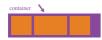
Background

Basics & Terminology



Properties for the Parent

(flex container)



flex-direction





- row (default) left to right in ltr ; right to left in rtl
 row-reverse : right to left in ltr ; left to right in rtl
 column : same as row but top to bottom
 column -reverse : same as row-reverse but bottom to top
- flex-wrap

- nowrap (default):single-line/left to right in ltr; right to left in rtl
 wrap:multl-line/left to right in ltr; right to left in rtl
 wrap-reverse:multl-line/right to left in ltr; left to right in rtl

flex-flow (Applies to: parent flex container element)

This is a shorthand flex-direction and flex-wrap properties, which tog

open in browser PRO version

- flex-start (default): items are packed toward the start line
 flex-end : items are packed toward to end line

- space-between : items are evenly distributed in the line: first item is on the start line, last item on the end line
- Space-arconnective them can be evenly discharged in the line with expenditure of the line with expend

align-items





x items are laid out along the cross axis on the current line. Think of it as the 'justify-content' version for the cross-axis (perpendicular to the main-axis).

- flex-start :cross-start margin edge of the items is placed on the cross-start line
 flex-end :cross-end margin edge of the items is placed on the cross-end line

- Take-end : cross-end margin edge of the items is placed on the cross-end line
 center : Items are centered in the cross-axis
 baseline : Items are algred such as their baselines align
 stretch (default): stretch to fill the container (still respect min-width/max-width)

align-content



This aligns a flex container's lines within when there is extra space in the cross-axis, similar to how justify-content aligns individual items within the main-axis.

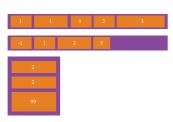
Note: this property has no effect when there is only one line of flex items.

- flex-end : lines packed to the end of the container
- Center: Items packed to the center of the container
 space-between: lines peaked to the center of the container
 space-between: lines evenly distributed; the first line is at the start of the container while the last one is at the end
- space-around : lines evenly distributed with equal space around each line
 stretch (default): lines stretch to take up the remaining space



Properties for the Children

(flex items)



flex-grow



This defines the ability for a flex item to grow if necessary. It accepts a unitless value that serves as a proportion. It dictates what amount of the available space inside the flex container the item should take up.

If all Rems have | F1ex-9F0W| set to 1, the remaining space in the container will be distributed equally to all children. If one of the children a value of 2, the remaining space would take up twice as much space as the others (or it will try to, at least)

flex-shrink

```
flex-basis
 This defines the default size of an element before the remaining space is distributed. It can be a length (e.g. 20%, Seem, etc.) or a keyword. The AULO keyword means "look at my width or height property" (which was temporarly done by the Malin-Size keyword until deprecated). The content keyword means "size it based on the item's content" - this keyword inn't well supported yet, so it's hard to test and harder to know what its brethren max-content., min-content., min-content., and "fit-content do.
If set to 0 , the extra space around content isn't factored in. If set to auto , the extra space is distributed based on its If Lex-grow value. See this graphic.
  This is the shorthand for flex-grow, | flex-shrink | and flex-basis | combined. The second and third parameters (flex-shrink | and flex-basis | are optional. Default is 0 1 auto
It is recommended that you use this shorthand property rather than set the individual properties. The short hand sets the other values intelligently.
align-self
 This allows the default alignment (or the one specified by align-items ) to be overridden for individual flex items.
Please see the align-items explanation to understand the available values.
Note that float , clear and vertical-align have no effect on a flex item.
```

Examples

Let's start with a very very simple example, solving an almost daily problem: perfect centering. It couldn't be any simpler if you use flexbox.

This relies on the fact a margin set to 'auto' in a flex container absorb extra space. So setting a vertical margin of Auto will make the item perfectly centered in both axis.

Done. Everything else is just some styling concern. Below is a pen featuring this example. Be sure to go to CodePen and try resizing your windows to see what happens.







