How CSS Grid Changes Everything
(in 15 mins?)

W3C Developer Meetup
@jenSimmons
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Layout on the Web
California State University, Northridge

University Directory

18111 Northholl Street
Northridge, California 91330
(XXX) XXX-XXXX

You have reached the California State University, Northridge campus directory for faculty, staff and department. Fill in the following form to search either the name or department directories. A description of the name and department databases is provided to better understand how the search technique works.

Searching the Email Database is also provided.

University policy does not permit unrestricted distribution of the campus directory for commercial purposes. California State University, Northridge, however, disclaims any responsibility for any uses made of the campus directory resulting from unapproved distribution.

Search Directory: Name, Selection Limit: [10, 1]
All his life, he only wanted to be an artist. From the time when he carried water to the artists who visited the Slovakian Mountains to paint, and throughout his life, Paul Theodore Roch studied art, made art, and loved art at The Paul T. Roch Art Gallery and Museum. Currently being built in the heart of Brown County near Nashville, Indiana, will be permanent home to over 2,500 of Paul's original works spanning over 5 1/2 decades from 193 until his death in 1991.

- Short Biography of Paul T. Roch. Traces his life from Ohio to Slovakia to Texas.
- Where's BROWN COUNTY? The quaint Southern Indiana county where God lives.
- View the GALLERY’S FREE screen savers. Available in 640, 800, or 1024 sizes.
Figure 2.27:
HTML 3.0 alignment options used in tables.

<table>
<thead>
<tr>
<th>Tag or Option</th>
<th>Function</th>
<th>Comments</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALIGN = (right, left, center)</td>
<td>Indicates horizontal alignment.</td>
<td>Can be used as an option in block elements, header, lists, preformatted text, tables, equations, and images. Default alignment is left.</td>
<td>&lt;H2 ALIGN=RIGHT&gt; &lt;PRE ALIGN=CENTRO&gt; &lt;BLOCKQUOTE&gt;</td>
</tr>
</tbody>
</table>
GENERAL SIGNAL Networks

Linking Business to Information

Systems that connect and protect mission critical information... around the world, around the clock.

About GSN  Enter  What's New

This site best viewed with Netscape®
©1997 General Signal Networks, Inc.
WHO IS INACOM?

CONSULTING

INTEGRATION SERVICES

SUPPORT SERVICES

PROCUREMENT

We steer the course from beginning to end. We recommend the best technology solutions, procure products and make sure it integrates with existing systems. We provide full support and complete consulting services. Find out how Inacom's history positions us to lead the way as a provider of IT services.

LOCATIONS FINANCIAL STRENGTH CASE STUDIES PRESS RELEASES QUALITY SYSTEM

Consulting | Integration | Support | Procurement

History | Locations | Financial Strength | Case Studies | Press Releases | Quality System | HOME |
Welcome to Microsoft's World Wide Web Server!

Where do you want to go today?

If your browser doesn't support images, we have a text menu as well.

WWW.MICROSOFT.COM is running Microsoft's Windows NT Server 3.5 and EMWACs HTTPS
CAN GOOGLE FIBER REALLY BRIDGE SAN ANTONIO DIGITAL DIVIDE?

By Mary Lucy
Updated on Dec 17, 2019

In February, Mayor Julián Castro hosted a reception for more than 2,000 business leaders and homeowners interested in the fiber-optic network. The executive team from Google Fiber even made it through five rounds of questioning by council members, and the San Antonio City Council ended up deciding that the city would license Google Fiber.

The city’s move to license Google Fiber has raised questions about the digital divide in San Antonio, which has been identified as being one of the worst in the country.

The city has a plan to close the digital divide, which includes a commitment to provide high-speed internet to everyone in the city. The plan includes a goal to expand the city’s fiber network to more areas, and to provide affordable internet options to residents.

While the city is making progress in reducing the digital divide, many residents are still struggling to access the internet. This is especially true in areas that are not near a major business district.

The city has partnered with several organizations to help bridge the digital divide, including the San Antonio Chamber of Commerce and the San Antonio Technology Council. These organizations have helped to identify areas that are most in need of internet access, and have worked to bring internet service to those areas.

The city is also working with local schools to provide internet access to students who do not have it at home. This includes providing hotspot devices and setting up Wi-Fi spots around the city.

