

Advanced

- Images & Background Images
- Units & Sizing
- Centering Elements
- Text & Fonts
- Forms

Agenda



Image

- width & height
 - inside a inline element → referring to the image size
 - inside a block element → referring to the block element
- position & sizing is limited
 - hacky solution is to set a negative margin
 - so we often use a image container
- but all modern browser support
 - object-fit: **fill** | cover (ratio, clipped) | contain (ratio, full image)



Image Container

- use a image container (<div>)
 - for easier position & sizing
 - display: block | inline-block
 - vertical-align as needed
 - maybe add some box-shadow to it
- also good for responsiveness (next topic)



Background Image I

- background-image: url("image.webp")
- background-position: center | 50% 50%;background-position: left top | 0% 0%;
- background-size: 100%;
- background-size: auto 100%;
- background-size: cover;
 - background-repeat: no-repeat;



Background Image II

- background: url("image.webp") left top/cover no-repeat
- but background images are bad for A11y and SEO
 - so really just use it for backgrounds, not for content!



Background Gradients

- background-image: linear-gradient(red, transparent);
- background-image: linear-gradient(to bottom, red, blue);
- background-image: linear-gradient(Odeg, red, blue);
- background-image: radial-gradient(red, transparent)
- https://elementor.com/blog/gradients-in-web-design/
- https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_images/Using_CSS_gradients



Background Gradient & Image

```
.fancy-background {
  background: linear-gradient(180deg, rgba(0,0,0,0) 0%, rgba(0,0,0,0.90) 100%),
  url('/path/image.jpg');
  color: #fff;
}
```

<div class="fancy-background"> Your gradient overlayed image </div>



https://codingforeverybody.com/snippets/css-gradient-over-a-background-image

Filters

- applied on the background / image
- filter: blur(10px);
- filter: grayscale(10%);
- https://developer.mozilla.org/en-US/docs/Web/CSS/filter



SVGs

- fill:
 - like background-color:
- stroke:
 - like border-color:
- stroke-width:
 - like border-width:
- https://dev.../.../docs/Web/SVG/Tutorial/SVG_and_CSS



Units

- -px
 - absolute, independent of user settings
- %

 - relative to containing block
 position: static / relative → block ancestor
 position: absolute → ancestor with position other than default (static)
 position: fixed → viewport
- em & rem
 - relative to font-size
- vw & vh
 - relative to viewport size
 - svh / lvh / dvh ???



Recommended Units For Sizing

- font-size
 html { font-size: 100% }
 html { font-size: 100% }
 https://adrianroselli.com/2024/03/the-ultimate-ideal-bestest-base-font-size-that-everyone-is-keeping-a-secret-especially-chet.html
 - other elemenst in rem (em just for direct children)
- margin, padding
 - rem
- border
 - px
- width & height
 - % or vw/dvh, sometimes px or rem
- top, right, bottom, left
 - % or rem



Horizontally Centering Elements

- margin-inline: auto; for block elements
- text-align: center; for inline elements
- flex or grid (will be covered in detail in chapter 06)

```
.flex-center {
    display: flex;
    justify-content: center;
    align-items: center;
}
```

```
.grid-container {
    display: grid;
    place-content: center;
}
```

Vertically Centering Elements

– old-fashioned:

- modern:

```
.container {
   display: flex;
   align-items: center;
}
```

```
.parent {
  position: relative; height: 400px;
}
.child {
  position: absolute;
  top: 50%; left: 50%;
  transform: translate(-50%, -50%);
}
```

```
.container {
   display: grid;
   place-items: center;
}
```

Text & Fonts

- Font-families
 - generic as fallback
 - Google Font!?
 - use a common font or
 - include the font in your NG project (@font-face) using .woff2 as format

Font styling

- font-size, font-weight, font-style
- line-height, letter-spacing, white-space
- text-decoration, text-shadow
- white-space: no-wrap; overflow: hidden; text-overflow: ellipsis



Forms

- Form fields have default styling
 - which we tend to overwrite
- Provide a good form UX
 - Using :focus with border-color / outline
 - And .is-invalid with (red) border-color / outline

Best Practices

- position & size images containers/object-fit
- avoid background-images for content
- use apropriate units & centering
- if at all include font as .woff2 via @font-face
- add user feedback (UX) to your forms





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Summary