Prefixing Flexbox

Related Properties

Other Resources

Bugs

Browser Support

Broken up by "version" of flexbox:

(new) means the recent syntax from the specification (e.g. display: flex;)
 (tweener) means an odd unofficial syntax from 2011 (e.g. display: flexbox;)
 (old) means the old syntax from 2009 (e.g. display: box;)

Chrome	Safari	Firefox	Opera		Android	IOS
20- (old)	2.1+(cld)	2-21 (old)	12.1+ (new)	10 (tweener)	2.1+ (old)	3.2+ (old)
21+ (new)	6.1+(now)	224 (new)		11+ (new)	4.4+ (new)	7.1+ (new)

Blackberry browser 10+ supports the new syntax.

For more informations about how to mix syntaxes in order to get the best browser support, please refer to this article (CSS-Tricks) or this article (DevOpera).





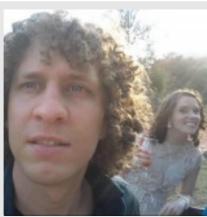
Bill Webb

Yay. Less javascript and more CSS. What's not to like? Great info, as always!



Alex

Flexbox its fine, but It is still not willd for a simple perfect "product grid" with no margins at first and last elements in row, and left aligned. Otherwise: could you build this layout using flexbox? http://s.noa.go/\frac{1}{2} VIVV jog thank



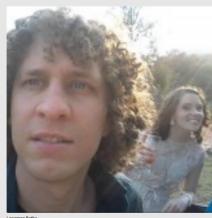
awrence Botha

1920, 2014

Ex Yes, you can. In the same manner that you do so with non-fliex grids, apply a negative margin-left to the grid wrapper, and apply that same value as padding left to all grid column

.grid { margin-left: -20px;}







Matt

 $The \, CSS \, Working \, Group \, has \, a \, document \, online \, of \, "... \, Mistakes \, in \, the \, Design \, of \, CSS", \, one \, of \, them \, is \, this: \, (CSS) \, ($

"Flexbox should have been less crazy about flex-basis vs width(height. Perhaps: if width flexight is auto, use flex-basis; otherwise, stick with width(height as an inflexible size. (This also makes min/max width)height behavior fall out of the generic definition.)

User images via gravatar.com

macgal







Alan carpenter

@Lawrence at the point of using flex does IE8 not become a problem already? I think the grid solution could be solved with nth-child. Then using media queries to make appropriate adjustments based on the users scree



Andy Maleh

Perfect Product Flexbox Layout (using justify-content: space-between and filler products)

See the Pen Aligned Row Wrap Flexbox by Andy Maleh (@AndyMaleh) on CodePen

Though to be honest, I don't like that I had to use fillers for the Flexbox implementation to ensure the last row is spaced ever

t would be mighty nice if they offer Flexbox row selectors for multi-row wrap fl

Here is an alternative implementation with display inline-block:

See the Pen Aligned Row Wrap Inline-Block Layout by Andy Maleh (@AndyNaleh) on CodePen.

User images via gravatar.com

Nafis

SEPTEMBER 22, 2015

User images via







Chris

Regarding the Case property



oops, sorry, my comment was for the whole board, not just to your po



Kuhan

<article class="main">
<aside class="aside aside-1">Aside 1</aside>

when this article and aside come as html tag, I never know this



Jacob Dubail

Thank you so much for the comprehensive write

just updated Firefox to v20 on a mac and now all of the flex-box demos aren't working. Everything still looks great in Chrome.

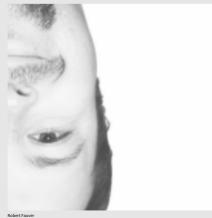
rryone else having this problem?











Robert Fauver

Note: 15, 2014

The demos are using the new fleabox specs which requires FF 22









Billy Wenge-Murphy



Daniel

Regarding the example with the 6 items of fixed dimensions to be evenly distributed – using t

Followski Sho to use this house or i

I'd really like to use this, however it's not doing exactly what I want. Let's say there's only room for 4 of the items on the first row, the remaining 2 will be evenly spaced on the second row. (ught

Is there arry way for items on the last row to be placed/aligned underneath the elements from the previous row (left->right

Coolcat007

This is something that can be done with the grid layout module, but it is not supported by the browsers yet.

