



CSS Selectors



CSS selectors

- Using selectors we specify to which content styles to be applied.
- Required for Internal & External CSS

1. Simple selectors

2. Combinator selectors

3. Pseudo -class selectors

4. Pseudo –element selectors

5. Attribute selectors

CSS selectors

Simple selectors

1.Tag Based

tagname{

Property1:value

Proprty2: value

.

.

property n: value

}

Ex: p {

color: white;

background : green;

}

CSS selectors

Simple selectors

2.id based

#id name{

Property1:value

Proprty2: value

.

.

property n: value

}

Ex: #second {

color: white;

background : green;

}

CSS selectors

Simple selectors

3 class based

.class name{

Property1:value

Proprty2: value

.

.

property n: value

}

Ex: .special {

color: white;

background : green;

}

Combinator selectors



CSS selectors

- Child Selector(>)
- Descendent selector(space)
- Adjacent Sibling Selector(+)
- General Sibling selector (~)



Pseudo class Selectors :



Pseudo class Selectors

- Used to style an element based on its state

Syntax

```
selector:pseudo-class name {  
  
    property: value;  
  
}
```




Pseudo class Selectors

- `:hover`
- `:link`
- `:visited`
- `:active`
- `:target`
- `:focus`
- `:required`
- `:optional`
- `:read-only`
- `:read-write`
- `:valid`
- `:invalid`
- `:disabled`
- `:default`
- `:checked`
- `:in-range`
- `:out-of-range`
- `:enabled`
- `:optional`
- `:empty`
- `:not()`
- `:first-child`
- `:last-child`
- `:nth-child()`
- `:nth-last-child()`
- `:nth-last-type()`
- `:nth-of-type()`
- `:only-child`
- `:only-of-type`
- `:first-of-type`
- `:last-of-type`



Attribute Selectors []



Attribute Selectors

- 
- # Attribute Selectors



Attribute Selectors

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Commonly used pseudo elements

::first-letter (:first-letter)

::first-line (:first-line)

::before (:before)

::after (:after)

