- [Burning by Kevin & Ethel Davis](#)
- [Stone Washed by Andrew Hayward](#)
- [door to my garden by Patrick H. Lauke](#)
- [The Question Why by Diane Clayton](#)
- [Erratic Blue by Ian Main](#)

archives:

- [next designs »](#)
- [View All Designs](#)

resources:

- [View This Design's CSS](#)
- [CSS Resources](#)
- [FAQ](#)
- [Submit a Design](#)
- [Translations](#)

csszengarden.com default 2003



CSS ZEN GARDEN

The Beauty of CSS Design

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 Download the sample [html file](#) and [css file](#)

Select a Design

- [Burnt Offering](#) by Jonny Blair
- [Salvage Yard](#) by Justin Peters
- [Switch On](#) by Michael Fasani
- [Mountain Resort](#) by Jordi Romkema
- [Grüener Entwurf](#) by Hannah F. Liesong
- [Perfume de Gardenias](#) by Armando Sosa
- [Pneuma](#) by Adam Polselli
- [Birdhouse](#) by Justin Vilela

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Resources

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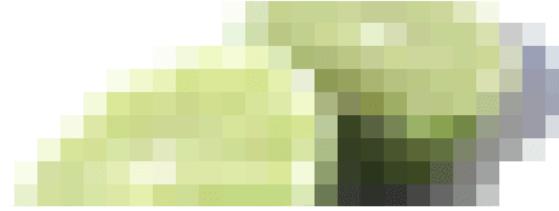
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csszengarden.com with lotus theme

CSS Zen Garden
THE BEAUTY OF CSS DESIGN

v0.2
sub:lime



A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the list to load it into this page.

Download the sample html file and css file

xhtml css cc 508 aaa

Select a Design

- Gemination
by Egor Kloos
- Sky
by Stefan Petre
- Extreme Limits
by Richard Chatfield
- Dune Temple
by Greg Reimer
- Radio Zen
by Marc LA van den Heuvel
- This is Cereal
by Shaun Inman
- Elevation
by Nigel Goodfellow
- zenlightenment
by Lance Leonard

Archive

[next designs »](#)
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Resources

[HTML](#) [CSS](#) [JavaScript](#) [XSLT](#) [Server-Side CSS](#) [Image Maps](#) [Form Validation](#) [AJAX](#) [RSS](#) [Sitemaps](#) [Search Engines](#) [Print](#)

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csszengarden.com with sub:lime theme

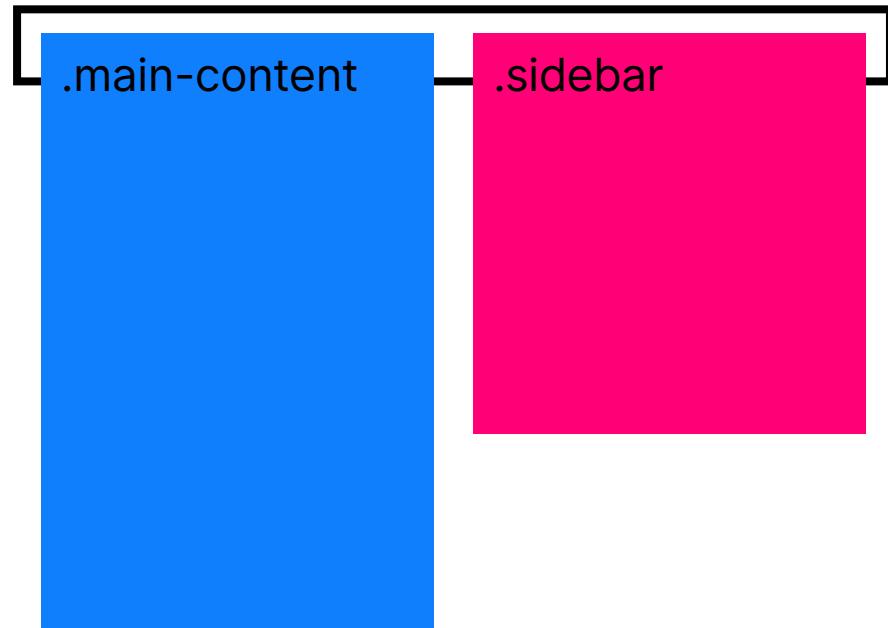
FLOATS

- Need clear-fixes
- No center method
- Cannot control column's height

.wrapper

.main-content

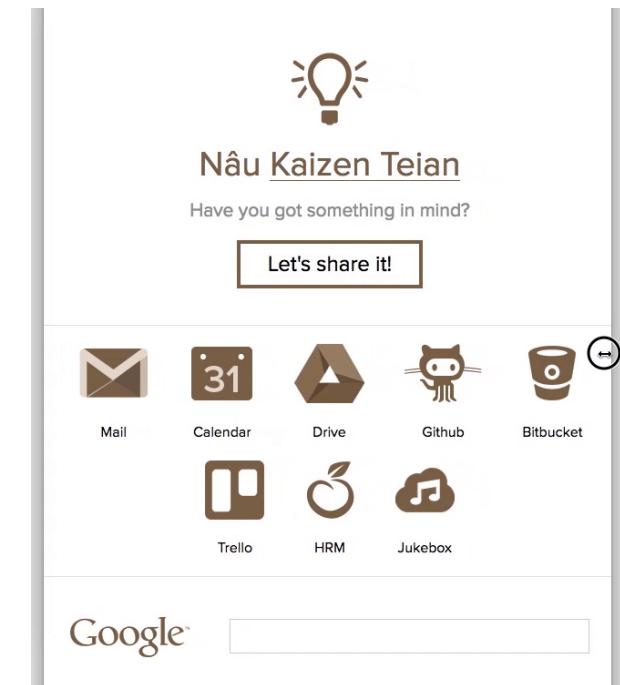
.sidebar



- No layout
- Tables
- Floats
- **INLINE-BLOCK**
-
-
-

INLINE-BLOCK

```
.wrapper {  
    text-align: center;  
}  
.item {  
    display: inline-block;  
}
```



The image shows a user profile page for "Nâu Kaizen Teian". At the top is a large lightbulb icon. Below it, the name "Nâu Kaizen Teian" is displayed with a blue underline. A question "Have you got something in mind?" is followed by a button labeled "Let's share it!". Below this is a grid of icons for various services: Mail (envelope), Calendar (calendar), Drive (drive), Github (octocat), Bitbucket (cup with code), Trello (list), HRM (apple), and Jukebox (cloud with music note). At the bottom left is a "Google" search bar.

INLINE-BLOCK

- Implicit inline character spacing
- text-align are inherited in child elements
- Popular grid frameworks use floats

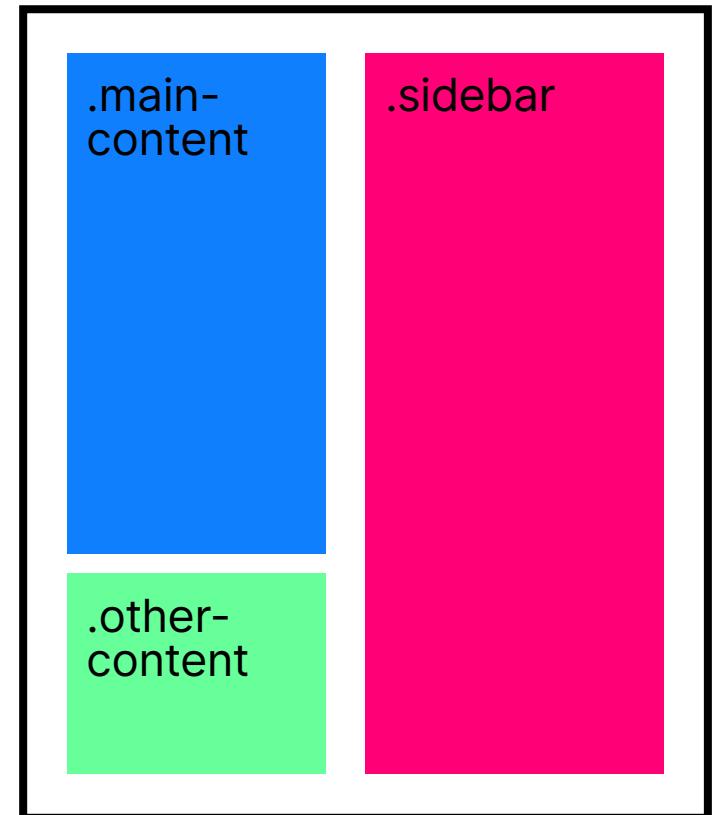
```
<ul class="menu">
  <li>Home</li><!-- no space
--><li>About</li><!-- no space
--><li>Pricing</li><!-- no space
--><li>Contact</li>
</ul>
```

- No layout
- Tables
- Floats
- inline-block
- **FLEX BOX**
-
-

FLEX BOX

```
<main class="wrapper">
  <!-- not possible -->
  <div class="main-content"></div>
  <div class="other-content"></div>
  <!-- with flex box -->
  <aside class="sidebar"></aside>
</main>
```