You could almers use tables and calcil



Daniel

@CoolcattO7 You mention that this can be done with tables and calc() - is this so - even if you have a dynamic number of items?? If it is - any chance of a fiddle / codepen?

User images via gravatar.com

Coolcat007

giDaniel Sorry, I misunderstood your question. For a dynamic number of items, this won't work without JS or php.

This is indeed a thing that could be added.

Something like align-items:main-axis /cross-axis could be a great addition.













Coolcat007

I think that's because flexbox isn't fully supported by firefox until v22. That's why I'm running the v22 beta at the moment. You can always use the displaycbox until ff22 is released



Daniel # 2014 23, 2013



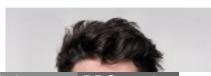
Kevin L.

You can use flexbox in production pretty well as long as you're using a sound way to detect less-than-ideal support for flex-wrap w/modernizer and use a ratio-based grid system like Singularitygs as a fallbac

example: http://sassmeister.com/gist/9781525 (toggle the flexbox and .noflex option

s a sound strategy to the extent you can use flexbox first towards planning for the layout and quickly create the fallback with a ratio-based grid system

As long as you're considerate enough to have a style guide that documents documenting how a particular component ought to look if it in facts differs from both, you should be f































Selenii

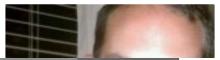
Yes, coly latest Chromism-based browsers like Chrome, Opera 16+et. seem to support multi-line filendoses currently. As a workaround, you can use nested filendoses in combination with media queries, as in my comment above (if's not so filendose a true multi-line filendoses, but still better than mobiling or use granted degradation to old suchniques like infline blocks.



paceaux
#SEPTEMBER 20, 2013



SECTION 27, 2010





Aron Duby
#october 13, 2013



Uncle Jesse
#OCTOBER 21, 2013

CIDITIVE Meals

Olical Class-Year-Wellter js non-Flankon flandor-legacy cannax cannastent whigh no-touch geolocation postessage no-webspliktabase indexedds handshappe history dragendings wheathers rgis hals multipletes backgroundsize borderinage benderinage benderinage benderinage benderinage castrantiation casculams cascradiants no-castrallection castrantificns castrantificns castrantificns fortifica generated



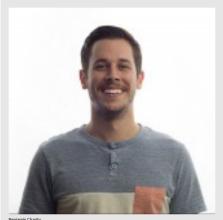














Andy

INVESTIGATION CONTROL TO THE STATE OF THE STATE O



User images via gravatar.com

Mark



Brad Spencer

Having trouble with 2 flexboxes aligned horizontally when one is set in column flow and the other in column-reverse flow

How do I fix this? Thanks!

User images via gravatar.com

Justin March 1

Simple fix I think. You need to set the container (#window) to flex so that your 2

s are flex children

#window { display: flex; }











Gimm

Hi Chris,
I'm trying to make a div which its width auto grow with its conten

display: inline-flex;

There seems a bug that with the container's main size, please see this per

User images via gravatar.com

Mumtaz

Can u check Safari... flex property not supported.



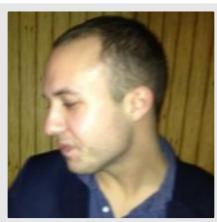






















Applications



ADRISHER FINISHIAF

#APRIL 20, 2014



#APRIL 21, 2014



















User images via gravatar.com

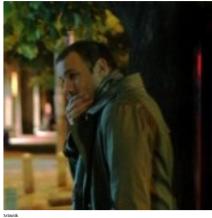








Chris Coyier



Srbiotik

BMAY 28, 2014

User images via gravatar.com

datt

lit of a long shot here, but do any Email clients support Flex box. ? Would be useful in HTML emailers to rearrange the order of elements

User images via











Yehud

try align-content: flex-start; on the container. I'm not too sure if it will help for your purpose, but with your demo it works.

