CSS3 Modules
with Vijay Shivakumar

By Vijay Shivakumar

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About you…?

Designers
Developers
Content Writers
Business Analysts
Prior Knowledge on HTML or HTML5

Vijay Shivakumar

Designer | Developer | Trainer

Training on web and Adobe products from past 15+ years

Introduction to CSS3

- The CSS3 is not a specification or a standard,
Its a bunch of browser manufacture prefixes which could not make their way in to CSS2.
- The features are divided into several separate documents called "modules"
- The earliest CSS 3 drafts were published in June 1999
- CSSWG is driving the implementation on browsers

Benefits

Sensible selectors avoid adding classes and ids

Addresses loads of designer required features for developers.

Loads faster compared to canvas animation.

Utilities to address resolution and layouts and related issues

Selectors module
new selectors target elements more precisely
without adding classes or ids

New Selectors in CSS3

:first-child
:last-child
:nth-child(#)
:nth-child(odd/even)
:nth-child(2n)
:nth-child(3n + 4)
:nth-child(3n - 4)

:nth-of-type(#)
:nth-of-type(odd)
:nth-last-child()
:nth-last-of-type()
:first-of-type
:last-of-type
:only-child

:only-of-type
:checked
:enabled
:disabled
::selection
:root
:empty
:not()
> direct child

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Sizing module
Makes the selection to restrict the padding within the width of the element, and wont grow outside because of padding

Sizing module | Box sizeing

-moz-box-sizing: border-box;

-webkit-box-sizing: border-box;

box-sizing: border-box;

Flex-Box module
Highly optimised for UI design, they are flexible. They can be laid out in any direction both horizontally and vertically in any order and can be flexible.

Read more on Flex-Box module
@
http://www.w3.org/TR/css3-flexbox/

History

An implementation by Mozilla in XUL

July 2009 Working Draft (display: box;)
March 2011 Working Draft (display: flexbox;)
November 2011 Working Draft (display: flexbox;)
March 2012 Working Draft (display: flexbox;)
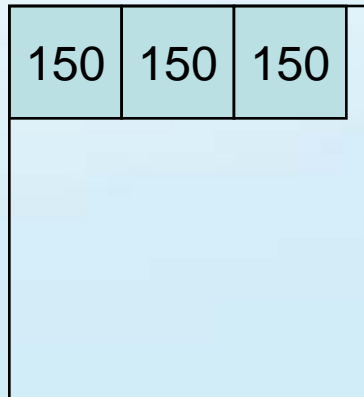June 2012 Working Draft (display: flex;)
September 2012 Candidate Recommendation (display: flex;)

Flex-Box : flex-basis

flex-basis : auto(default) | width in px, percent, rem, em

With 150px it will make the element to have a basic size of 150px
You can think of this as the natural width of the element.
until other layout properties affect it.
which is the max width they can grow.

150	150	150

Flex-Box : grow

flex-grow : 0 (default) | any number

Denotes that the element can grow
0 no growth 1 will make it grow to occupy all the width on the parent
In this ex 2 means that element will grow twice as much as
element with grow set to 1