.wrapper



FLEX BOX

```
<main class="wrapper">
  <div class="container">
    <div class="main-content"></div>
    <div class="other-content"></div>
  </div>
  <aside class="sidebar"></aside>
</main>
```

.wrapper

.container

.main-content

.sidebar

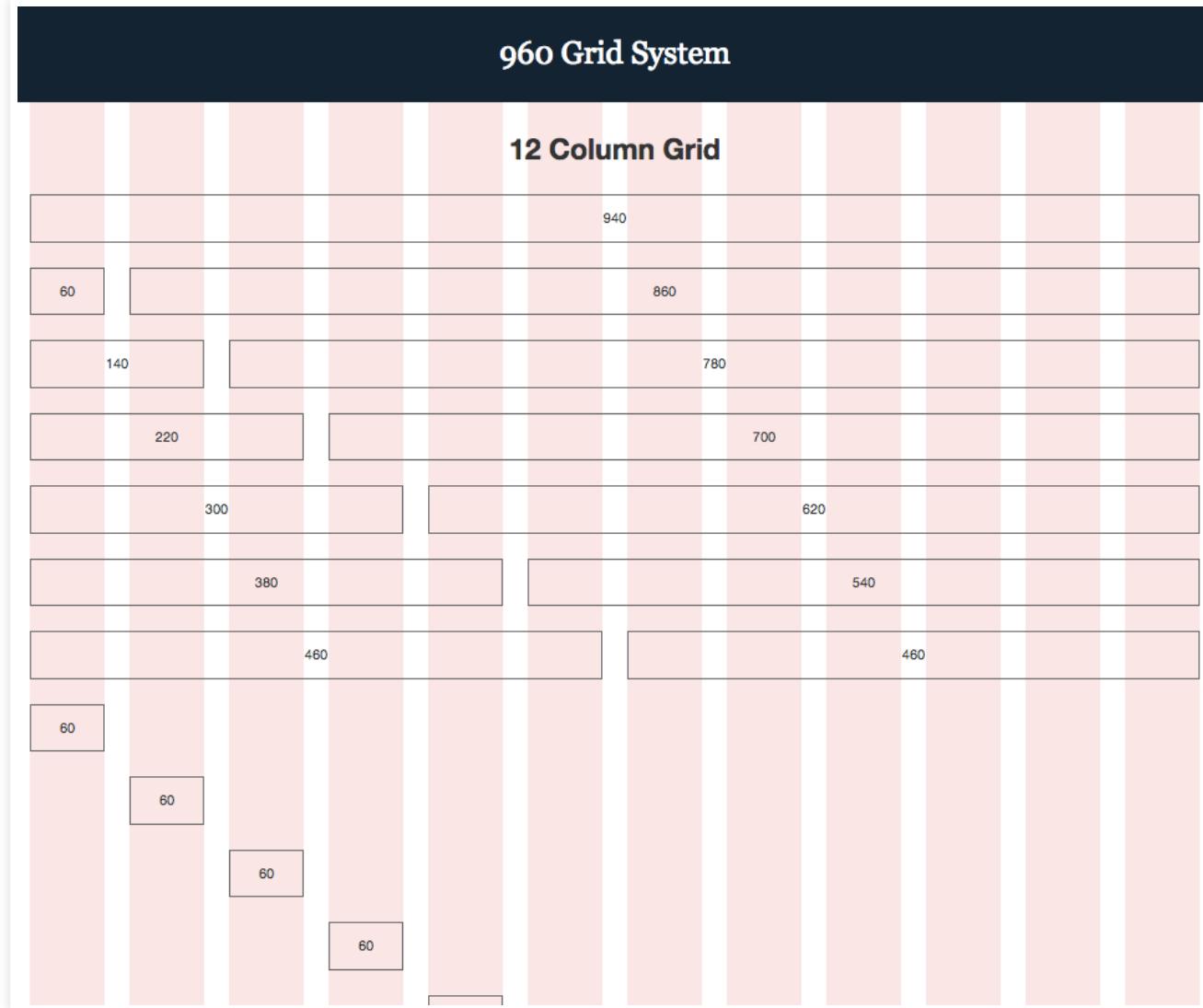
.other-content

FLEX BOX

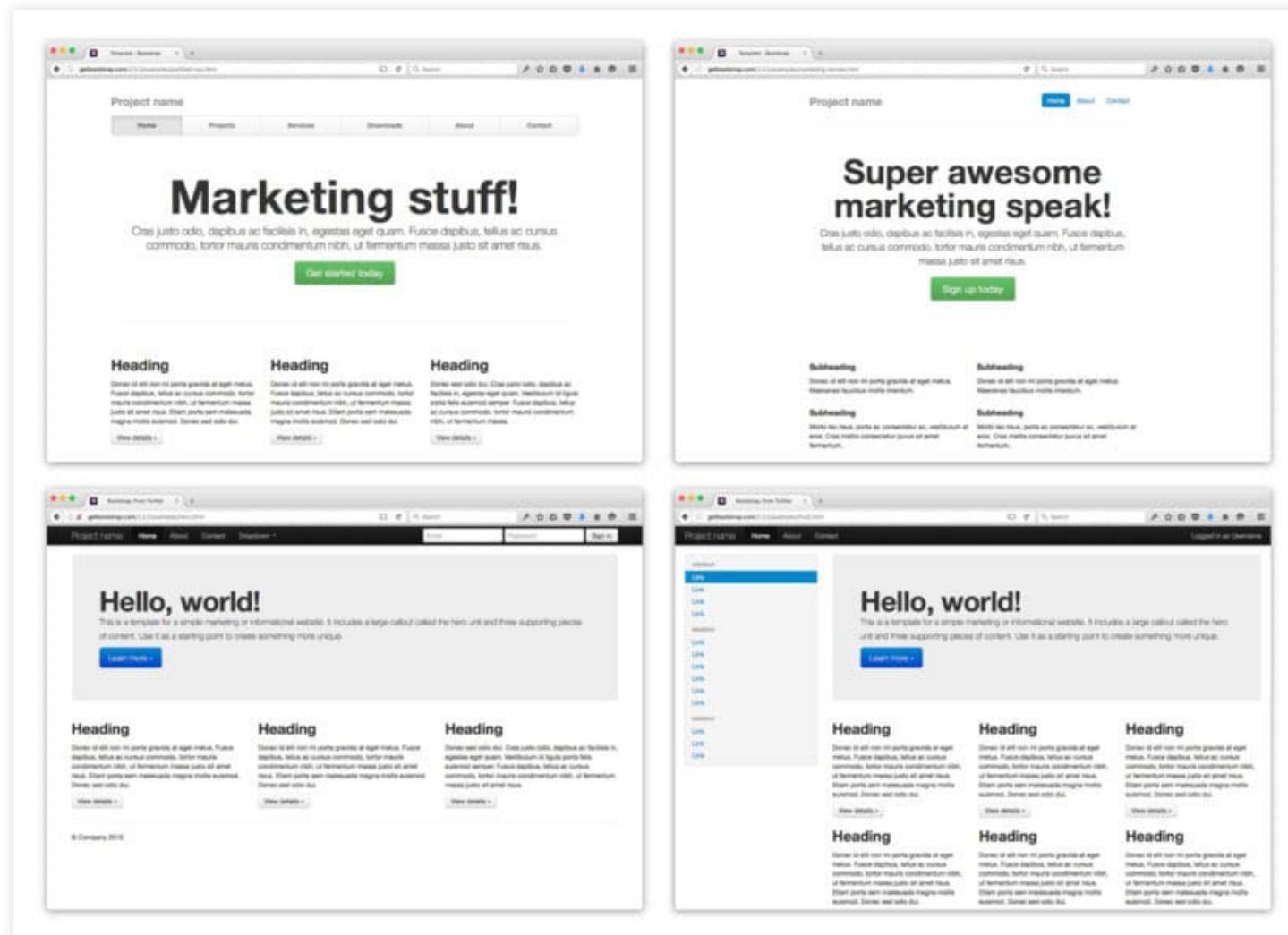
- One directional layout method
- Layout with flex boxes require hacks