The city’s plan to close the digital divide is a major step forward, but more work needs to be done. The city needs to continue to invest in its fiber network, and to work with local organizations to bring internet access to as many residents as possible.
Harrison Ford broke leg, not ankle, on ‘Star Wars’ set

According to hospital sources, Harrison Ford broke his leg on the set of the new “Star Wars” movie last week, a censorial woman said Thursday, confirming initial reports that the veteran actor sustained his injury.

The 71-year-old actor had surgery on the broken limb after being hurt when a garbage truck hit him and hit him at Pinewood Studios in Buckingham, London last Thursday, according to British emergency services at the time.

In an update a week after the accident, a spokesperson for the production studio said: “Harrison Ford’s left leg was broken in an accident. His surgery was successful and he will begin rehab soon.”

Ford was filming in May on the new episode of the iconic franchise, directed by filmmaker J.J. Abrams.

Original cast members Ford, Carrie Fisher, Mark Hamill, Anthony Daniels, Peter Mayhew and Kenny Baker are in the new film, due for worldwide release on December 18, 2015.

Ford is back as smuggler Han Solo, 65-year-old Hamill will return as Jedi Knight Luke Skywalker and Fisher, 57, reprises the role of Princess Leia.

Disney acquired “Star Trek” and “Mission: Impossible” director Abrams in 2011 in order to create a major sequel to the original trilogy “Star Wars.”

The film’s first two installments, “The Empire Strikes Back” and “Return of the Jedi,” were released in 1980 and 1983, respectively.

Truck driver in Tracy Morgan crash was driving 65 in 45 mph zone: NTSB

The National Transportation Safety Board says that a 35-year-old driver of a tractor-trailer truck was driving at 65 mph in a 45 mph zone when he crashed into Tracy Morgan’s limousine on June 7.

The driver, who was transporting a load of furniture to a home on the outskirts of New Jersey, was charged with driving under the influence of alcohol.

The crash left Morgan with severe injuries, including a broken leg, and forced him to cancel his upcoming tour.

According to the NTSB, the driver was not wearing a seatbelt and was using a cell phone at the time of the accident.

The NTSB also said that the driver had been involved in a traffic accident in December 2013, and that he had been convicted of driving under the influence of alcohol in 2014.

The agency recommended that states increase their enforcement of speed limits and that trucking companies improve their training programs for drivers.

“Truck drivers have a responsibility to drive safely and take responsibility for their actions,” NTSB chair Christopher Hart said.

The accident occurred at around 2:00 a.m. on June 7 in an industrial area of Bridgeport, Connecticut, and the driver was not seriously injured.

The NTSB is conducting an investigation into the accident, which happened on U.S. Route 7 near the city’s airport.

Morgan, 45, was airlifted to a hospital after the crash and has since undergone multiple surgeries.

He and his team have canceled all upcoming tour dates until further notice.

Morgan’s publicist told CNN that the actor is in stable condition and is undergoing physical therapy.

The driver of the truck, identified as a 35-year-old man, was charged with driving under the influence of alcohol and driving a motor vehicle while using a cell phone.

The driver was also cited for speeding, driving under the influence of alcohol and driving with an open container of alcohol in the vehicle.

The crash occurred on Route 3 in New Haven, Connecticut, and the driver was not seriously injured.

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About Grace Community Church

In 2010 Grace Community Church started with just a handful of people, a small place to meet and a dream to form a church that was fresh, new, powerful and relevant.

God was faithful and the church began to grow — eventually, so growing to a previous facility. Pastor Chip and the other leadership members decided to relocate to Lakewood Ranch — where Grace has continued to grow, going from 1 to 3 Weekend Services.

Grace Community Church is a non-denominational church that centers on having a real and vital relationship with Jesus Christ. It's a fun, real, non-traditional, life changing, authentic kind of church that, in relation to the entire Sarasota, then Grace Community Church might just be the place for you.

About Our Pastor

Dr. Chip Bennett serves as the Founding Senior Pastor of Grace Community Church. Chip is a very bright, talented, young man, being an accomplished Pastor and successful businessman throughout his life.