0	1	2

Flex-Box : shrink

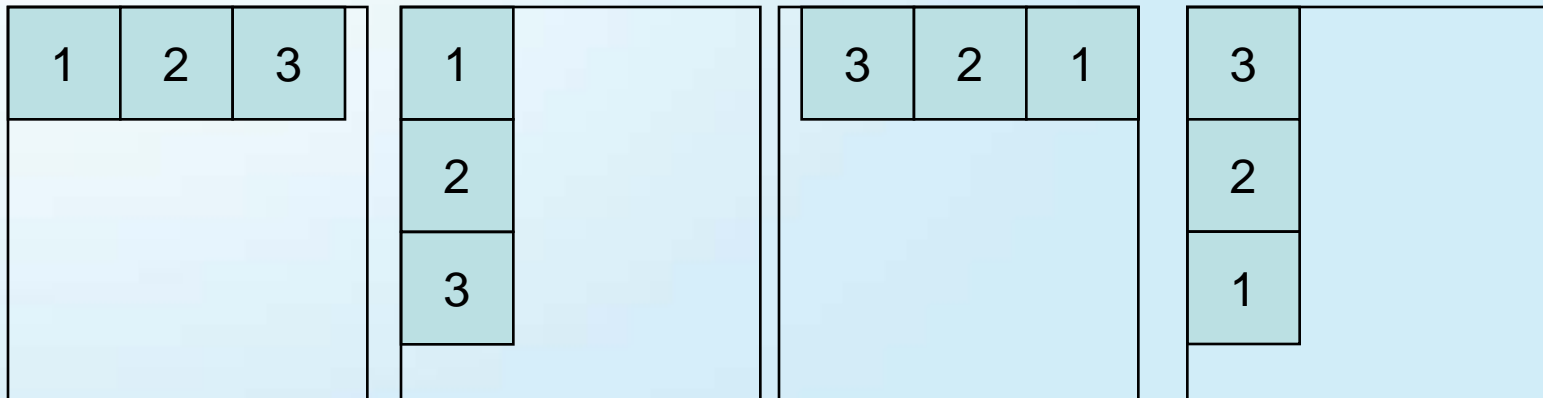flex-shrink : 1 (default) | 0 | any number

Denotes that the element can shrink
0 no shrink1 will make the elements shrink and adjust the size of its parent.
flex-shrink : 2 will allow this element to shrink twice as much
compared to elements with flex-shrink : 1

0	1	2

Flex-Box : shorthand

flex: 1 1 150px | flex : flex-grow flex-shrink flex-basis
Denotes that the element can shrink
0 no shrink1 will make the elements shrink and adjust the size of its parent.
flex-shrink : 2 will allow this element to shrink twice as much
compared to elements with flex-shrink : 1
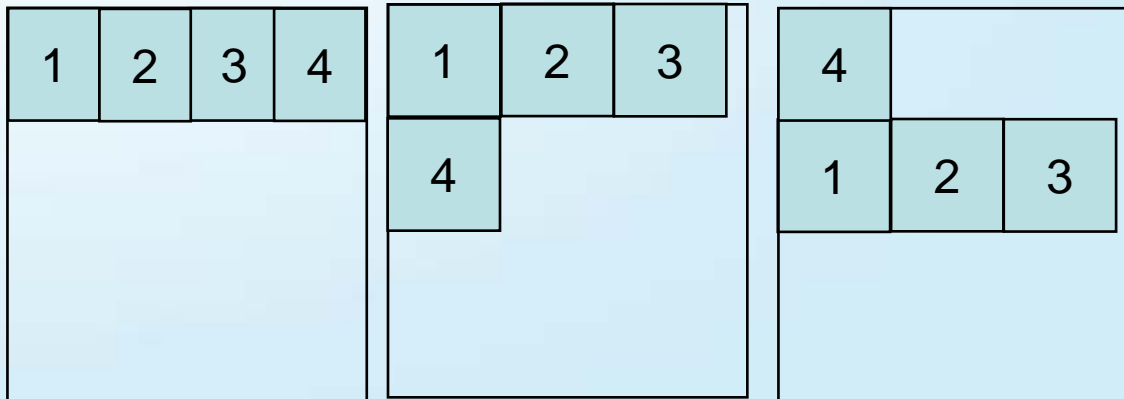
Flex-Box : flex-direction

flex-direction : row (default) | column | row-reverse | column-reverse

Flex-Box : flex-wrap

flex-wrap : nowrap(default) | wrap | wrap-reverse
is applied to parent / container