- No layout
- Tables
- Floats
- inline-block
- Flex Box

CSS FRAMEWORK



<https://960.gs/demo.html>



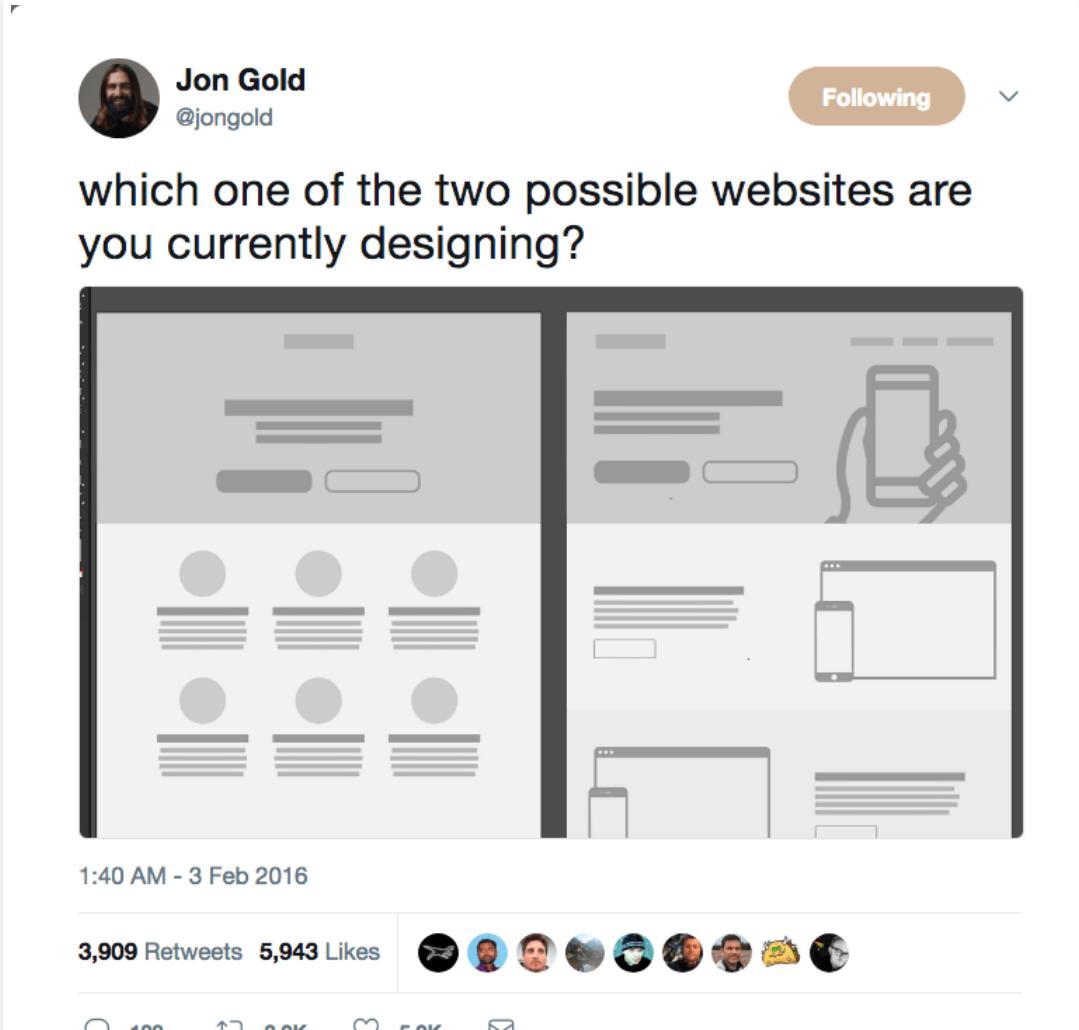
The image displays four screenshots of a website template builder interface, likely from GetSchooled's platform. Each screenshot shows a different project page with placeholder text and a green 'Get started today' button.

- Project name:** Marketing stuff!
- Project name:** Super awesome marketing speak!
- Project name:** Hello, world!
- Project name:** Hello, world! (Logged in as Username)

Content Components:

- Hero Unit:** A large callout with the heading "Marketing stuff!" or "Super awesome marketing speak!" followed by a brief description and a "Get started today" button.
- Section Headers:** "Heading" and "Subheading" repeated across the pages.
- Text Content:** Placeholder text describing a service or product, such as "Cras justo odio, dapibus ac facilisis in, egmontis egestas diam. Fusce dapibus, tellus ac cursus commodo, tortor massa condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio.
- Call-to-Action:** "View details" button.
- Sidebar:** On the rightmost project page, there is a sidebar with a navigation menu (Links, About, Services, etc.) and a "Hello, world!" section.

<https://goo.gl/1U2GjJ>



which one of the two possible websites are you currently designing?

1:40 AM - 3 Feb 2016

3,909 Retweets 5,943 Likes

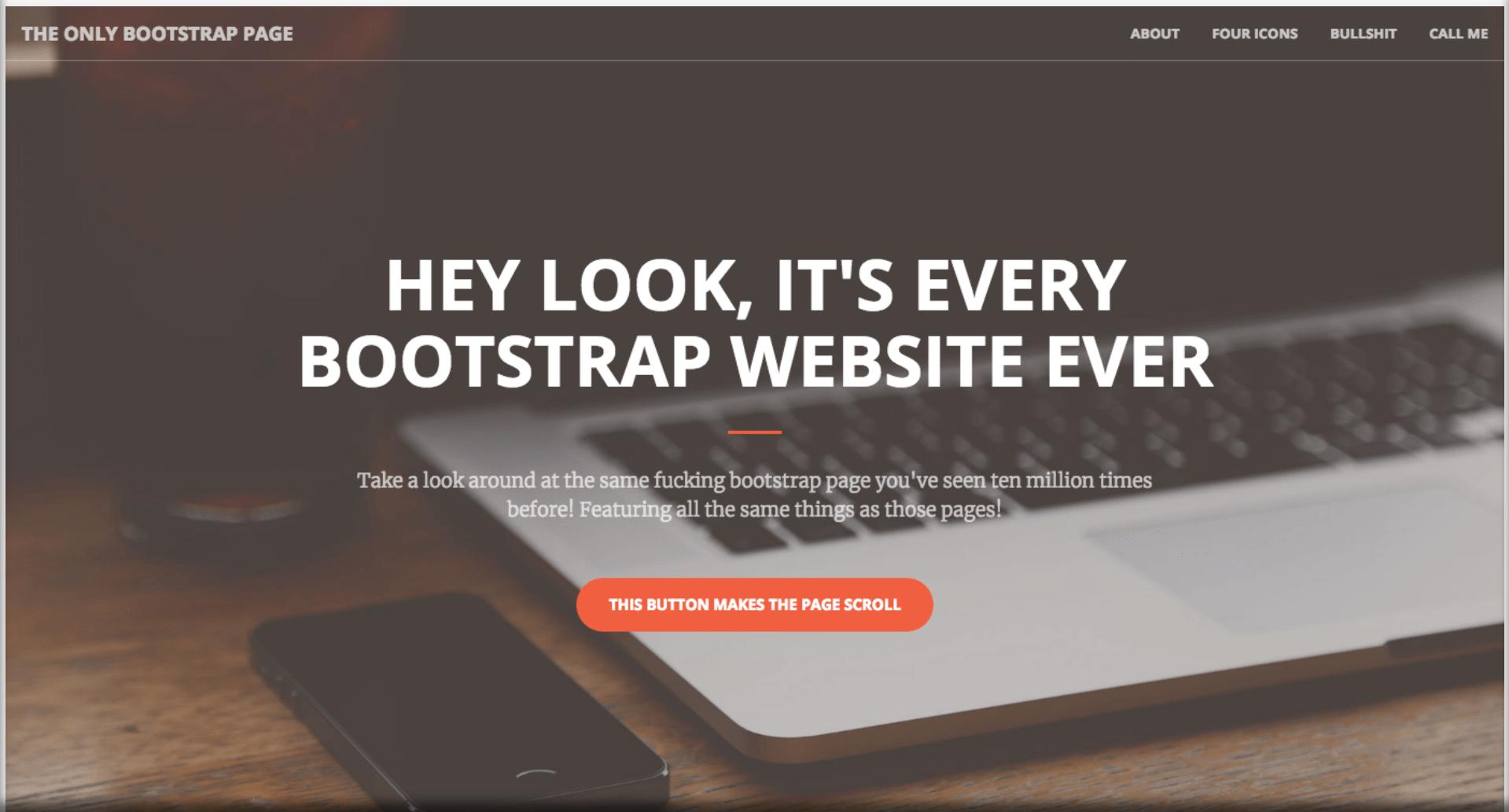
<https://goo.gl/swzuZE>

THE ONLY BOOTSTRAP PAGE

ABOUT FOUR ICONS BULLSHIT CALL ME

HEY LOOK, IT'S EVERY BOOTSTRAP WEBSITE EVER

Take a look around at the same fucking bootstrap page you've seen ten million times before! Featuring all the same things as those pages!

A black smartphone lies on a dark wooden desk next to a white laptop. The laptop screen displays the same bootstrap page. A keyboard is visible in the background.

THIS BUTTON MAKES THE PAGE SCROLL

Every F*king Bootstrap Website Ever / <http://adventurega.me/bootstrap/>

PROBLEMS:

- We've been learning hacks to do **web layout**
- Current tools are one directional, content-out
- Frameworks and fixed grid limit creativity
- Layout with CSS is hard!

SOLUTION?

