



CSS3

Vijay Shivakumar



CERTIFIED EXPERT
Web Specialist®



CSS3

CSS3 : Introduction

- The Cascading Style Sheets version 3 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.



CSS3

Benefits

**Addresses loads of designer required features.
Loads faster compared to canvas animation**



css3





CSS3

CSS3 Selectors Module

**A Common sense approach
new selectors target elements more precisely
without adding classes or ids**



CSS3

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



CSS3

Box sizing

```
-moz-box-sizing: border-box;  
-webkit-box-sizing: border-box;  
box-sizing: border-box;
```



CSS3

CSS3 | Flex Box



CSS3

Flex Box

<http://dev.w3.org/csswg/css3-flexbox/>

History :

An implementation by Mozilla in XUL



CSS3

Parent Container

Parent container can have either

display : box (to layout child elements)

display: inline-box (to layout inline element)



CSS3

Flex box properties

box-orient vertical horizontal

box-align center start end .

box-direction normal or reverse

box-flex flexibility in number 0(default),1,2

box-pack center start end justify.

box-ordinal-group arranged as their group num

box-flex-group [priority in which boxes are resized. The lower
the value higher the priority]

box-lines [single or multiple]

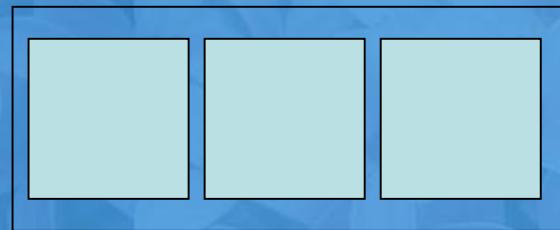


CSS3

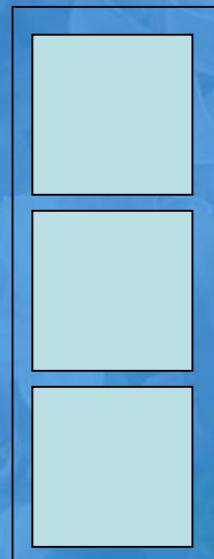
Flex box | box-orient

box-orient : horizontal | vertical

horizontal



vertical



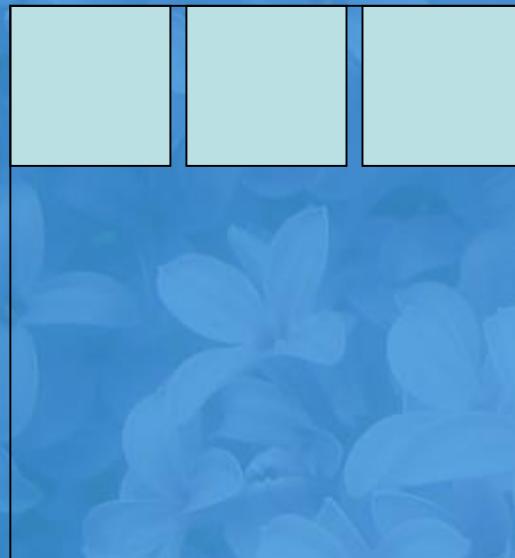


CSS3

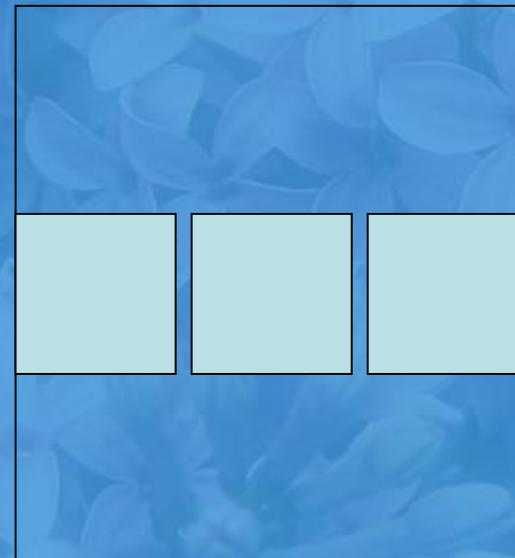
Flex box | box-align

box-align center | start | end .