::selection

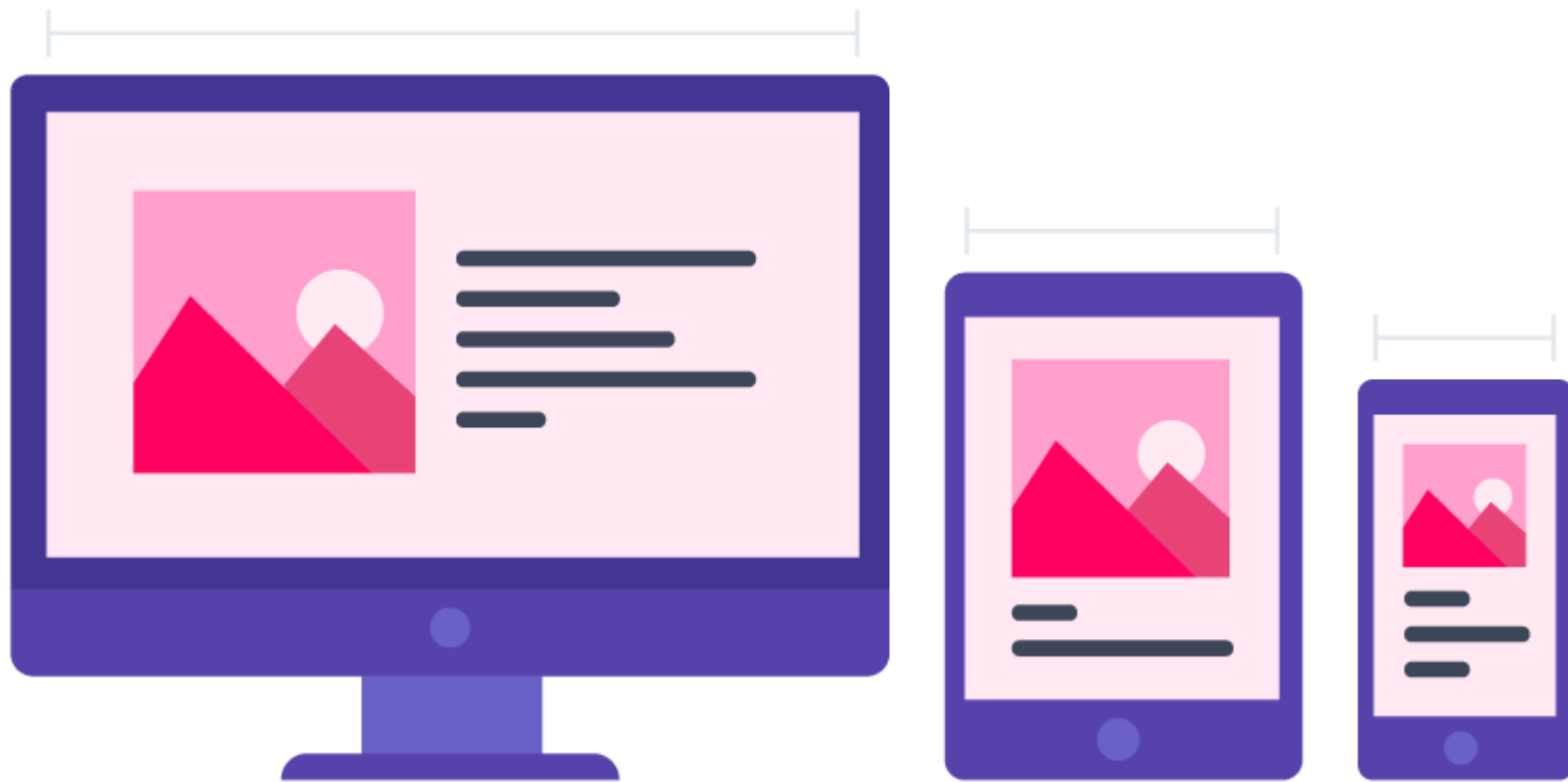


Pseudo element
Selectors



Media Queries

CSS





CSS Units



CSS Units

- px (Absolute size)
- % (Related to parent width/height)
- vw /vh (Related to screen size)
- rem (related to root element font)
- em (related to its font size)



CSS

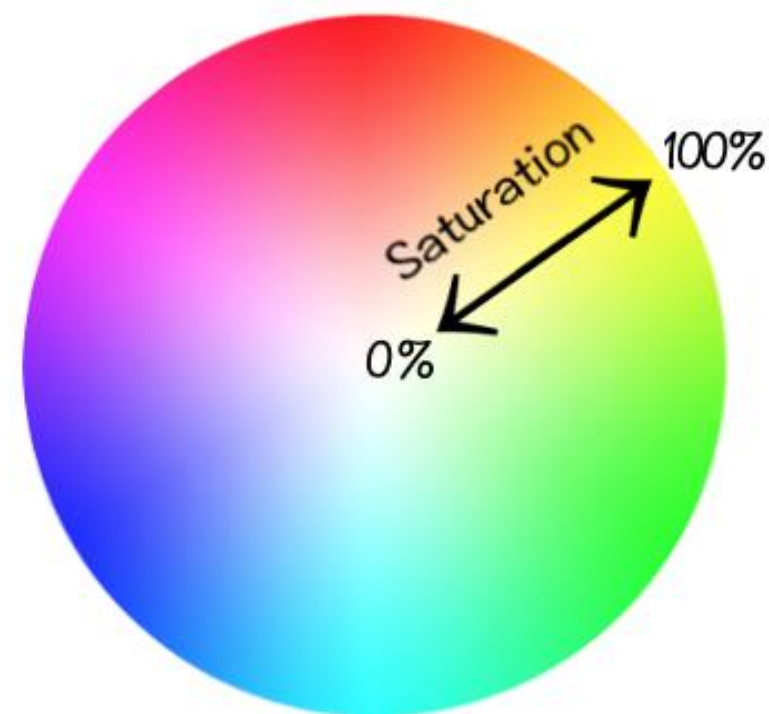
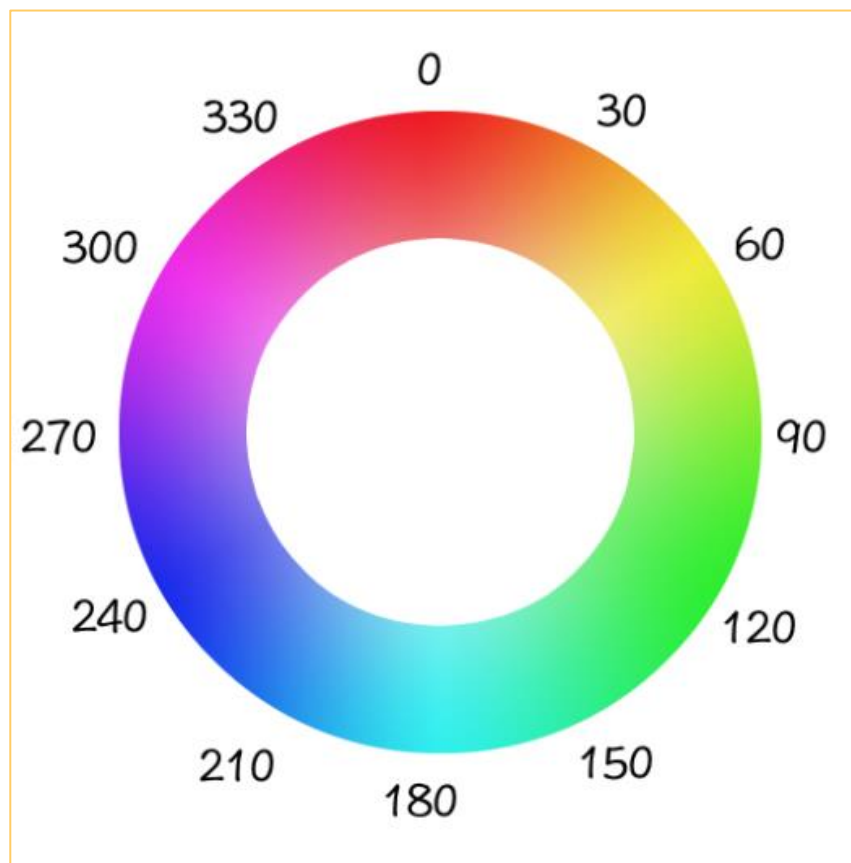
Color Formats