- No layout
- Tables
- Floats
- inline-block
- Flex Box
- CSS Framework
- **CSS GRID**

CSS GRID CONCEPTS

- Grid **container**
- Grid **item**
- Grid **line**
- Grid **track**
- Grid **gap**
- Grid **cell**
- Grid **area**

GRID CONTAINER

Elements containing a grid,
defined by setting
display: grid

```
<main class="wrapper">
  <header class="main-header"></header>
  <div class="main-content"></div>
  <div class="other-content"></div>
  <aside class="sidebar"></aside>
  <footer class="main-footer"></footer>
</main>
```

```
.wrapper {
  display: grid;
}
```

GRID ITEM

direct children of grid container

```
<main class="wrapper">
  <header class="main-header"></header>
  <div class="main-content"></div>
  <div class="other-content"></div>
  <aside class="sidebar"></aside>
  <footer class="main-footer"></footer>
</main>
```

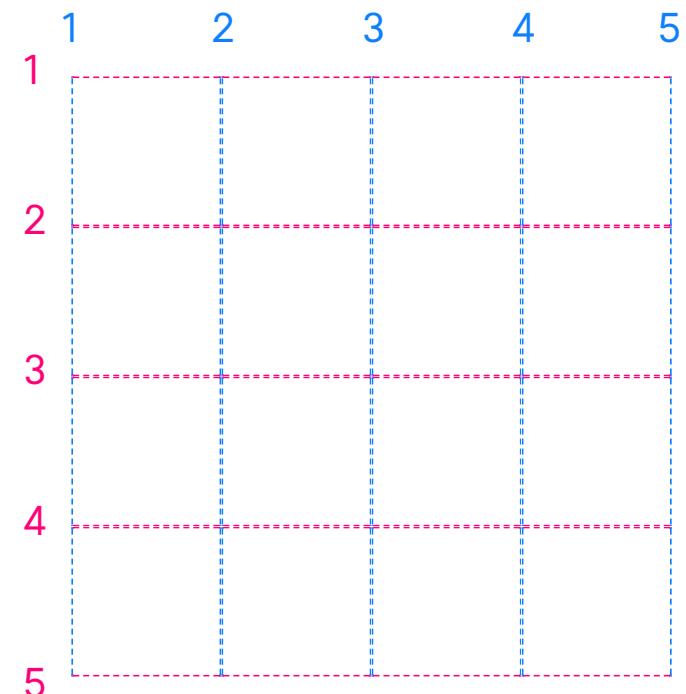
(Here: grid items are children of `main.wrapper`)

GRID LINE

Invisible lines divide the grid into sections.

Grid lines order respect writing direction

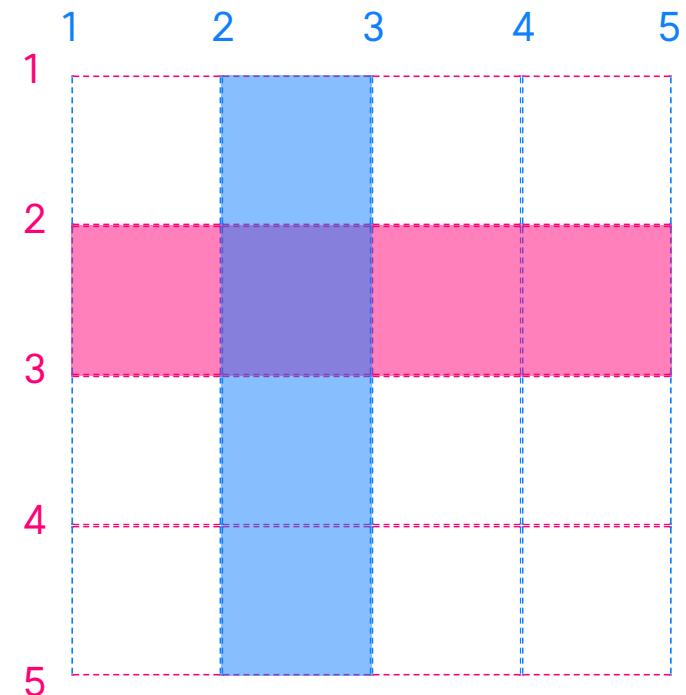
Grid lines are 1-based!



GRID TRACK

A grid track is the space between any two lines on the grid.

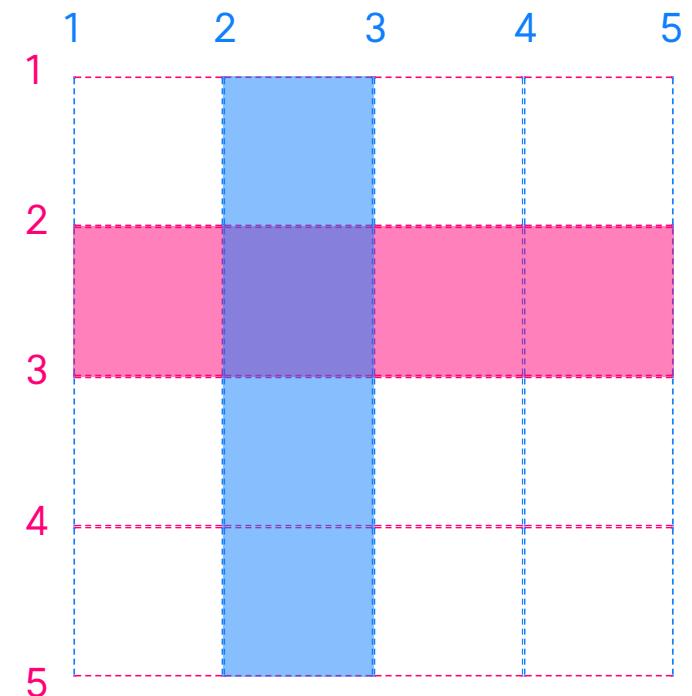
Grid tracks are content **rows** and **columns**



GRID TRACK

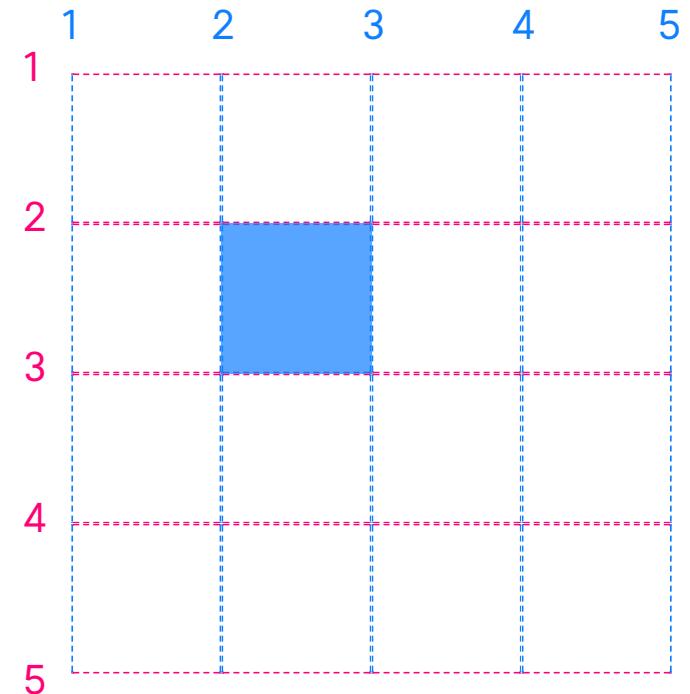
Defined at container:

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



GRID CELL

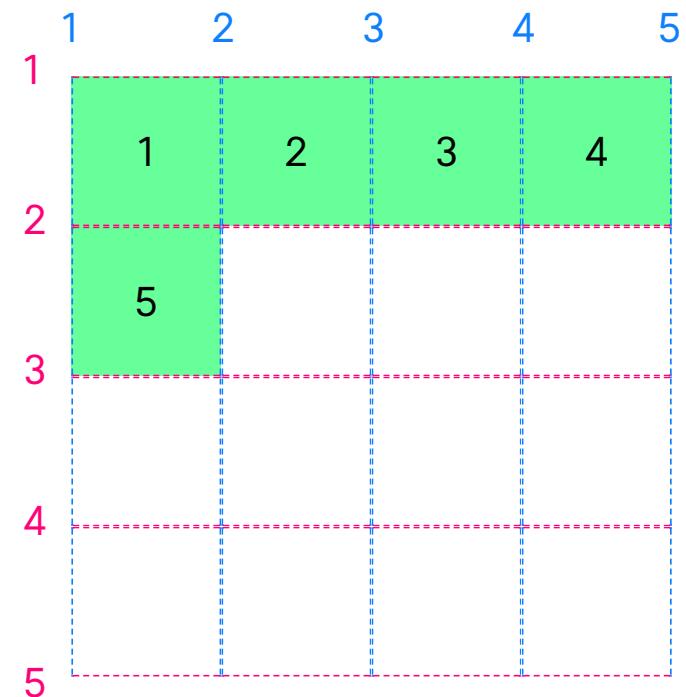
Intersection between grid row and grid column.
Conceptually it is like a table cell.



GRID CELL

Grid items are auto placed in cells with the order of grid lines.