Also, I would rather set flex: 1 1 20%; on each sub item instead of specifying the width (again, it depends on what you want to do



Saman

div#container {
 align-content: flex-start

User images via gravatar.com

Stephen

Hi there,

Thanks for both of the tips; the first one works well and solves the problem I was having.

Hypo base fine, twan begings your eight but had not as me that succed on as lifed, it all bloomers, firm not wailly user been facility or firm of the succed of the size of the purple between the first Per lighted amount of the second in the code your provided, but it doesn't seem to due provided, but it do

Cheers again,

Steve.





Guys, what about "order". It doesnt look good in safari, even doesnt look anyhow. 8) how to make it work in safari?

User images via gravatar.com

rehuda

I gave up on Safari. Not supporting it on my sites.

You could just revert to floats for it, but when I discussed it with my emp

fou could just revert to floats for it, but when I discussed it with my employer he said "no one uses it anyways".

@Stephen, play around with flex: 1 1 20%

User images via gravatar.com

Johnny

Safari 5.7.1 Works only this

display: -webkit-bo

and that's it. Nothing else can make work :-{ the read that this varsion of Safari is (old), but how it should to looks lik

I've read that this version of Safari is (old), but how it should to looks like? Can't handle it...

open in browser PRO version

User images via gravatar.com





Hasschi

#August 1, 2014

IOS7 use -webkit-justify-content instify-content doson work

User images via gravatar.com

Gopinath

#AUGUST 10, 201

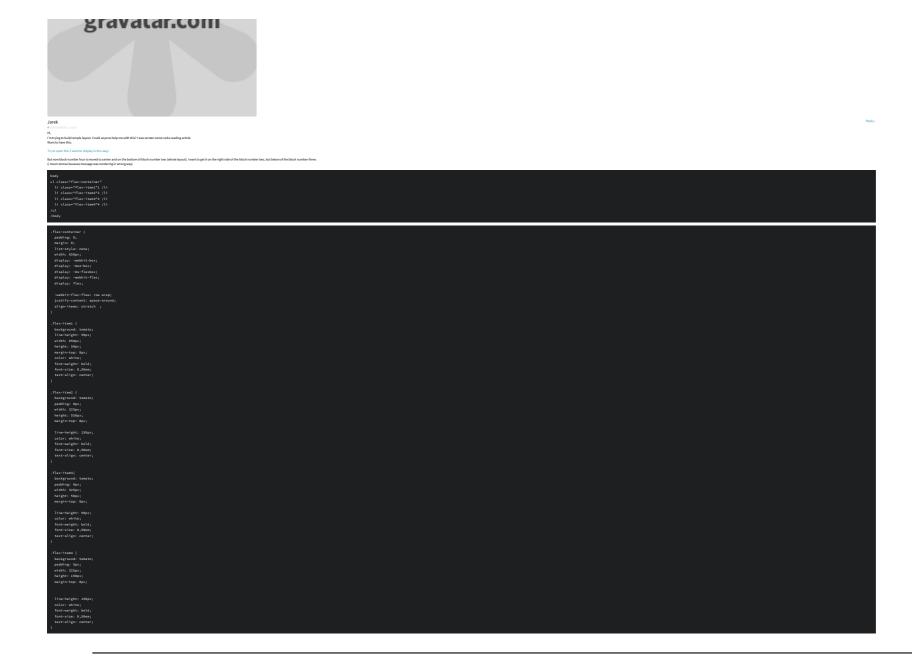
My requirement is need to alignment support all browser without use Javascript. Use only CSS/CSS

Note Perficular para line Margin top value support all browser (Mozilla, Chrome, Saferi) as per match POP. But #1 browser some different is will came, in case for adjust #1:11 browser, at the time margin-top value change another browser_So, how to modify all browser requirement. If any possible on that particular #E-11 alignment modification safe









