



ANGULAR
ARCHITECTS

CSS Essentials

Alexander Thalhammer | @LX_T

Essentials

- Shorthands
- Box model
- Box sizing
- Display & pos.
- Width & height
- Pseudo classes
- Pseudo elements
- Grouping styles
- BEM syntax
- Important props

Agenda

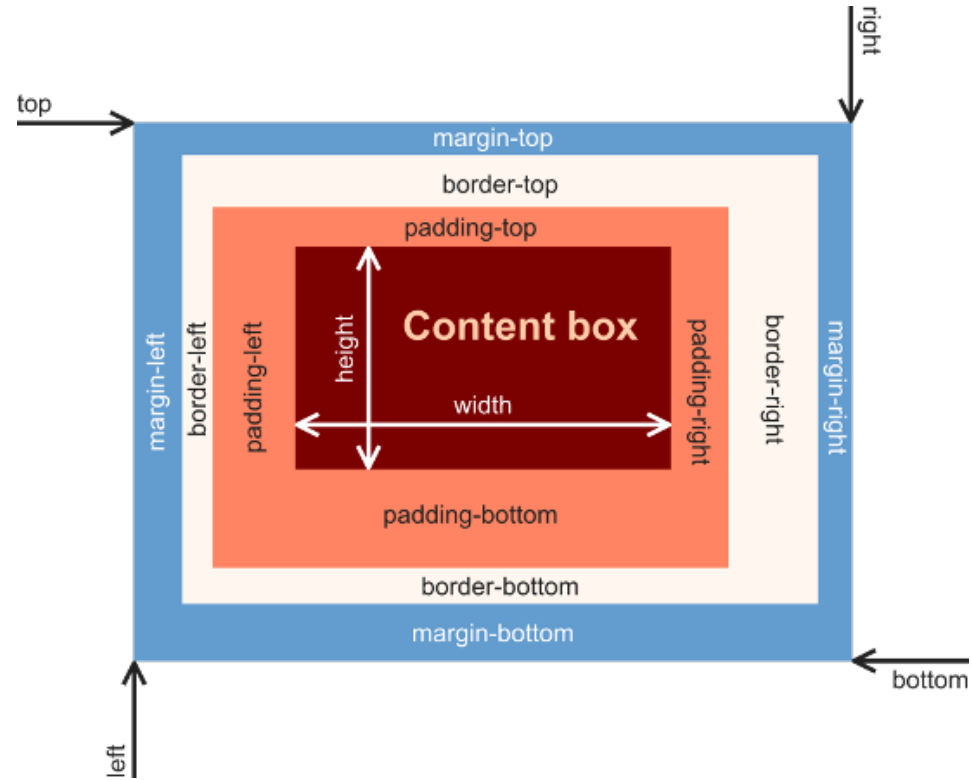
Shorthand Props

- border: 10px solid gold;
 - border-width: 10px; border-style: solid; border-color: gold;
- margin:
- padding:
- background:
- be careful they overwrite (excluded) defaults

Shorthand margin (same as padding)

- `margin: 10px;`
- `margin: 10px 20px;`
- `margin: 10px 20px 15px;`
- `margin: 10px 20px 15px 5px;`
- `margin-block: 10px;`
- `margin-inline: 20px;`

Box Model



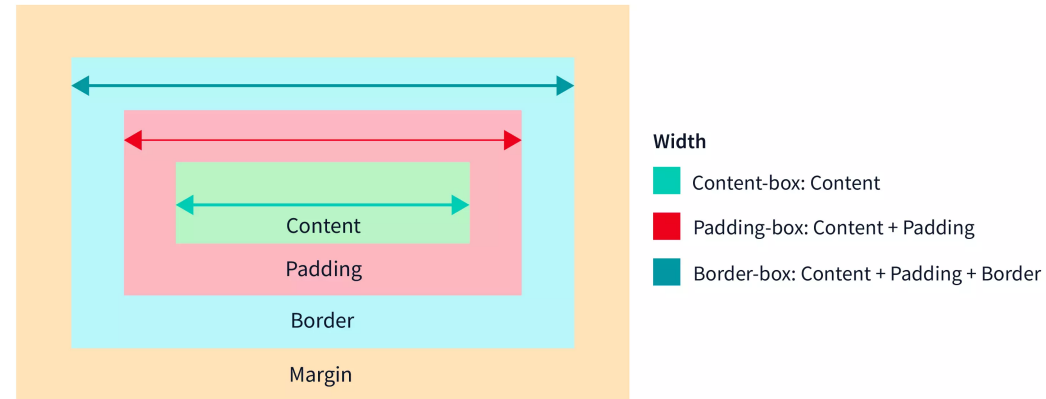
https://c-arts-modelle.de/schlaufuchs_web/html_css/css_grundstruktur/CSS_box_modell.html