Chip is also a pastor at two other locations along with his wife Lillian. This unique relational experience gave him a very unique ability when it comes to preaching and teaching. You will hear the latter in a very new and refreshing way as Chip uses popular application, literary understanding and the imagination of Christ in his weekly messages.

Chip and his wife Lillian have a wonderful family. Their hobbies include reading, electric guitar and being an ally for local businesses.

Grace Community Church

6832 Potters Rd, Suite E
Lakewood Ranch, FL 34202
(941) 305-6134
grace@gracefl.org

Upcoming Events

Saturday Night Service
6th FEB

Sunday Service
9th FEB 11:00 AM

All 4 Ever Youth Ministry
Wednesday at 7 PM

Contact

grace@gracefl.org
(941) 305-6134
Katie Ledecky Sets 800-Meter Freestyle World Record at 2015 World Championships

American swimmer Katie Ledecky is having quite a week at the 2015 World Championships. The 18-year-old set another world record in the 800-meter freestyle race on Saturday.

Ledecky, who has broken three world records already this week, won the race in a time of 17:82.

Out of Bounds

This is the second time in two years Ledecky has set a world record, following her 16:48 in the 1,500-meter freestyle race on Wednesday.

In the process of setting the record, Ledecky became the first swimmer in any event to set a world record in two consecutive World Championships.

Ledecky previously won the 1,500-meter freestyle and set a world record in that event, breaking the record set by Raina Wang of China.

Follow Us on Facebook

USA Swimming Live

Another World Record for Katie Ledecky at the 2015 World Championships...
BluCSS

Your best buddy when it comes to creating responsive layouts.

What is BluCSS?
BluCSS is a CSS framework designed with ease of use and simplicity in mind. It is specifically made so that when you're working on your next project, you don't need to worry about the essentials. With BluCSS, you can be up and running in less than an hour.

Responsive Layout
BluCSS is also extremely responsive. It has 4 distinct stages: desktop, laptop, tablet, and mobile. Resize your browser to see it in action.

Built-in Styles

Columns and Containers
BluCSS has a main container of pages by default, but you can change this to whatever you want—the columns will resize to fit into the container. There are 4 columns in BluCSS, and each has a width specified in percentages. Because of this, they resize automatically to fit into their parent container. In this way, you won't need to rewire just to using the built-in "container" div. You can create smaller containers, and BluCSS handles them with no changes whatsoever.

Responsive Images
BluCSS has responsive image functionality. Just apply an "img," class to an image, same as any other element, and the image will

Less Framework 4

A responsive CSS grid system for designing adaptive websites. It contains 4 layouts and 3 sets of typograph/sizes, all based on a single grid.

What It Is

Less Framework is a CSS grid system for designing adaptive websites. It contains 4 layouts and 3 sets of typography/sizes, all based on a single grid.

Responsive Grid System

Simple CSS framework for fast, intuitive development of responsive websites. Built using the "resolution-first" approach, "resolution" for choosing fonts, line-heights, border-widths for adding additional padding to elements, weighting less than no compressed. Responsive design isn't hard, you've just never used responsive.

Download 12 Column
Download 16 Column
Download 24 Column

12 COLUMN GRID
The 12-column grid is probably the most popular because its lower columns keep it flexible. It is divisible by 2, 3, 4, and 5, which is usually suitable for just about any project.

16 COLUMN GRID
The 16-column grid is only divisible by 2, 4, 5, 8, and 10 making it the least flexible of the three. It's divisible by 2, 4, 5, 8, and 10 making it the least suitable for just about any project.

24 COLUMN GRID
The 24-column grid is the most flexible of the three. It's divisible by 2, 3, 4, and 5 making it the most suitable for just about any project.

MARKING IT UP

Add a class to your page wrapper to center it to the browser window and set the width of the page.

HOW IT WORKS

Add this class to any element that spans the entire width of your container to clear any floating child elements. It also allows you to define spacing between items.

Download your Gridpak
Bootstrap, from Twitter

Bootstrap is a toolkit from Twitter designed to kickstart development of webapps and sites. It includes base CSS and HTML for typography, forms, buttons, tables, grids, navigation, and more.

Nerd alert: Bootstrap is built with Less and was designed to work out of the gate with modern browsers in mind.