User images via









User images via

gravatar.com

User images via gravatar.com











User images via

gravatar.com

Paul

COTAMER 29, 2014

COTAME

User images via gravatar.com

PROYEMBER 10, 2014

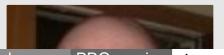
This is one of the best code tutorials I've ever seen. Kudos for taking the time to make this super int

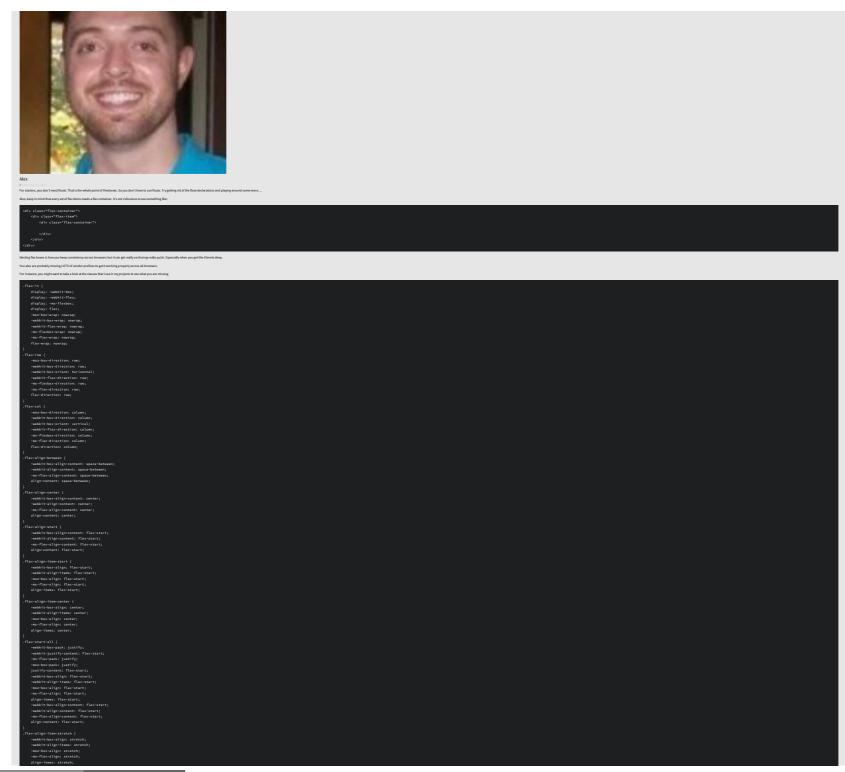






















Peter I.

Hi everyone,

e been working on this layout which I managed to work perfectly in modern Firefox & IE browsers, but it's not working as expected in chrome and safari (which leads me to believe I'm not implementing the flex box correctly)

The costed the html file here into://www.datamosis.com/bist_lavout.html

In Safari and Chrome, the contents do not fit perfectly in the browser window, and the footer div tag