CSS Color Formats

- Color Names
- RGB - `rgb(255,0,1)`
- Hexadecimal (`#rrggbb`)
- HSL - `hsl(10,20%,50%)`
- RGBA - `rgba(255,0,1,0.6)`
- HSLA - `hsla(10,20%,50%,0.6)`

CSS Color Formats

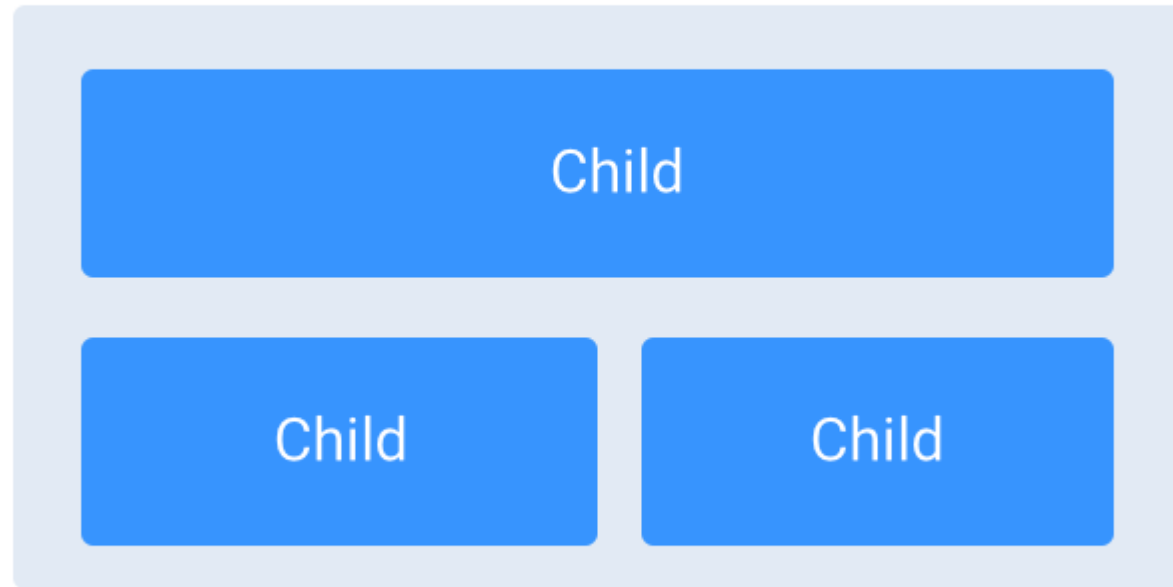




CSS Flexbox

CSS Flex box

parent



CSS Flex box

Parent/flex container Properties

display: flex

flex-direction: row | row-reverse | column | column-reverse

flex-wrap: nowrap | wrap | wrap-reverse

flex-flow: <'flex-direction'> || <'flex-wrap'>

justify-content: flex-start | flex-end | center | space-between | space-around

align-items: flex-start | flex-end | center | baseline | stretch;

align-content: flex-start | flex-end | center | space-between | space-around | stretch