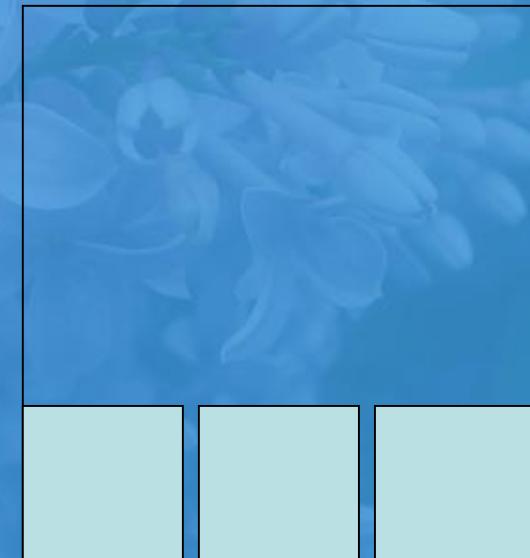
start



center



end



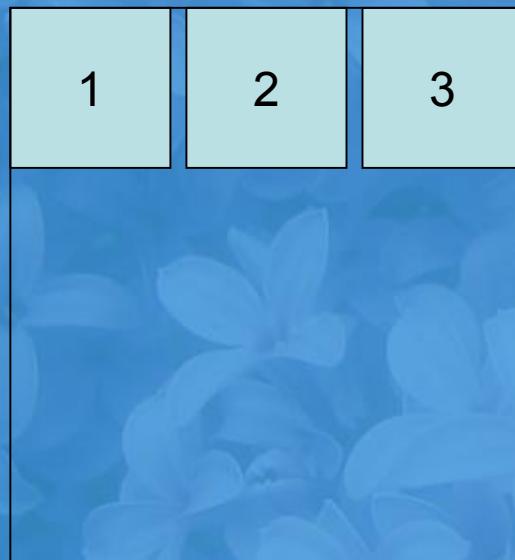


CSS3

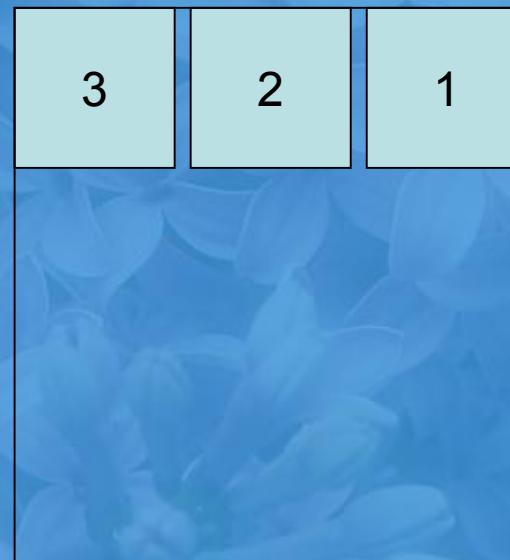
Flex box | box-direction

box-direction normal | reverse .

normal



reverse



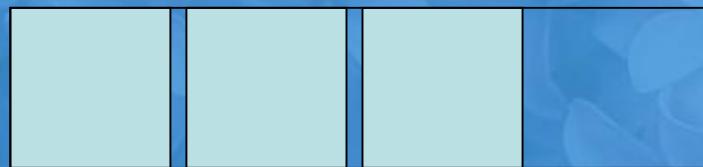


CSS3

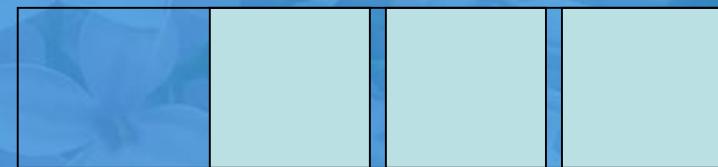
Flex box | box-pack

box-pack center | start | end | justify .

start



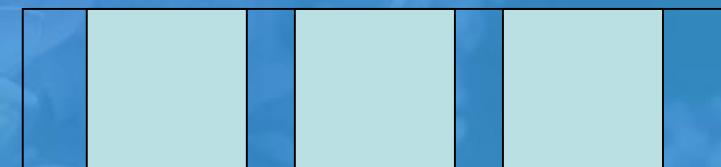
end



center



justify



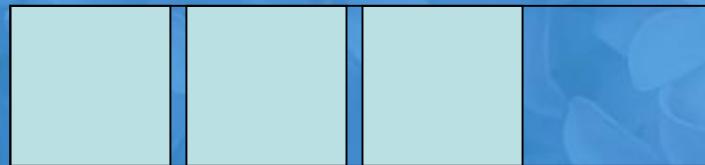


CSS3

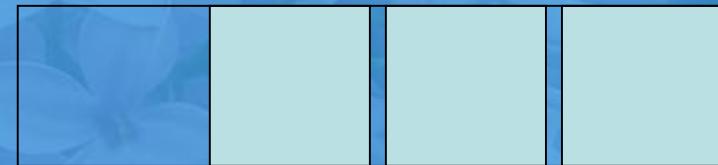
Flex box | box-pack

box-pack center | start | end | justify .