About Bootstrap

Brief history, browser support, and more

History

Engineers at Twitter have historically used almost any library they were familiar with to meet front-end requirements. Bootstrap began as an answer to the challenges that presented. With the help of many awesome folks, Bootstrap has grown significantly.

Read more on dev.twitter.com

Browser support

Bootstrap is tested and supported in major modern browsers like Chrome, Safari, Internet Explorer, and Firefox.

What's included

Bootstrap comes complete with compiled CSS, uncompiled, and example templates.

- Now in 1.3 Javascript plugins
- All original Less files
- Fully compiled and minified CSS
- Complete styleguide documentation
- Three example pages with different layouts
What is Pied Piper?

The Pied Piper platform is finally HERE, so climb on up and join us! Scroll down to see how the music of our ‘compression flute’ will tootle away the rats of file storage dilemmas, video buffering marathons, and endless download times!
The Official Timeline of Web Page Layout

The No-Layout Layout

Table-based Layouts

Hand-coded Float Layouts

Framework Layouts

Amazing Future!
<table>
<thead>
<tr>
<th>CSS Grid</th>
<th>Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexbox</td>
<td>Floats</td>
</tr>
<tr>
<td>Alignment</td>
<td>Block</td>
</tr>
<tr>
<td>Writing Modes</td>
<td>Inline</td>
</tr>
<tr>
<td>Multicolumn</td>
<td>Inline-block</td>
</tr>
<tr>
<td>Viewport Units</td>
<td>Display:table</td>
</tr>
<tr>
<td>Transforms</td>
<td>Margin</td>
</tr>
<tr>
<td>Object Fit</td>
<td>Negative margins</td>
</tr>
<tr>
<td>Clip-path</td>
<td>Padding</td>
</tr>
<tr>
<td>Masking</td>
<td>everything else</td>
</tr>
<tr>
<td>Shape-outside</td>
<td>in CSS</td>
</tr>
<tr>
<td>Initial-letter</td>
<td></td>
</tr>
</tbody>
</table>
This new CSS changes everything in web layout.
JAZZ AT LINCOLN CENTER
SPRING 2007

Ballop nurses
Celebrating the best of Dizzy Gillespie and Charlie Parker
January 25-30, 8 pm

Jazz and Art
The Jazz at Lincoln Center Orchestra with Wynton Marsalis & special guest Mark O'Connor
February 13-14, 8 pm

Dr. Michael White Quartet
With drummer Dr. Michael White, baritone player Seva Vernik, trombonist Gregg Stafford, and bassist Vince Gombrich
March 13, 7:30 pm

New York Youth Symphony: Dedicated to Art
with special guest Jon Faddis
March 14, 8 pm

Sine Fago
With vocalists Stone Fago, pianist Jacob Chastain, and drummer Jeff Berlin and special guest Johanan Weinberger
March 15, 8:30 pm

Late Night Sessions: Evan Sherman Ensembles
Tuesday-Saturday evenings, doors open at 11:30 pm
March 11, 11:30 pm

An Evening with Audrey Skilar
With Janae Audrey School, Musical Director/arranger Ted Poley, banjo Tom Talbott, and drummer Matt Bacon
March 16, 8:30 pm

New York City Opera
GET TICKETS WHILE THEY LAST!
THE EXPERIMENTAL LAYOUT LAB

OF JEN SIMMONS

Includes examples for revolutionizing your page layout, real art direction, and progressions in modern layouts.

Follow @jenSimmons on Twitter for more as it happens.

Sign up for LAYOUT LAND: a place for us to show off new ideas for layout.

WORKSHOP EXAMPLES
Grid makes it much easier to implement the same old layouts.
Grid makes it possible to do layouts that were not possible before.
Nature of CSS Grid
explicit vs. implicit
You define
the size and/or
number of rows
and/or
columns

Let the browser
define number or
size of rows
or columns
Place each item into a specific cell or area

Let the browser place each item using auto-placement algorithm
Rows *and* Columns
ROWS!!!!!!!!!!!!!
Tracks don’t have to all be the same size.
Content sized by the size of a track.
Tracks sized by the size of content.
fixed portion of available space — 2 parts
portion of available space — 1 part
set by content size
Grid Code
body {
    display: grid;
}
body {
  display: grid;
}

main {
  display: subgrid;
}

article {
  display: subgrid;
}
```html
body {
    display: grid;
}

article {
    display: grid;
}
```
Headline Here
This is teaser text. It comes in different lengths.