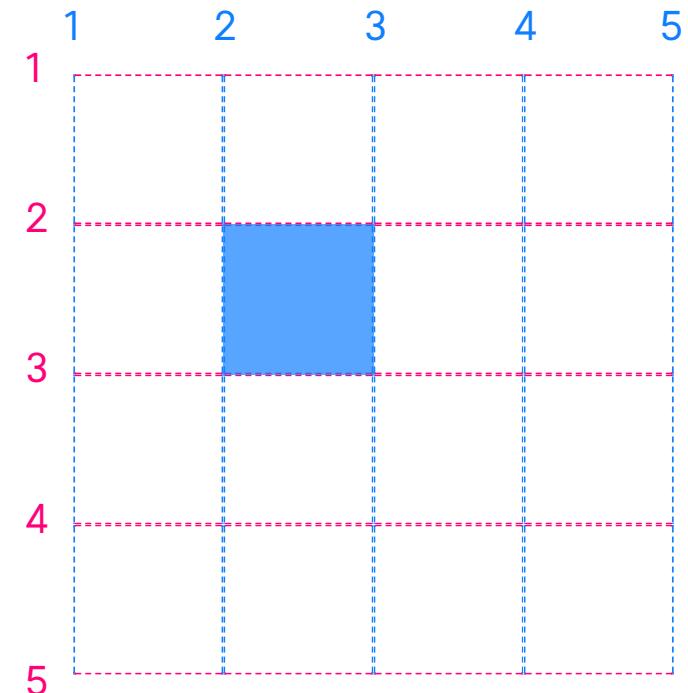
Rows are implicitly inserted if there are more items than cells.



GRID CELL

Or they can be manually placed with:

```
.cell {  
  grid-column-start: 2;  
  grid-column-end: 3;  
  grid-row-start: 2;  
  grid-row-end: 3;  
}
```

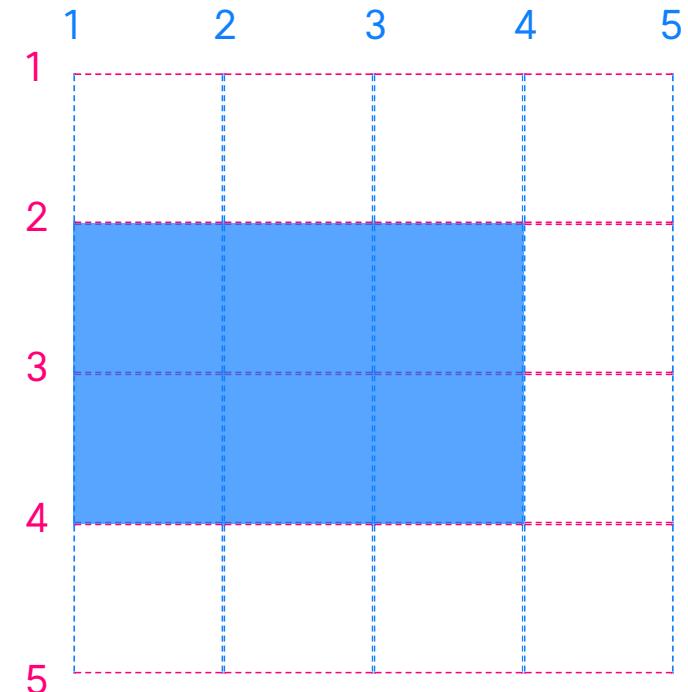


The short forms are `grid-column: 2 / 3;` `grid-row: 2 / 3`

GRID AREA

Rectangular area between
4 grid lines.

```
.area {  
  grid-column: 2 / -2; /*(1)*/  
  grid-row: 2 / span 2; /*(2)*/  
}
```

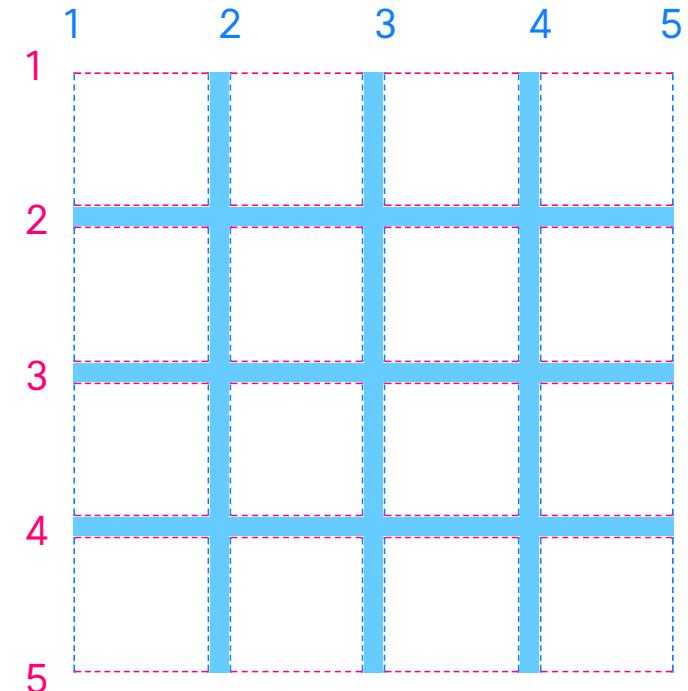


- 1) Minus - count lines from opposite side.
- 2) span the track instead of specific line No.

GRID GAP

Gutters or empty spaces between grid tracks

```
.wrapper {  
  display: grid;  
  grid-template-columns:  
    repeat(4, 1fr);  
  grid-gap: 10px;  
}
```



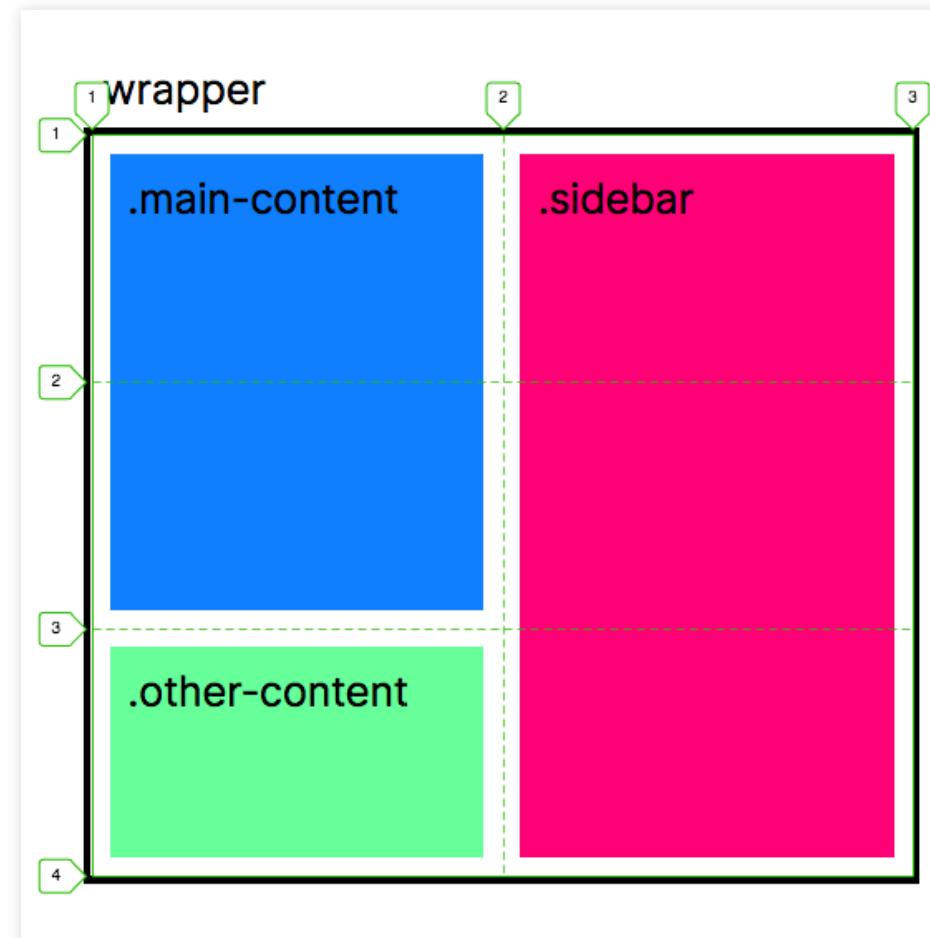
grid-gap is the short form for grid-column-gap & grid-row-gap

LOOKS PROMISING!