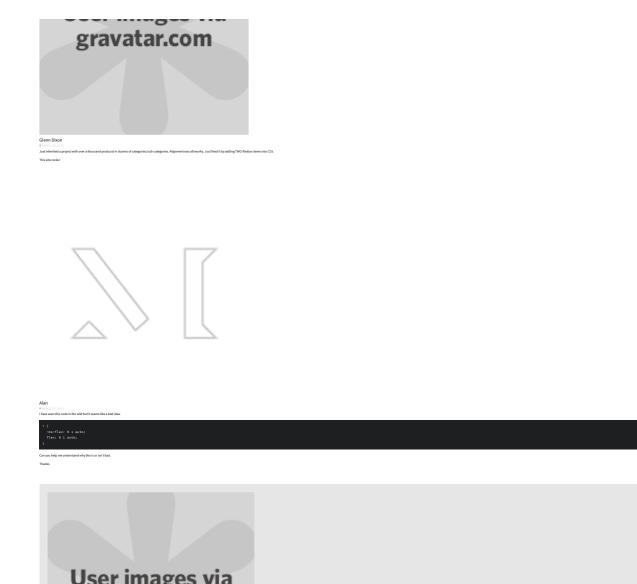


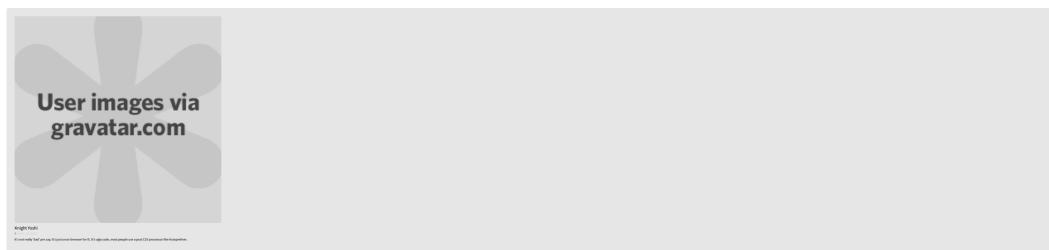














netdog

Why did you add the classe

header class = "header"> Header </ heade

Do not write now (html5).

handen Hander of hand

tried to remove the &I I classes, but the site is broken. I do not understand

User images via gravatar.com

tahul Kumar

APRIL 1, 2015
house six are like read-marks vis hoots tran remonsents or ansular itself. Thousands office in Mah-wass descinoment are hereming breath new given most of the remove hunder is taken by the framework. I was it thanks

Michael

What bothers me, is if you use either flex-direction: row; or flex-direction: column; It dictates what property you use to center objects horizonta

Maybe I don't just understand the log





Andy Maleh

thirk align-items and justify-content got mixed up in the example shared. Also, you the container article is missing a height, which ends up in confusing the result of applying align-items and justify-content as the same in that special case

Here is an example that might help clear this up for you I hope:

User images via gravatar.com

Kevin

roother great article!
Insight this page as a poids and reference, I created a web-app based log in template that looks like a phone-app. It's mostly just an exercise in column layout for flex; it helped me gain a much greater understanding of flex properties and I thought someone else might care to poke at it to help lease

Here's the result: https://jsfiddle.net/Serk0413/y6ugdegx/10/embedded/result/ (complete w/ "hamburger" nav)

It uses a full mix of css flex props including a flex column w/ nested rows and nested traditional css (no float

Thanks for another great article, Chris





Paul OS

Autor 20, 2012

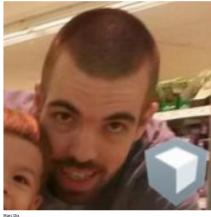
Autor 20, 2012

In rotice that the 2 column demo at the end is not working and should there be more content in the sidebars than the one word shown then the columns stretch to 190% width and break the end.

gmedia all and (min-width: 600px) {
 .aside {
 flex: 1 0 0;
 }
}













Marco

@Alex maybe a bit late, but this is my subtion and it seeks pretty well.



Noelinho

I's worth noting is that internet Explorer struggles when you used mixed units. I often use flexbox with margins and calc, so I might use something like:

width: calc((100% - 20px) /

This works fine with Salari, Friefox and Chrome, but not Internet Explorer J. guess it's a rounding error, and it won't affect all resolutions, but a combination of screen width and element width might sometimes mean you only get two columns on a fine instead of three. To get around this, I

@media all and (-ms-high-contrast: none), (-ms-high-contrast: acti .menu-item (

}

margin-left: 2%;

This takes account of the percentage difference in the margins. It's doesn't look quite as clean as in the other browsers, but it does solve the problem and it isn't too convolute



FULLY 27, 2015













User images via gravatar.com



Eniep Yrekcaz

Thanks a must for the article? It beamed a bat. On the question from flowing to the proportion of the