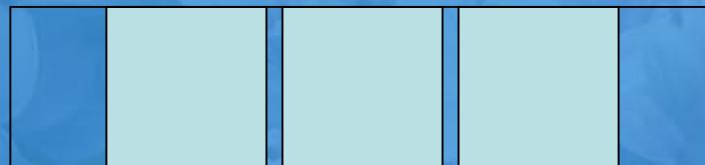
start



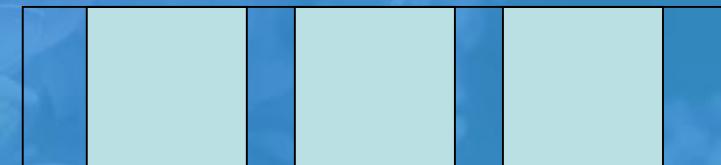
end



center



justify





css3

Meta Tag | viewport



CSS3

What is this metatag for ?

<meta name= “viewport” >

Other attributes

content : width of the page content

width : width of the viewport

device-width : width of the device

initial-scale : scale ratio

maximum-scale : how much can the device scale

user-scalable : can the user scale or not



CSS3

```
<meta name="viewport"  
      content="width=device-width, initial-scale=1,  
      maximum-scale=1">
```



CSS3

CSS3 | RWD



CSS3

History

Ethan Marcotte

coined the term responsive web design (RWD)
in a May 2010 article in *A List Apart*.



css3

css3 | @media Query



CSS3

@media : Media Query

What is media query?

Media Queries allow you to style elements for specific devices as per their

Resolution

Aspect ratio

Orientation

Color index



CSS3

@media : Media Query

**device-width
device-height
resolution
orientation**



CSS3

CSS3 | @font-face



CSS3

@font-face

```
@font-face {
  font-family: Myfont;
  src: local( "locally available name (when cached
    by browser")",
  url(font name.ttf);
  font-weight: bold;
}
```



CSS3

CSS3 | Transform



CSS3

Transform

```
#box {  
    transform:skew;  
}  
skew | scale | rotate | translate  
skew(45deg) ;  
scale(.5,.5);  
rotate(45deg)  
translate(10px, 10px) left offset, top offset
```



CSS3

Transform

```
#box {  
    transform:skew;  
}  
skew | scale | rotate | translate  
skew(45deg) ;  
scale(.5,.5);  
rotate(45deg)  
translate(10px, 10px) left offset, top offset
```



CSS3

CSS3 | @keyframes



CSS3

@keyframes

```
@keyframes keyFrameName{  
    from{  
        prop: val;  
    }  
    to{  
        prop: val;  
    }  
}  
selector{  
    animation-duration: 3s;  
    animation-name: keyFrameName;  
}
```



CSS3

@keyframes

```
@keyframes keyFrameName{  
    10%{  
    }  
    50%{  
    }  
    100%{  
    }  
}  
selector{  
    animation-duration: 3s;  
    animation-name: keyFrameName;  
}
```



Animation props

animation-iteration-count: infinite / 3 (default =1)

animation-duration: 6s / 120ms

animation-direction: normal / reverse / alternate / alternate-reverse

animation-delay: 3s

animation-timing-function: ease / ease-in / ease-out / ease-in-out / linear /



CSS3

Animation props

animation-delay

delay between the time the page is loaded and animation.

animation-direction

alternate direction on each run through the sequence or reset to the start point and repeat itself.

animation-duration

time that an animation should take to complete one cycle.

animation-iteration-count

number of times the animation should repeat;

animation-name

Specifies the name of the @keyframes

animation-play-state

Lets you pause and resume the animation sequence.

animation-timing-function

how the animation transitions through keyframes, by establishing acceleration curves.

animation-fill-mode

values applied by the animation before and after it is executing.



CSS3

Shadows





CSS3

vijay.shivu@gmail.com