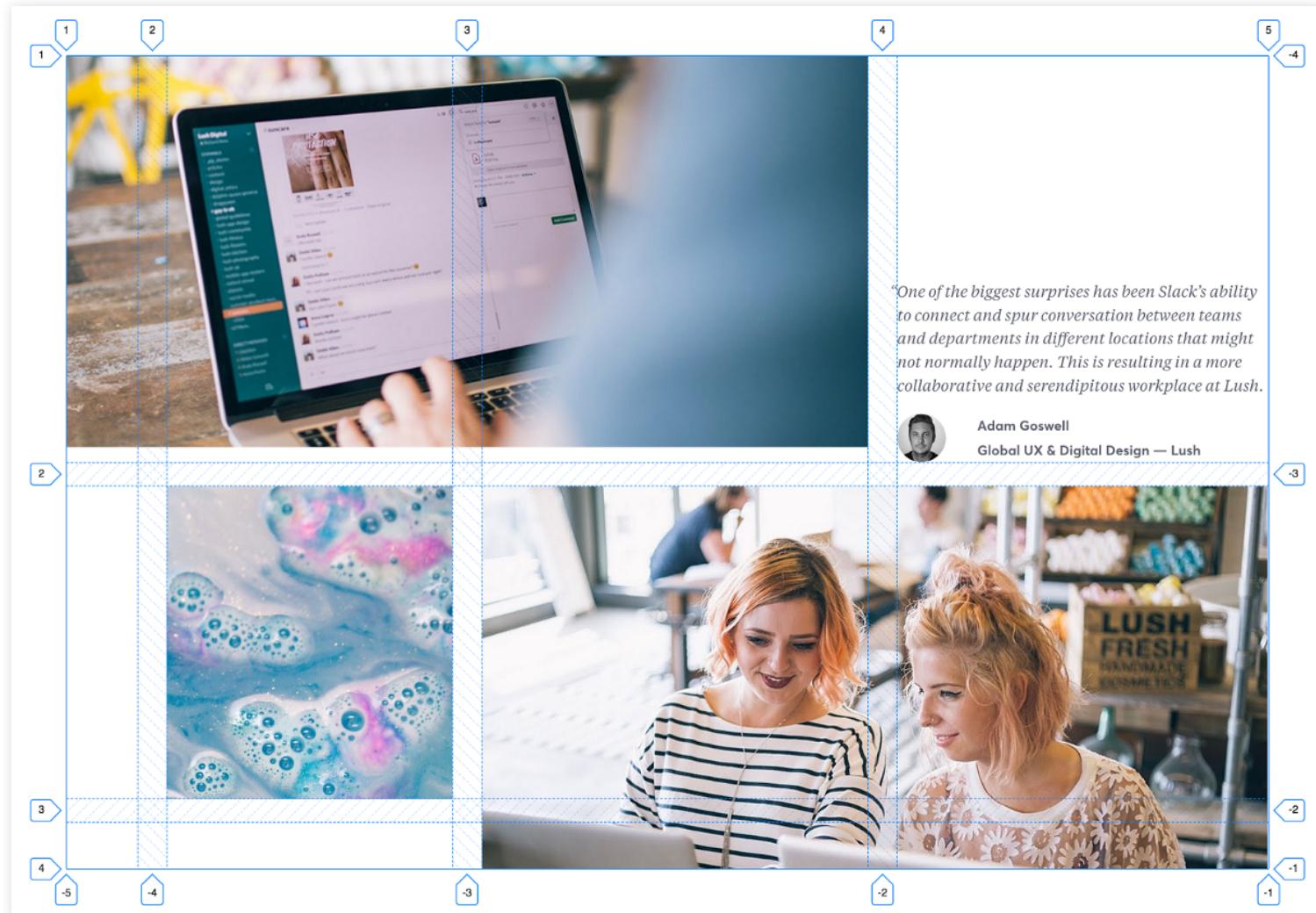
If current methods work though,
what are other benefits of CSS grid?

CSS GRID

- Multi-dimension & layout-in approach
- More intuitive and easier to learn
- No more grid framework and fixed grid system



Simplify HTML markups



From slack.engineering - <https://goo.gl/zJcE8c>

From:

```
<section class="o-section">
  <div class="o-content-container">
    <div class="o-row">
      <div class="col-8">...</div>
      <div class="col-4">...</div>
    </div>
    <div class="o-row">
      <div class="col-1"></div>
      <div class="col-3">...</div>
      <div class="col-8">...</div>
    </div>
  </div>
</section>
```

To:

```
<section class="c-photo-collage
  c-photo-collage--three">
  
  
  <blockquote class="c-quote">
    <p class="c-quote__text">...</p>
  </blockquote>
  
</section>
```

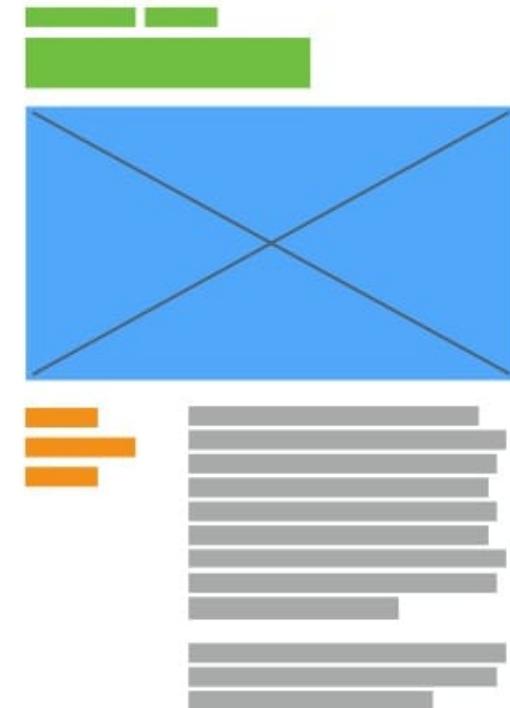
The screenshot shows a news article from the Financial Times. The article is titled "Blockchain Man and Woman will have to wait" by Andrew Hill. The main image is a portrait of a man. The article discusses how companies are not ready for blockchain technology. The page includes a navigation bar with links like Home, Work, UK Companies, Markets, Opinion, Work & Careers, Life & Arts, and a myFT section. Below the article, there's a sidebar with a yellow box for an Inalfa Roof Systems advertisement.

Arjun @adgad · Nov 1
Just shipped the first part of our @FT article CSS grid rewrite 🎉 Gone from ~4 complex HTML templates to one super simple one.

7 20 104

<https://twitter.com/adgad/status/925728861022773248>

New ways to RWD that were not
possible with old methods



Reorder elements in RWD - <https://goo.gl/q8s8ZW>

MOR10
Thinking Out Loud About the Internet

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- Contact

WORDPRESS

THE CASE FOR TELEMETRY IN WORDPRESS

Written by
Morten Rand-Hendriksen
Published
August 10, 2017

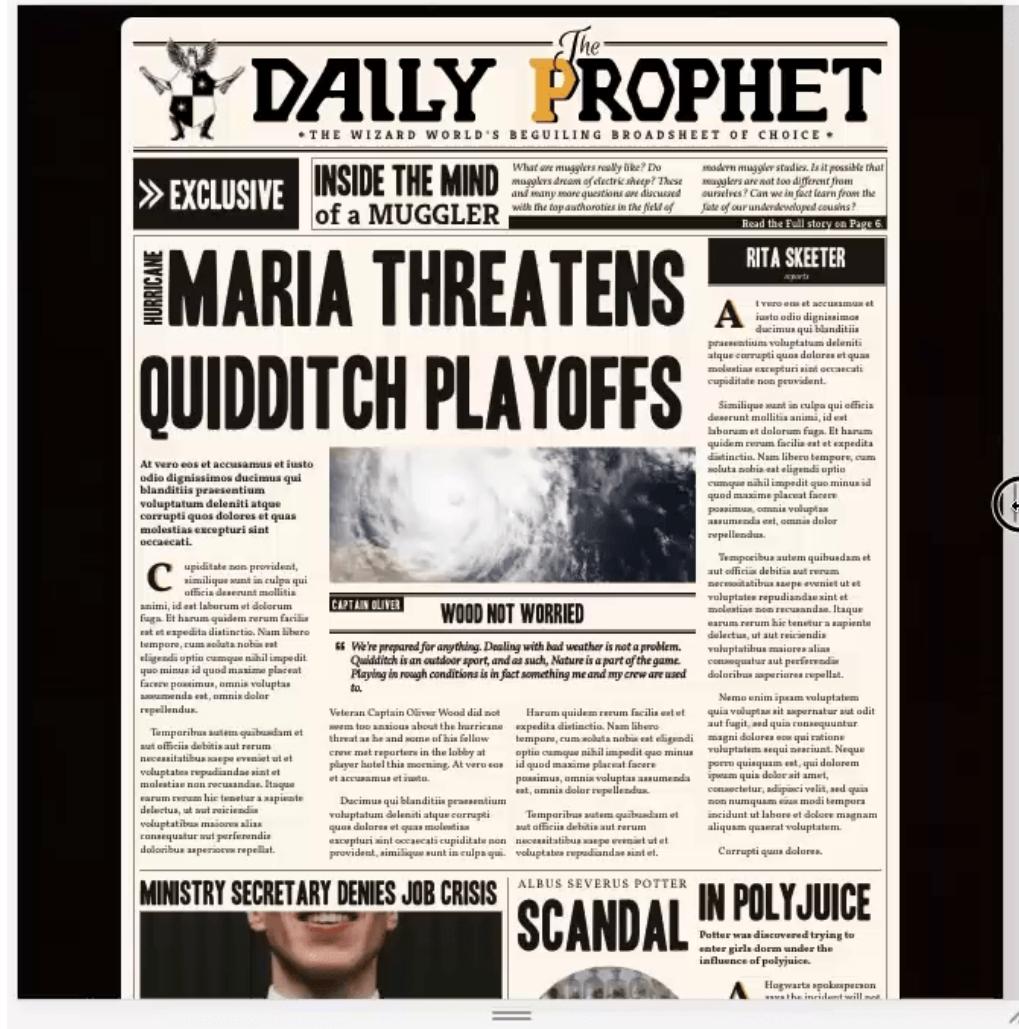
Update August 10, 2017: After publishing this article I reopened the Trac ticket arguing the reason for closing it was no longer valid in lieu of Gutenberg's collection of telemetry. A few hours later it was announced that usage tracking will be removed from Gutenberg and the ticket was closed as the original argument for closing it is once again accurate.