Headline Here
This is teaser text. It comes in different lengths. Here we see more content filling the box up all the way.

This Headline
This is teaser text. It comes in different lengths.

Headline
This is teaser text.

Headline That is Longer & Wraps
This is teaser text. It comes in different lengths.
Headline Here
This is teaser text. It comes in different lengths.

Headline Here
This is teaser text. It comes in different lengths. Here we see more content filling the box up all the way.

Headline
This is teaser text.

This Headline
This is teaser text. It comes in different lengths.

Headline

Headline That is Longer & Wraps
This is teaser text. It comes in different lengths.
Container

Item  Item  Item
Terminology
4 Examples
fixed

variations on a grid
<ul>
<li><img src="/file1.jpg" /></li>
<li><img src="/file2.jpg" /></li>
<li><img src="/file3.jpg" /></li>
<li><img src="/file4.jpg" /></li>
<li><img src="/file5.jpg" /></li>
<li><img src="/file6.jpg" /></li>
<li><img src="/file7.jpg" /></li>
</ul>
ul {
    display: grid;
    grid-template-columns: repeat(4, 100px);
    grid-gap: 4px;
}

li {
    // nothing
}
ul {
  display: grid;
  grid-template-columns: repeat(4, 100px);
  grid-gap: 4px;
}

li {
  // nothing
}
ul {
    display: grid;
    grid-template-columns: repeat(4, 100px);
    grid-gap: 4px;
}

/* or */

ul {
    display: grid;
    grid-template-columns: 100px 100px 100px 100px;
    grid-gap: 4px;
}
fluid

variations on a grid
ul {
  display: grid;
  grid-template-columns: repeat(5, 1fr);
  grid-gap: 0.25em;
}

/* or */

ul {
  display: grid;
  grid-template-columns: 1fr 1fr 1fr 1fr 1fr;
  grid-gap: 0.25em;
}
responsive
ul {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(120px, 1fr));
    grid-gap: 0.25rem;
}
explicitly placed
explicitly placed

variations on a grid
nightly.mozilla.org
ul {
  display: grid;
  grid-template-columns:
    repeat(4, 1fr);
}
li:nth-child(1) {
  grid-column: 2 / 3;
  grid-row: 1 / 2;
}

explicitly placed
li:nth-child(1) {
  grid-column: 2 / 3;
  grid-row: 1 / 2;
}
li:nth-child(2) {
  grid-column: 4 / 5;
  grid-row: 2 / 3;
}
li:nth-child(3) {
  grid-column: 3 / 4;
  grid-row: 3 / 4;
}
li:nth-child(4) {...
li:nth-child(5) {...}
fr" unit
some other syntax options (each with different results)

grid-template-columns: 1fr 5fr 2.5fr;
grid-template-columns: 8em 1fr 300px;
grid-template-columns: 1fr 1fr 2fr 3fr 5fr 8fr 13fr 21fr 34fr;
grid-template-columns: repeat(7, 1fr);
grid-template-columns: repeat(3, 200px 1fr 25%);
grid-template-columns: repeat(auto-fill, 10rem);
grid-template-columns: repeat(auto-fit, minmax(200px, 1fr));
grid-template-columns: 4rem 2fr repeat(5, 1fr) 300px;
px  pixels  60px
em (or rem)  10em
%  percents  20%
min-content
max-content
fr
minmax()
fr unit = "fraction"
\[
\frac{100\% - 4\%}{3} = \frac{96\%}{3} = 32\% 
\]
100% - 6% = 94% = 31.333%
\[
\frac{100\% - 5\%}{3} = \frac{95\%}{3} = 31.666666666666666\%
\]
1fr + 1fr + 1fr = 3fr total
therefore, 1fr = 1/3 of the space
1fr + 1fr + 1fr + 1fr = 4fr total

therefore, now 1fr = 1/4 of the space
What about old browsers?
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.

