



Becoming Full Stack Engineer

An event for women by women



2. CSS

Presented by

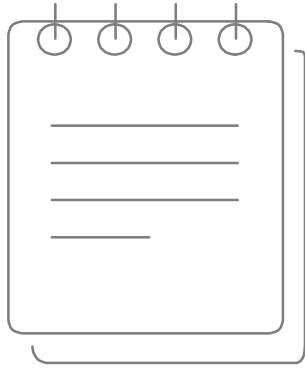
Iliana Carrasquedo

Definition

CSS stands for Cascading Style Sheets and provides HTML with layout and design. Along with making things pretty and aesthetically pleasing, CSS also provides a general structure to HTML.

Properties:

- ▶ Color
- ▶ Font-family
- ▶ Font-size
- ▶ Font-style
- ▶ Width
- ▶ Height
- ▶ Background
- ▶ Position
- ▶ Margin
- ▶ Display
- ▶ Padding



CSS conventions

CSS conventions can be broadly broken down into two key areas: coding style and naming conventions.

Multi-line
CSS

Ordering
declarations

Naming
conventions

Multi-line CSS



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```
h1 {  
  font-family: Georgia;  
  color: green;  
  line-height: 1.3;  
}
```

Ordering declarations

1. Position
2. Display and box model
3. Font and typography
4. Color
5. Background and borders

Naming Conventions

Subtitle here



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```
.bigLeftCol { ...  
}  
.littleRightCol { ...  
}
```



```
.primary-content { ...  
}  
.secondary-content { ...  
}
```

Naming conventions in CSS, refers to class or ID names as opposed to the name of a file.

Class names should be descriptive and semantic, they should describe your content and not the presentation.

CSS Selectors



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```
/* Type */  
p { ...  
}  
/* ID */  
#content { ...  
}  
/* Class */  
.blog { ...  
}  
/* Link pseudo-class */  
a:hover { ...  
}  
/* Universal */  
* { ...  
}  
/* Child combinator */  
h2 > p { ...  
}
```

Using selectors, we can target elements at an even more granular level than we've been able to previously.

This means that the markup can be super slim, semantic, and flexible.

What's more, the element states pseudo-classes allow for additional highlighting of dynamic state changes.

CSS Combinators

```
p { ...  
}
```

Descendant

combinators allow you to target all instances of a single element type that lie within another.

```
article > p { ...  
}
```

Child combinators, in contrast, target only those elements that are immediate children of the parent

```
h2 + p { ...  
}
```

Adjacent sibling combinators, targets elements that are next to each other in the document tree and have the same parent.

```
h3 ~ ul { ...  
}
```

General sibling combinator. When using the general sibling combinator, the second selector doesn't have to immediately follow the first; however, both parts of the selector must still share the same parent.

CSS At-rules

An at-rule is a CSS declaration that begins with the at symbol, '@', followed by an identifier, and includes all content up to the following semicolon, ';'

@charset: Defines the character set used by the style sheet.

@import: Tells the CSS engine that it includes an external style sheet

@media: A conditional rule that will apply if the device meets the criteria.

@keyframes: Describes step configuration in CSS animation.

CSS At-rules

@import:

```
@import url("chrome://communicator/skin/");
```

@media:

```
@media screen {
  body { font-size: 13px; }
}
```

```
@media screen and (min-width: 900px) {
  article {
    padding: 1rem 3rem;
  }
}
```

@keyframes:

```
@keyframes slidein {
  from {
    transform: translateX(0%);
  }

  to {
    transform: translateX(100%);
  }
}
```

CSS Variables

You assign a commonly used value to a variable in one place, then use the variable in your CSS in place of the value. If you need to change the value, you only need to change the variable definition.

Global Scope

The `:root` selector matches the document root element.

```
:root {  
  --blue: #1e90ff;  
  --white: #ffffff;  
}
```

Syntax

The `var()` function is used to insert the value of a CSS variable.