| 1 | 2 | 3 | 4 |

| 1 | 2 | 3 |
| 4 | | |

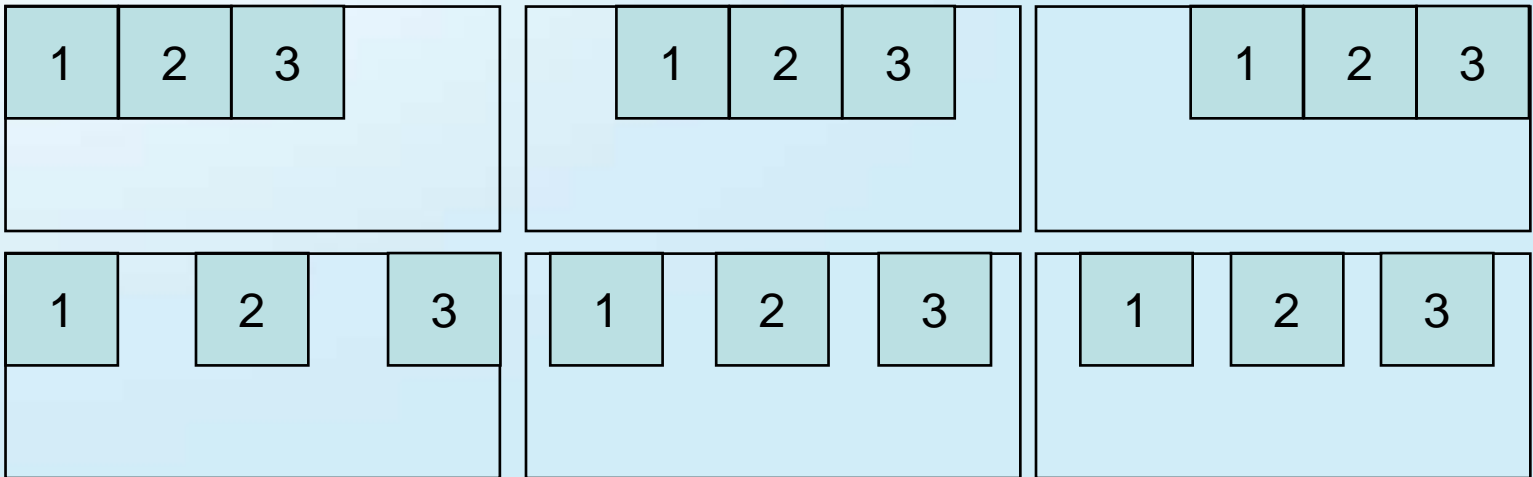| 4 | | |
| 1 | 2 | 3 |

Flex-Box : flex-flow

flex-flow : flex-direction | flex-wrap
Shortcut for both flex direction and flex wrap
is applied to parent / container

Flex-Box : justify-content

Justify-content: flex-start (default) | flex-end | center | space-between |
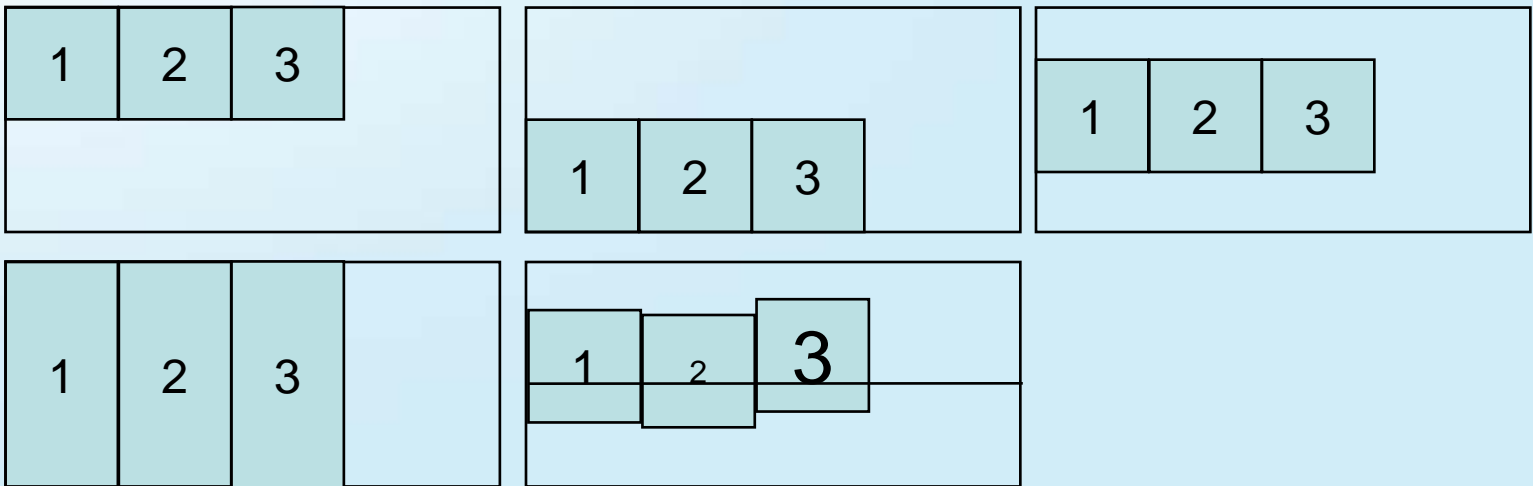space-around | space-evenly
is applied to parent / container