Demo

Box Model

Box Sizing



SCALER
Topics

<https://www.scaler.com/topics/css/box-sizing-in-css/>

```
* { box-sizing: border-box }
```



Demo

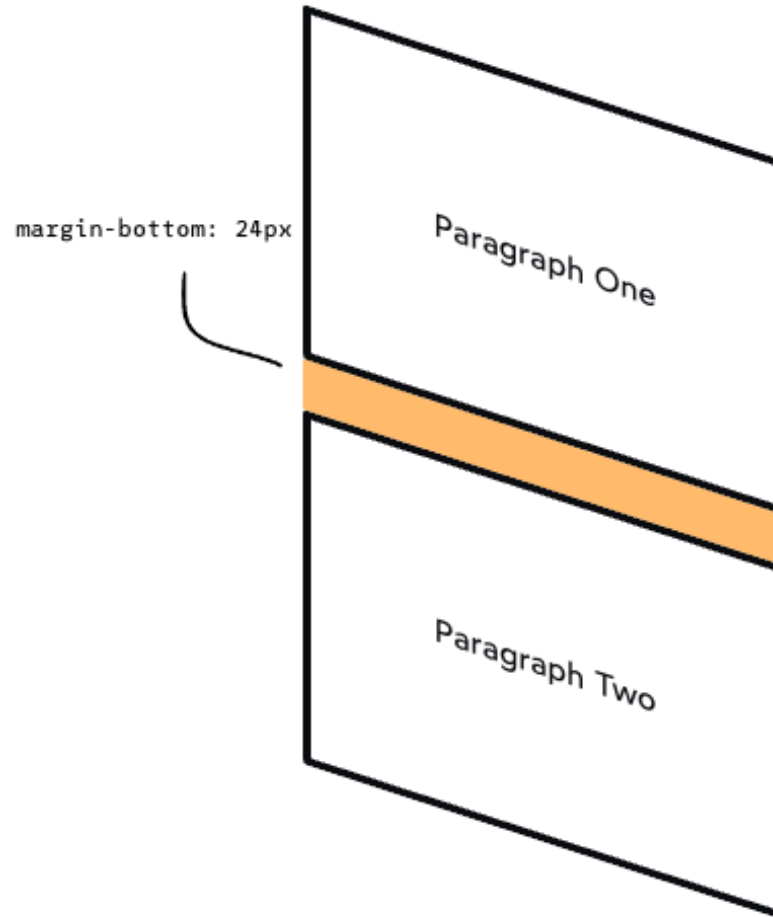
Box Model & Box Sizing

Margin Collapse

```
<style>  
  p {  
    margin-top: 24px;  
    margin-bottom: 24px;  
  }  
</style>
```

```
<p>Paragraph One</p>  
<p>Paragraph Two</p>
```

only block elements!