<table>
<thead>
<tr>
<th>Current aligned</th>
<th>Usage relative</th>
<th>Date relative</th>
<th>Show all</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE</td>
<td>Edge</td>
<td>Firefox</td>
<td>Chrome</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
<td>52</td>
<td>61</td>
</tr>
</tbody>
</table>

Notes

1. Enabled in Chrome through the "experimental Web Platform features" flag in chrome://flags
2. Partial support in IE refers to supporting an older version of the specification.
3. There are some bugs with overflow (1356820, 1348857, 1350925)
<table>
<thead>
<tr>
<th>Notes</th>
<th>Known issues (2)</th>
<th>Resources (13)</th>
<th>Feedback</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Enabled in Chrome through the &quot;experimental Web Platform features&quot; flag in chrome://flags.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Partial support in IE refers to supporting an older version of the specification.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CSS Grid Layout

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.
You must support browsers that do not understand CSS Grid.
@supports (foo: value) {
    // some CSS code here
}

// code for non-Grid browsers

@supports (display: grid) {
    // undo some of the above
    // then do your Grid layout
}
Using Feature Queries in CSS

By Jen Simmons

There's a tool in CSS that you might not have heard of yet. It's powerful. It's been there for a while. And it'll likely become one of your favorite new things about CSS.

Behold, the $supports rule. Also known as Feature Queries.

With $supports, you can write a small test in your CSS to see whether or not a particular "feature" (CSS property or value) is supported, and apply a block of code (or not) based on the answer. Like this:

```css
$supports (display: grid) {
  // code that will only run if CSS Grid is supported by the browser
}
```

If the browser understands `display: grid`, then all of the styling inside the
You have two choices for Internet Explorer (& old Edge):

1) Leverage the 2012 Grid implementation.

2) Pretend IE has no Grid.
You have two choices for Internet Explorer (& old Edge):

1) Use old -ms-* syntax.
2) Or don’t.
display: grid;
grid-template-columns: repeat(4, 100px);
display: -ms-grid;
-ms-grid-columns: (100px)[4];
Autoprefixer
<table>
<thead>
<tr>
<th>CR Level 1 Property</th>
<th>IE:10 Implementation</th>
<th>Autoprefixer</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>grid-template-columns</td>
<td>-ms-grid-columns</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>grid-template-rows</td>
<td>-ms-grid-rows</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>grid-template-areas</td>
<td>-</td>
<td>No</td>
<td>Shorthand</td>
</tr>
<tr>
<td>grid-template</td>
<td>-</td>
<td>No</td>
<td>Shorthand</td>
</tr>
<tr>
<td>grid-auto-columns</td>
<td>-</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>grid-auto-rows</td>
<td>-</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>grid-auto-flow</td>
<td>-</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>grid</td>
<td>-</td>
<td>No</td>
<td>Shorthand</td>
</tr>
<tr>
<td>grid-row-start</td>
<td>-ms-grid-row</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>grid-column-start</td>
<td>-ms-grid-column</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>grid-row-end</td>
<td>-</td>
<td>No</td>
<td>Defined by the -ms-grid-row-span property</td>
</tr>
<tr>
<td>grid-column-end</td>
<td>-</td>
<td>No</td>
<td>Defined by the -ms-grid-column-span property</td>
</tr>
<tr>
<td>grid-row</td>
<td>-</td>
<td>Yes (only for start value)</td>
<td>Shorthand for setting start and end values together</td>
</tr>
<tr>
<td>grid-column</td>
<td>-</td>
<td>Yes (only for start value)</td>
<td>Shorthand for setting start and end values together</td>
</tr>
<tr>
<td>grid-area</td>
<td>-</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>grid-row-gap</td>
<td>-</td>
<td>No</td>
<td>Gap properties can be faked by using a regular track.</td>
</tr>
<tr>
<td>grid-column-gap</td>
<td>-</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>grid-gap</td>
<td>-</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>-</td>
<td>-ms-grid-column-span</td>
<td>Yes</td>
<td>Not required due to changes to spec</td>
</tr>
<tr>
<td>-</td>
<td>-ms-grid-row-span</td>
<td>No</td>
<td>Not required due to changes to spec</td>
</tr>
<tr>
<td>align-self</td>
<td>-ms-grid-column-align</td>
<td>Yes</td>
<td>Now part of Box Alignment</td>
</tr>
<tr>
<td>justify-self</td>
<td>-ms-grid-row-align</td>
<td>No</td>
<td>Now part of Box Alignment</td>
</tr>
</tbody>
</table>
Should I try to use the IE implementation of CSS Grid Layout?