Flex-Box : align-items

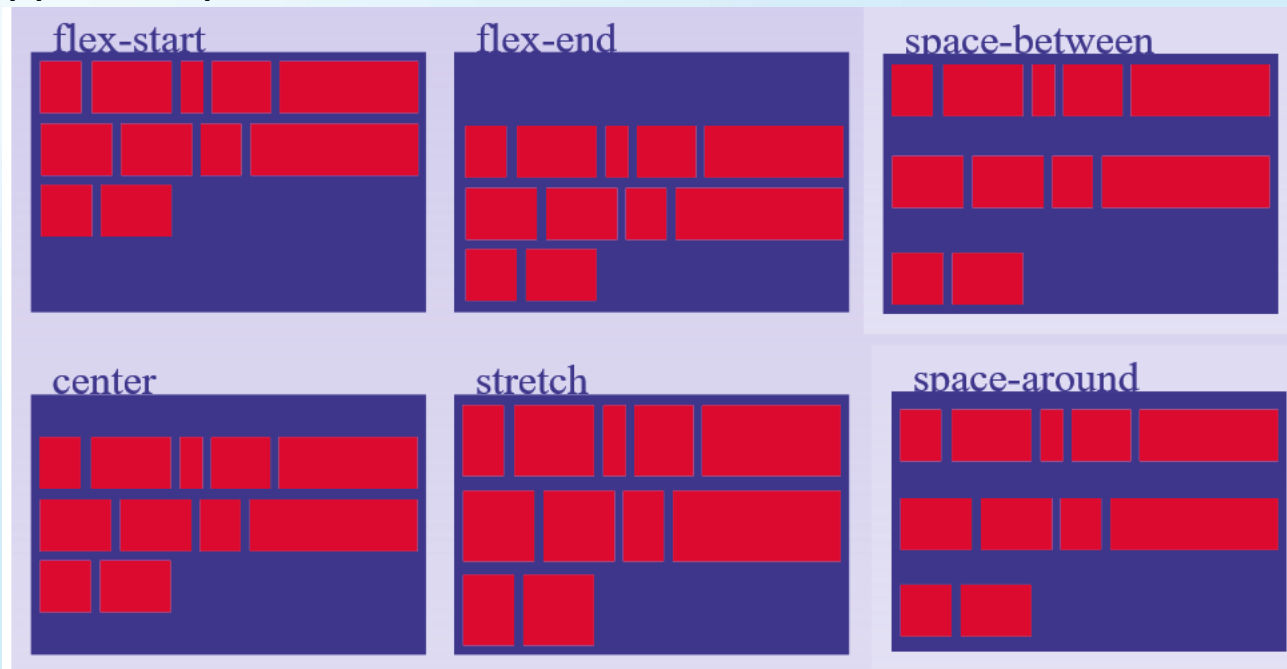align-items : flex-start (default) | flex-end | center | stretch | baseline

is applied to parent / container

Flex-Box : align-content

align-content: stretch (default) | flex-start | flex-end | center |
space-between | space-around ;
is applied to parent / container

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