```
color: var(--blue);
```

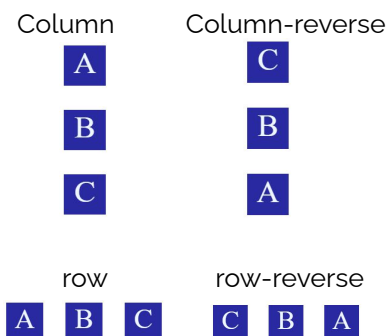
Advantages.

- makes the code easier to read (more understandable)
- makes it much easier to change the color values

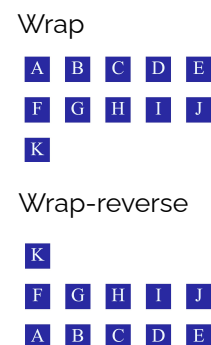
CSS Flexbox

The CSS flex property is a summary property that indicates the ability of a flexible element to alter its dimensions and fill the available space.

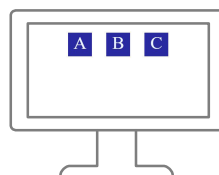
Flex-direction



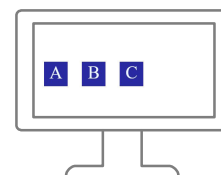
Flex-wrap



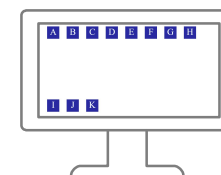
Justify-content



Align-items



Align-content

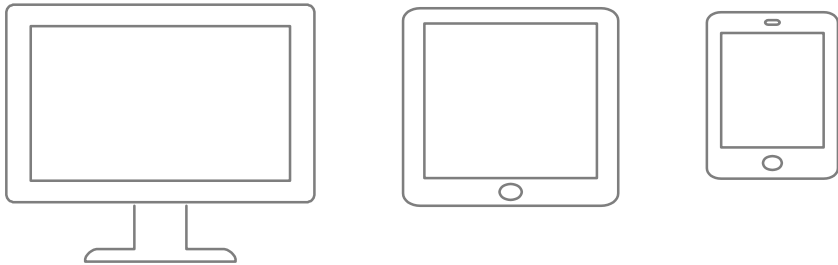


Responsive Design



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Responsive web design is an approach that allows design across various devices (mobile, desktop, tablet, etc.) and suggests design should respond to the user's behavior based on screen size, platform and orientation.

More information about responsive design:

[Responsive Web Design Certification | freeCodeCamp.org](https://www.freecodecamp.org/certification/responsive-web-design)



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Exercise



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Engineering is a remarkable and extraordinary profession that encompasses a wide range of disciplines, from the oldest, military and civil engineering feats, to mechanical, electrical, electronic, and chemical engineering, as well as more recently emerging fields like environmental engineering mechatronics (combining mechanical and electronics), biomedical, biochemical, and others yet to be named.

UNESCO has declared Thursday, March 4, 2021, as World Engineering Day for sustainable development. The day provides an opportunity to recognize engineers' and engineering's contributions to our modern world and increase public awareness of how engineering and technology are essential to everyday living and sustainable development. This day provides the opportunity to promote engineering as a vocation while emphasizing how engineering can improve the world. Engineers all across the globe have made significant progress in supporting the SDGs and improving engineering capacity for the SDGs, guided by the 2030 Agenda for Sustainable Development.

At ITJ, we are proud to equip the bright engineers in our company with the right tools to successfully develop plans that will enable our customers to build centers of excellence in the Cali Baja region. From developing boot camps with the mission of offering mentorship and career development to young men and women to hosting Hackathons and Tech Talks. So many young IT professionals and students from different states of Mexico and Latin America have been attending these immersive events and benefited themselves.

We want to continue to impulse the essential work engineers must do to secure a better future.

About ITJ

ITJ is devoted to serving fast-growing, high-value market sectors that contribute to the growth of the Cali Baja region. With a Nearshore model, working with the highest quality software engineers, data scientists, and creative designers from across Mexico and Latin America, ITJ enables companies to create world-class software engineering centers of excellence in Tijuana, MX.





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Thank You

Any questions?

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