CSS Flex box

Child/flex items Properties

order: integer

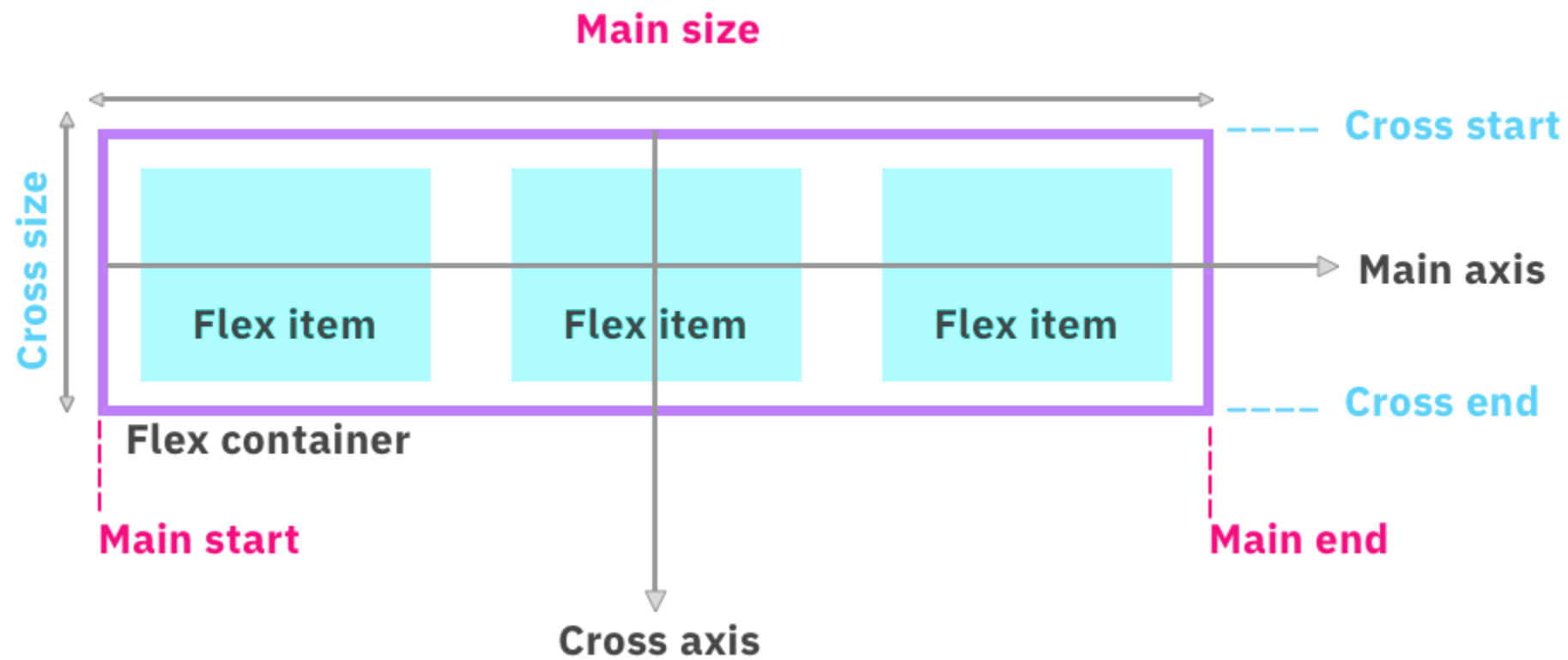
flex-grow: number

flex-shrink: number

flex-basis: length | auto;

flex: 'flex-grow', 'flex-shrink' 'flex-basis'

align-self: auto | flex-start | flex-end | center | baseline | stretch;