This is an expanded version of a [Twitter thread from earlier today](#).

#WordPress needs a core method for collecting quantitative user data through telemetry (aka "metrics"). I wrote a post about this on my blog back in December 2016 and filed a ticket on the [WordPress development system Trac](#) at the same time. That ticket was promptly closed by project lead Matt Mullenweg arguing "it is off the table for 2017 as it is not within the three focus areas."

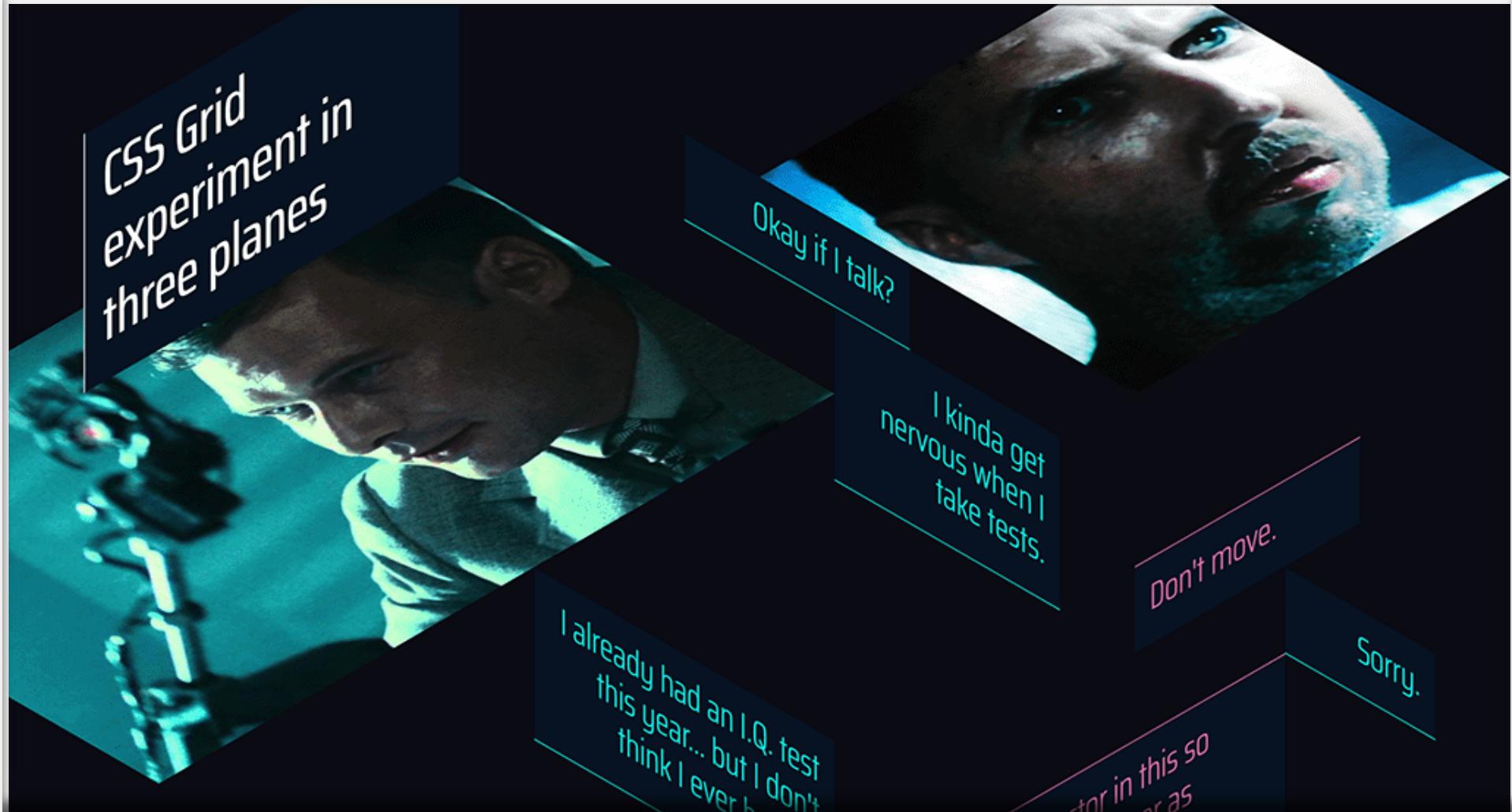
Since then, Gutenberg – the proposed new editor feature for WordPress – has introduced an "opt-in usage tracking system" (telemetry) meaning the argument that telemetry is not

Reorder elements in RWD (contd.)