<https://www.joshwcomeau.com/css/rules-of-margin-collapse/>

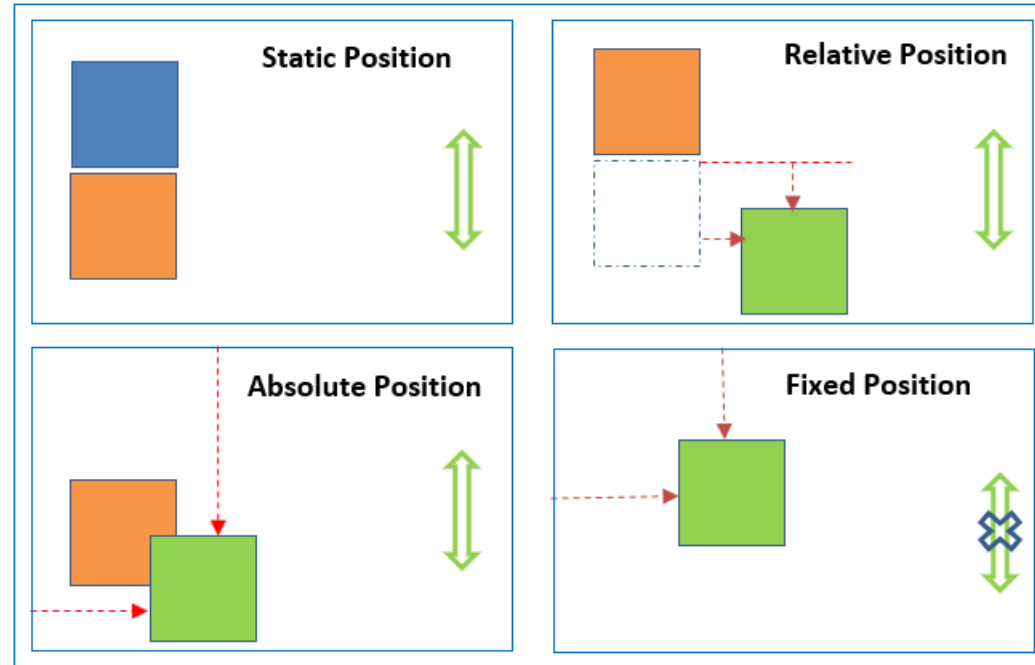
Display

- block
- inline
- inline-block
- none
- ...

<https://developer.mozilla.org/en-US/docs/Web/CSS/display>

Positioning I

- position:
 - static (default)
 - relative
 - combination with abs.
 - absolute (oof)
 - fixed (out of flow)
 - sticky
 - relative, then fixed



<https://www.csssolid.com/css-position.html>

Positioning II

- position:
 - relative | fixed | absolute | sticky
- top
- right
- bottom
- left
- z-index (the higher the value the more on top)

Width & Height

- **block elements** (div, h1-h6, ol, ul, pre, form) vs
- **inline** (span, em, strong, a, img, q, input)
- display: inline-block
- width (px or % or ...)
 - default 100% for block elements, can be reduced
 - content fit for inline, cannot be changed
- height (px or ... ?)
 - content fit for b.e., can have fixed or relative (of parent fixed) values
 - content fit for inline, cannot be changed

Pseudo classes

- a:hover
- a:active
- input:focus
- :first-child / :last-child
- :first-of-type / :last-of-type
- :not() <https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-classes>

Pseudo elements

- a::before & a::after
- p::first-letter
- div::first-line

<https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-elements>

Grouping styles

```
a::before,  
a::after {  
  // styles  
}
```

BEM syntax

.my-class__child--type

```
.block {}  
.block__element {}  
.block__element--modifier {}  
.block--modifier {}
```

<https://chettriyuvraj.hashnode.dev/bem-naming-convention-in-css>

Important properties (know by <3)

- display & position
- width & height
- margin, border, padding
- color, background-color
- font-style, font-weight, text-decoration

And some more 😊

- vertical-align: top | middle | bottom;
- border-radius: 5px | 50%;
- list-style: none;
- box-shadow: 2px 2px 2px 2px rgba(0, 0, 0, 0.5);
- float: left; ... clear: both; // but there are better options :-P
- overflow: hidden | scroll;



Demo

Properties

Best Practices

- Be careful with collapsing margins
- Use shorthands where possible
- Use box-sizing: border-box globally
- Use the BEM syntax if you want
- Know important properties by <3
- Order and group props consistently

Essentials

- Shorthands
- Box model
- Box sizing
- Display & pos.
- Width & height
- Pseudo classes
- Pseudo elements
- Grouping styles
- BEM syntax
- Important props

Summary

The background is an abstract composition. The upper portion features a bright purple sky with soft, white, cloud-like textures. Below the sky, a series of dark, thin lines radiate from a central point on the horizon, creating a perspective effect that suggests a floor or a series of architectural planes. The lower portion of the image is a solid, deep red color. The overall effect is one of depth and architectural abstraction.

Questions?