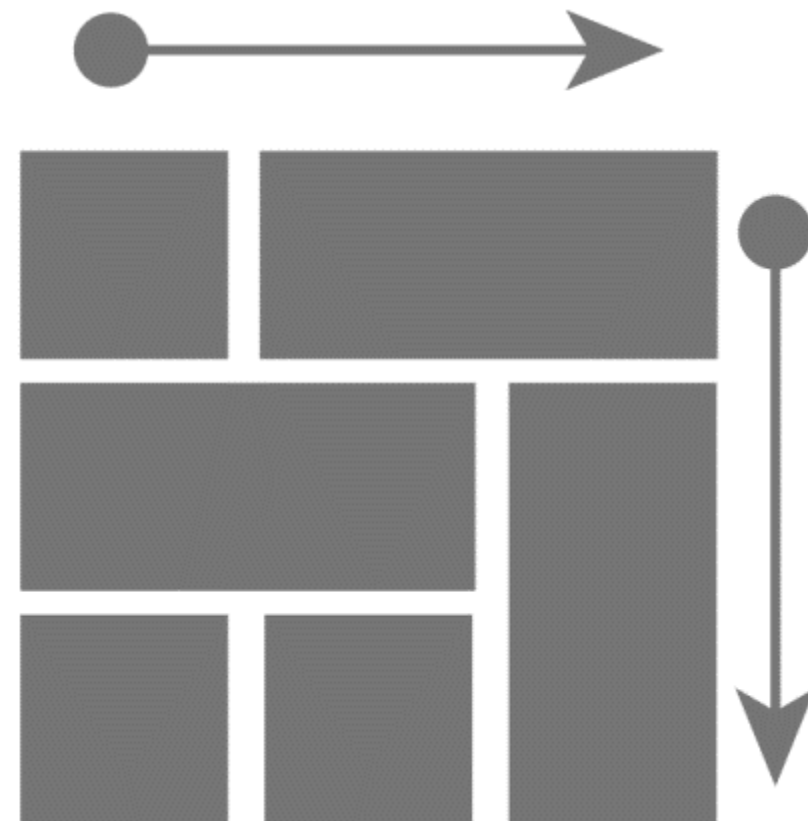


CSS Grid



Flexbox

ONE DIMENSION

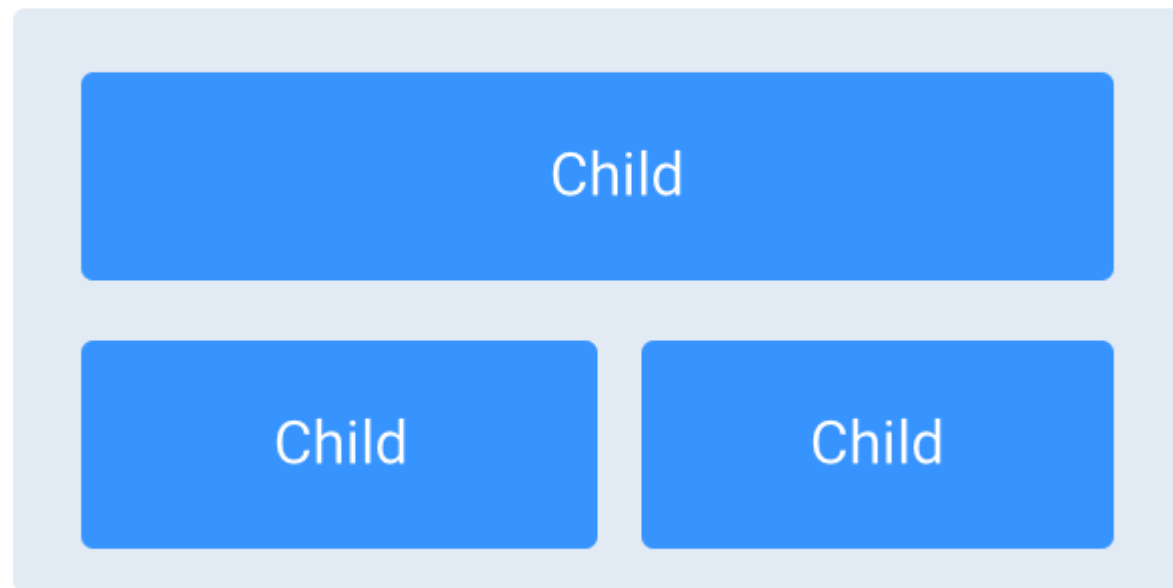


CSS Grids

TWO DIMENSIONS

CSS Grid

parent





CSS Grid

Parent/Grid container Properties

display : grid

grid-template-columns

grid-template-rows

grid-template

grid-template-areas

row-gap

column-gap

gap

justify-items

align-items



CSS Grid

Child/grid items Properties

grid-column-start

grid-column-end

grid-column

grid-row-start

grid-row-end

grid-row

Grid-area

align-self

Col line 1

Col line 2

Col line 3

Col line 4

A 4x4 grid is shown with four columns and four rows. The grid is defined by five vertical gray lines and five horizontal gray lines. The first three columns and the first three rows contain light blue rectangular cells. The cells in the fourth column and the fourth row are empty. The labels 'Col line 1' through 'Col line 4' are positioned above the vertical lines, and 'Row line 1' through 'Row line 4' are positioned to the right of the horizontal lines.

Row line 1

Row line 2

Row line 3

Row line 4

Col line 1	Col line 2	Col line 3	Col line 4	
Child1	Child 2			Row line 1
Child 3		Child 4		Row line 2
				Row line 3
Child 5	Child 6	Child 7		Row line 4

Header

Navbar

Content

Aside

Footer