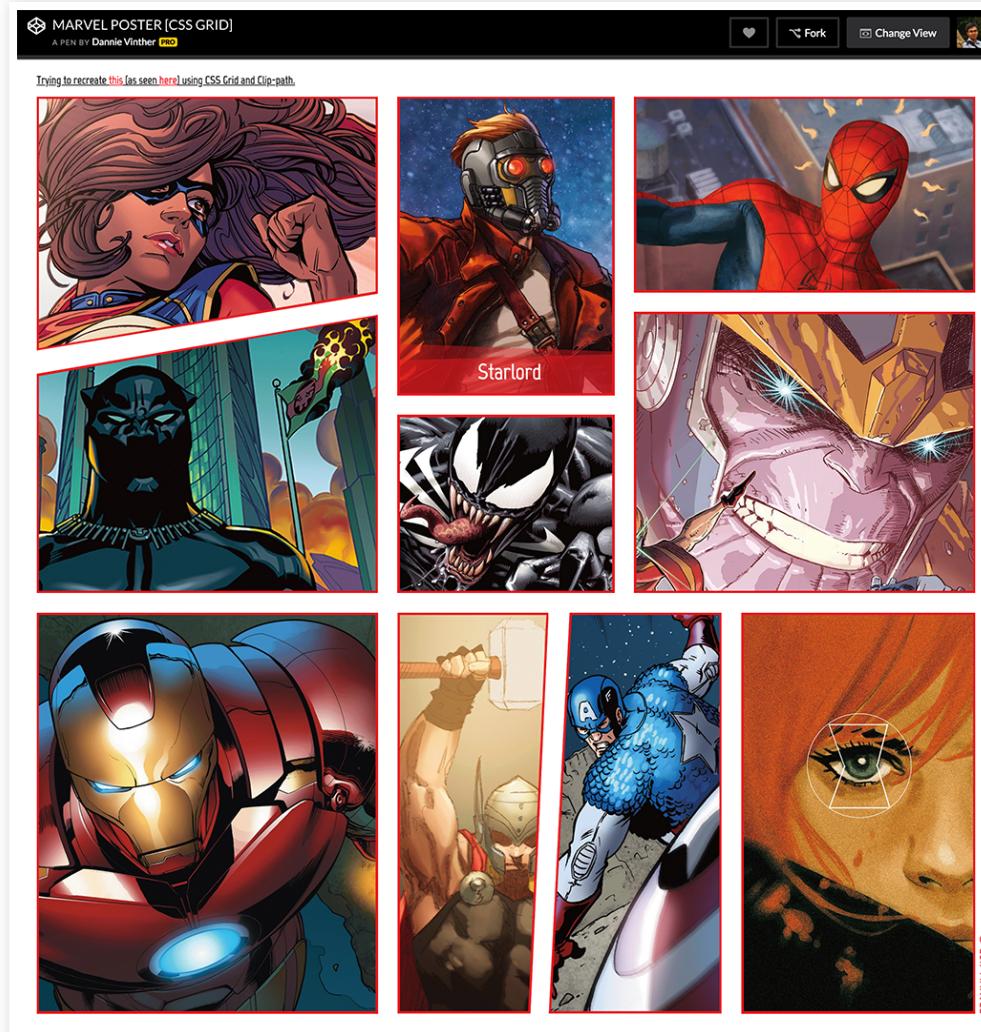


Daily Prophet* - <http://redonion.se/cssgrid>

* Smashing Magazine's CSS Grid Challenge Second Place - <https://goo.gl/UoS4wM>



3 grid containers with skew effect
<https://codepen.io/andybarefoot/full/MERBPx>



CSS Grid with Clip Path
<https://codepen.io/dannievinther/full/EvVggR/>

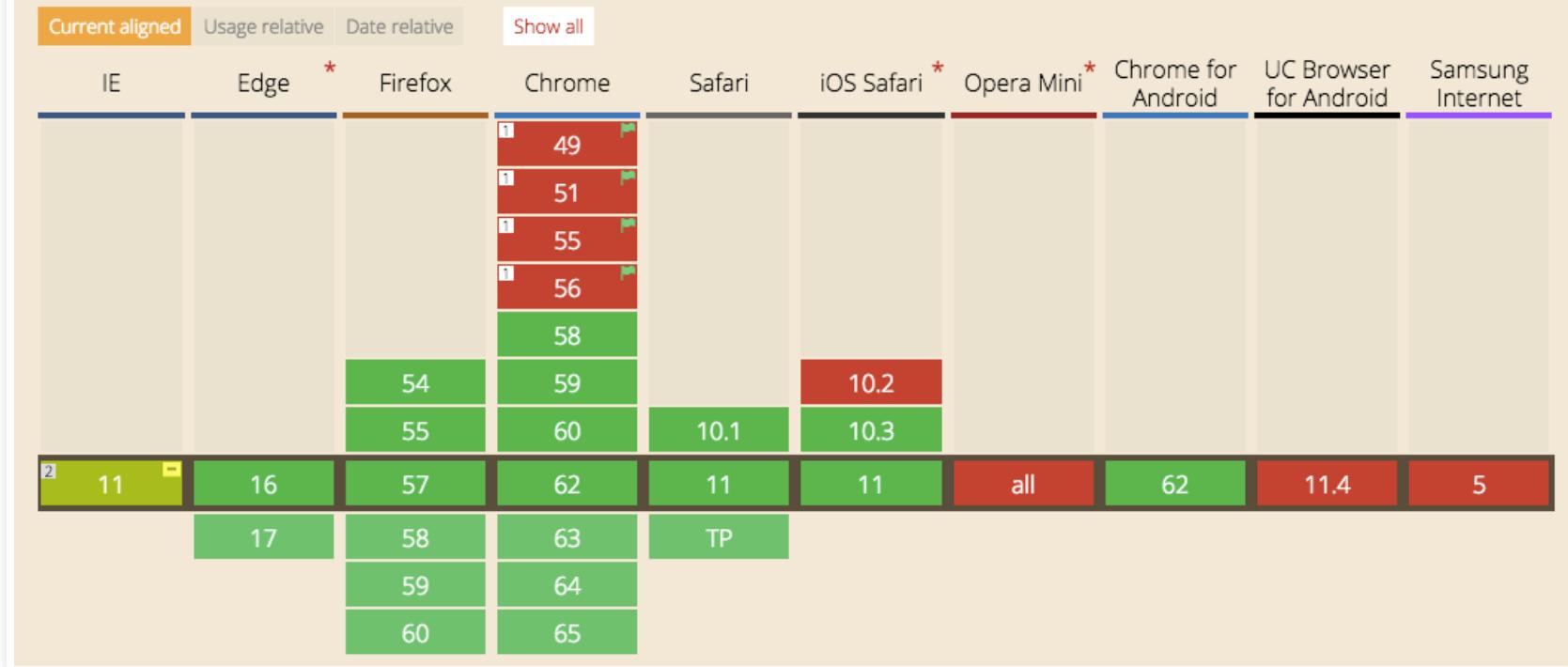
CSS GRID LOOKS AWESOME!

What about browser support?

Can I use it now?

CSS Grid Layout - CR

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors.
Includes support for all `grid-*` properties and the `fr` unit.



IE 10-11 support an older specs of CSS Grid layout



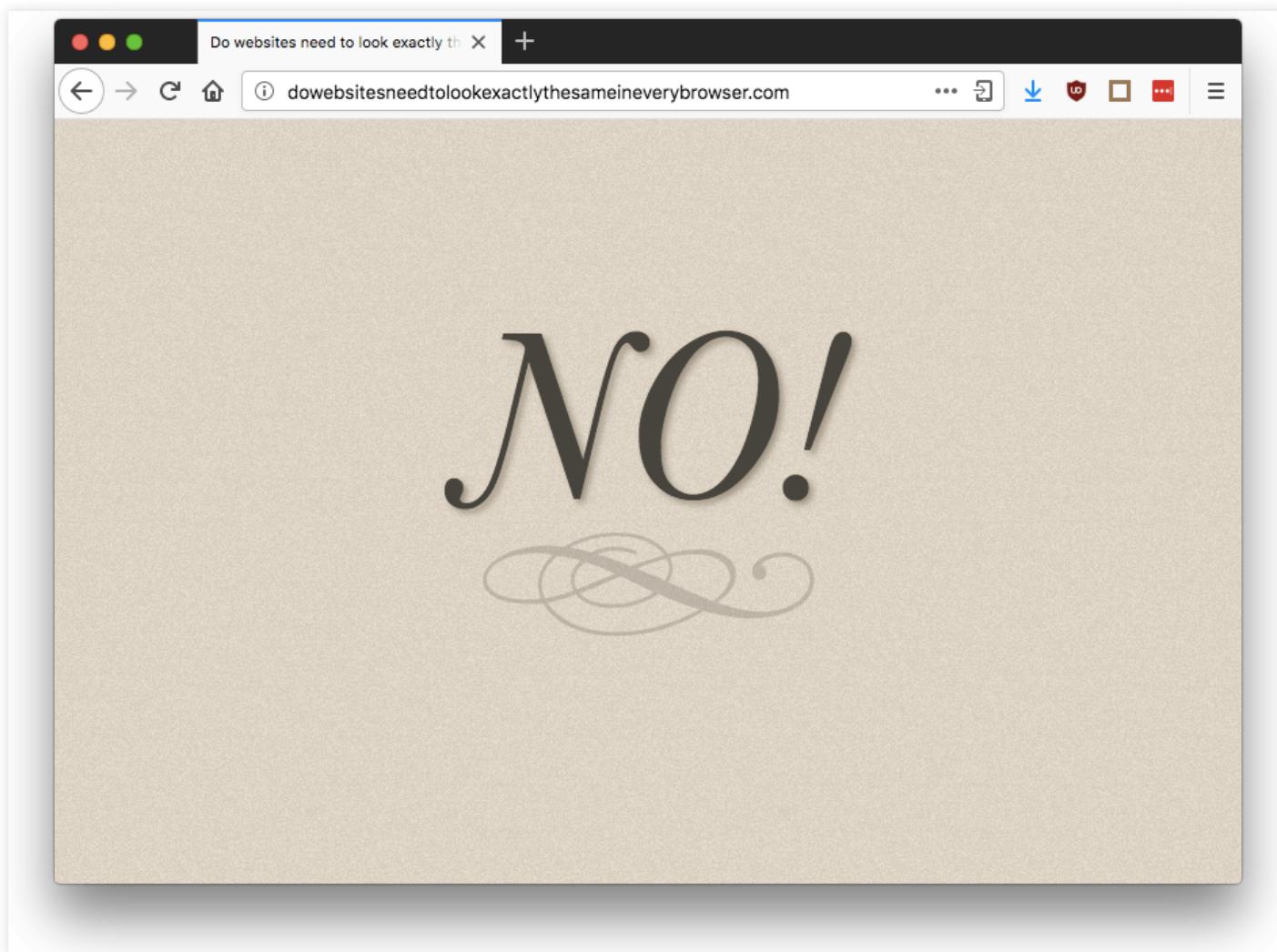
66



CSS Grid supported browsers in Vietnam may reach up to **80-90%**

OK. What about older browsers?*

* Most likely: What about Internet Explorer?



[http://do websites need to look exactly the same in every browser.com](http://dowebsiteneedtolookexactlythesameineverybrowser.com)

- Pixel perfect layout?
- Same cross-browser experience?



<https://flic.kr/p/cfQxzU>

PROGRESSIVE ENHANCEMENT

- ~~Pixel perfect layout?~~
- ~~Same cross-browser experience?~~

HOW?

HOW?

- Start with 1-column mobile-first layout
- Mobile layout will be fall-back for all browsers
- Use CSS `@support` to detect grid support
- Apply CSS grid layout as enhancement to simpler layout method

HOW? (contd.)

When container has `display: grid`. Its children:

- using floats, lose their float behavior
- vertical-align has no effect
- Flex items become grid items
- Block and inline-block become grid items

Example of a 12-column flex fall-back

```
.grid {  
  display: flex;  
  flex-wrap: wrap;  
  margin: 0 20px;  
  display: grid;  
  grid-template-columns: repeat(12, 1fr);  
  grid-gap: 20px;  
}  
  
.grid > * {  
  flex: 1 1 25%; /* 1/4 */  
  margin: 0 20px 20px 20px;  
}
```

SO, LET'S USE CSS GRID TODAY!

THANK YOU!

Questions?

Github, Twitter, Facebook: [@trongthanh](#)