Faul Brady

To make Flexbox play nicely with iPhone/iPad, add the following metatag

Cheerst





User images via gravatar.com

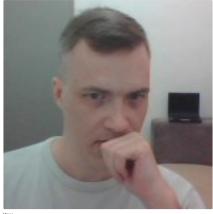
User images via gravatar.com

open in browser PRO version Are you a developer? Try out the HTML to PDF API













Coolcat007

The proposed changes to CSS were initiated year ago, along with the introduction or HTMLS. Most of it are in fact additions to CSS and HTML; arather than to complicate or many and the production of HTMLS were initiated year ago, along with the introduction of HTMLS. Most of it are in fact additions to CSS and HTML; arather than to complicate or many and the production of HTMLS. Most of it are in fact additions to CSS and HTML; are the fact of the production of HTMLS. Most of it are in fact additions to CSS and HTML; are the fact of the production of HTMLS. Most of it are in fact additions to CSS and HTML; are the fact of the production of HTMLS. Most of it are in fact additions to CSS and HTML; are the fact of the production of HTMLS. Most of it are in fact additions to CSS and HTML; are the fact additions to CSS and HTML; are the fact of the production of HTMLS. Most of it are in fact additions to CSS and HTML; are the fact additions to CSS and HTML; are the fact of the production of HTMLS. Most of it are in fact additions to CSS and HTML; are the fact additions to CSS and HTML; are the fact of the production of HTMLS. Most of it are the fact of the production of HTMLS. Most of it are the fact additions to CSS and HTML; are the fact of the production of HTMLS. Most of its are the production of HTMLS. Most of HTMLS. Most of HTM

And as a matter of fact, you are still free to use CSS2 and HTML4 if you wish. Nobody is stopping you, but you deny yourself some awesome tools if you do



Vince

The reason that I enjoy working with the web is that it's always growing. There's always something more to learn

ne same is true for any technology or even life in general, really. Without new features and new capabilities, we atrophy and fail to realize our full potenti

suspect that relatively few people want to settle for what we have now and just work with tha

should anniably ha noted that the W1C documents recommendations not requirements. Frenchine's notional

ou many have been moved by PPK's article: Stop pushing the web forward

I found this counterpoint by Bruce Lawson enlightening: On PPK's moratorium on new browser featu

Both of those articles, and more linked to at the end of Bruce Lawson's article, were written by people much smarter than n

hat to say it, but the frustration expressed by PPK and many others strikes me as very similar to my daughter's frustration with going to school. After all, she already has TV, YouTube, and all the toys she needs at ho













@LouisaYou didn't include your CSS code, so it's impossible to tell what's wrong. I put your HTML into a Pen and set impage I continue (display: flex;) and it works fine

If you want help, you need to post your CSS code as well. Better yet, post your question and all related code to a site like Stack Overflow that's designed for questions and answer



Stonbon

According to caniuse.com, flexbox is supported in iOS8.* via the webkit prefit

.....

I just got a defect ticket for iOS7 where flex doesn't work. So, is the above table wron



Proov

This guide is my flex bible! I use it almost once a day!! Many thanks to you Chr

Anyone know if there is a printable version? a kind of cheat sheet?

Thanks:)

User images via gravatar.com

FEBRUAL

15. I need to align all elements inside flex container to each other. Suppose I have made two div of equal height using flex and now I want to make the all the elements inside the div to align to each each other. Is that possi

User images via gravatar.com

User images via











If it takes you "megabytes" of code to make a page, you're either doing something very wrong or you've got much more than "just a page", such as a very complex system of scripts or sir

User images via gravatar.com

Syed Asad Abbas

Can We make fixed navigation while creating layout of our navigation with flexbox







Loren ipsum dolor sit amet consecteur adipisicing elit.













Otto Nascarella

I have encountered a bug on firefox that does not allow elements to be flex containers.

It took me AGES to find that out, so I wanna share this with other folks that might be exing though the pain I have just experie

pibin link that shows bug: https://jsbin.com/kobeto/1 bugzilla link: https://bugzilla.mozilla.org/show_bug.cgi?id=984865



Otto Nascarella



Leave a Comment