This blog post started life as an answer to a question posted over at my CSS Grid AMA. This original question being,

“With Blink and Gecko implementations shipping early 2017, with WebKit implementation probably shipping in the fall 2017, it seems the 4 major web engines will support grids. Is the 2011 Internet Explorer implementation supporting the same feature set? And will it be possible to just convert the 2016 syntax into 2011 syntax with something like Autoprefixer?”

A very good question, and one with a less than straightforward answer. As always, it depends. Here is why.

THE IE10 IMPLEMENTATION

The Grid implementation that is in IE10, IE11 and current Edge is an implementation based on the 2011 specification for CSS Grid Layout. This

rachelandrew.co.uk/archives/2016/11/26/should-i-try-to-use-the-ie-implementation-of-css-grid-layout
JAZZ AT LINCOLN CENTER
SPRING 2017

Bebop Lives!
Celebrating the best of Dizzy Gillespie and Charlie Parker.
January 26-27, 8pm

Dr. Michael White Quartet
With clarinetist Dr. Michael White, banjo player Seva Venet, trumpeter Gregg Stafford, and bassist Vince Giordano
March 19, 7:30pm

Jazz and Art
The Jazz at Lincoln Center Orchestra with Wynton Marsalis & special guest Mark O'Connor
February 23-24, 8pm

New York Youth Symphony:
Sinna Egg
Jazz at Lincoln Center

Spring 2017

Schedule of Events

- Bebop Lives!
  Celebrating the best of Dizzy Gillespie and Charlie Parker
  January 26–27, 8pm

- Jazz and Art
  The Jazz at Lincoln Center Orchestra with Wynton Marsalis & special guest Mark O'Connor
  February 22–24, 8pm

- Dr. Michael White Quartet
  With: Dr. Michael White, bass, 2, Yusef Jackson, sax, 2 & Sharmaine Clifton, drums
JAZZ AT LINCOLN CENTER
SPRING 2007

Bebop Lives!
Celebrating the best of Dizzy Gillespie and Charlie Parker
January 26–27, 8pm

Jazz and Art:
The Jazz at Lincoln Center Orchestra with Wynton Marsalis & special guest
Mark O’Connor
February 22–24, 8pm

Dr. Michael White Quartet:
With clarinetist Dr. Michael White, banjo player Steve Vera, trumpeter Gregg Stafford, and bassist Vince Giordano
March 13, 7:30pm

New York Youth Symphony:
Dedicated to Dizzy with special guest Jon Faddis
March 14, 8pm

Sista Egg
With vocalist Sista Egg, pianist Jacob Christiansen, drummer Clarence Penn, and bassist Johnes Widgren
March 15, 2:30pm

Late Night Session:
Evan Sherman Ensamblage
Tuesday-Saturday evenings, doors open at 11:15pm for Late Night Sessions.
March 15, 11:15pm

An Evening with Audrey Shakir:
With vocalist Audrey Shakir, Musical Director/pianist Ted Howe, bassist Tom Kennedy, and drummer Matt Smooke
March 16, 8pm

New York City Opera Concerts:
The New York City Opera Concert Series launches with the world premiere of David Herbert’s “Sunday Morning”.
March 16, 9pm

Evan Sherman Big Band:
Tuesday-Saturday evenings, doors open at 11:15pm for Late Night Sessions featuring some of the most talented emerging artists in jazz
March 17-22, 11:15pm

Aaron Doko’s The Real Deal
Pianist Aaron Doko, known locally as “The Real Deal” in jazz circles, has been a Jazz at Lincoln Center favorite since he was named “Outstanding Pianist”.
March 18, 7:30pm

Walter Banding’s Fantasy in Blue
With saxophonist Walter Banding, trumpeter Freddie Hendrix, pianist Emmett Cohen, bassist Yasushi Nakamura, and drummer Ulysses Owens, Jr.
March 18, 8pm

GET TICKETS WHILE THEY LAST!

This would be best if it were information, but this is a late poster. I see a flaw and it’s a mess up so I can do a demonstration of what website technology.
JAZZ AT LINCOLN CENTER
SPRING 2017

Dr. Michael White Quartet
With clarinetist Dr. Michael White, banjo player Sera Vernela, trumpeter Gregg Stafford, and bassist Vince Giordano
March 13, 7:30pm

New York Youth Symphony:
Dedicated to Diz with special guest Art Hodes
March 14, 8pm

Sinne Eeg
With vocalist Sinne Eeg, pianist Jacob Christoffersen, drummer Christine Penn, and bassist Johannes Weicelmayr
March 15, 2:30pm

Late Night Session: Evan Sherman
Embarcadero
Tuesday-Saturday evenings, doors open at 11:15pm for Late Night Sessions.
March 15, 11:45pm

New York City

Jazz and Art
The Jazz at Lincoln Center Orchestra with Wynton Marsalis & special guest Mark O'Connor
February 22-24, 8pm

An Evening with Audrey Shaicr
With vocalist Audrey Shaicr, Musical Director/Arranger Ted Horne, bassist Ted Kennedy, and drummer Matt Skurch
March 16, 8pm

Jazz and Art
This would be box office information, but this is a fake poster.
// Basic layout for non-Grid supporting browsers

li {
    width: 150px;
    float: left;
    margin: 10px;
}
.ticketinfo {
    width: 320px;
    float: left;
    margin: 10px;
    margin-bottom: 100px;
}

@s supports (display:grid) {
    // undo the basic layout for non-Grid-supporting browsers
    li {
        width: auto;
        margin: 0;
    }
}

// Ok, lets go Grid!
@media (min-width: 680px) { /* autoprefixer: off */
    main { /* autoprefixer: off */
        display: grid;
        grid-template-columns: repeat(5, 16vw);
        grid-template-rows: repeat(12, 16vw);
        grid-gap: 2vw;
    }
    .logo {
        grid-row: -1 / -2;
        img {
            width: 16vw;
        }
        align-self: end;
    }
    header {
        grid-column: 1 / 3;
        grid-row: 2 / 3;
        align-self: center;
    }
}
For more...
Learn CSS Grid

by Jen Simmons
February 27, 2017

People are starting to ask: where can I learn about CSS Grid?

There are a lot of fantastic resources out there. When it comes to the technical how-to, most of what's out there was written by Rachel Andrew. If you don't know her work, take some time to get to know her and follow her.

So here are the links to resources I recommend. I will keep updating this list:

• Rachel built a website full of examples, that walk you through what Grid can do: gridbyexample.com/examples
• She also created a series of free screencast tutorials that show off Grid: gridbyexample.com/video
• She has started a gallery of common layouts you might want to use: gridbyexample.com/patterns
• Rachel also put together a polished course on all the CSS you need to know to hand-code layout: https://theissworkshop.com It comes in two parts. You can buy access to Part 1, Part 2 (which includes Grid), or both. (If you are able, paying to access these videos is a great way to support all this work Rachel is doing for free. Also, you’ll fill in any gaps in your overall knowledge of layout.)
CSS Grid Layout

CSS Grid Layout brings a two-dimensional layout tool to the web, with the ability to lay out items in rows and columns. CSS Grid can be used to achieve many different layouts. It excels at dividing a page into major regions, or defining the relationship in terms of size, position, and layer, between parts of a control built from HTML primitives.

Like tables, grid layout enables an author to align elements into columns and rows. However, unlike tables, grid layout doesn't have content structure, therefore enabling a wide variety of layouts not possible in tables. For example, a grid container's child elements could position themselves so they actually overlap and layer, similar to CSS positioned elements.

Basic example

The following example shows a three-column track grid with new rows created at a minimum of 100 pixels and a maximum of auto. Items have been placed onto the grid using a line-based placement.

```
<template>
  <div class="wrapper">
    <div class="one">One</div>
    <div class="two">Two</div>
    <div class="three">Three</div>
    <div class="four">Four</div>
  </div>
</template>
```
Modern Layouts: Getting Out of Our Ruts

Revolutionize Your Page: Real Art Direction on the Web

available on jensimmons.com
Thanks!

jensimmons.com
@jensimmons
layout.land
labs.jensimmons.com