

Fundamentos HTML & CSS



KEEPCODING
Tech School



JavaScript developer, enthusiastic about web development, testing, and knowledge sharing. Senior developer at **IskayPet**, frontend/NodeJS instructor, Cypress ambassador and tech speaker.

IskayPet
all about petcare

B R I K E V 



The Cypress.io logo, featuring the word "cypress.io" in white lowercase letters on a dark blue background. The "c" is inside a white circle. A thin green horizontal line is positioned below the text.

cypress.io

Spain

Cypress Official meetup
`cy.contains("nice people")`

https://twitter.com/cypress_es

<https://www.meetup.com/es-ES/cypress-spain/>

Requisitos

- VSCode
- Live server extension
- Git







web 101



Frontend development



Front-end web development is the development of the graphical user interface of a website, through the use of HTML, CSS, and JavaScript, so that users can view and interact with that website

**Only 3 tools, then it's
easier 🤔**



·Tech Notes· ·Animation Sketches· ·Behind-the-Scenes Footage·

CHARACTER DEVELOPMENT

As if the Looney Tunes didn't have enough troubles, Warner Bros. Feature Animation created a whole new set of bad guys to give them a hard time. Here's how they came to life.

| [BUPKUS](#) | [NADA](#) | [NULL](#) | [VOID](#) | [ZILCH](#) |

BUPKUS



Search game title

Collections

All

Most popular

Recently added

Coming soon

Leaving soon

Optimized for Xbox Series X|S

Bethesda Softworks

EA Play

ID@Xbox

Family friendly

Games to conquer your resolutions

Play day one

Heroes and villains

Filters

CLEAR FILTERS

Play on

Console games

Viewing 1-20 of 364 results

Action & Adventure X

CLEAR FILTERS

PC games

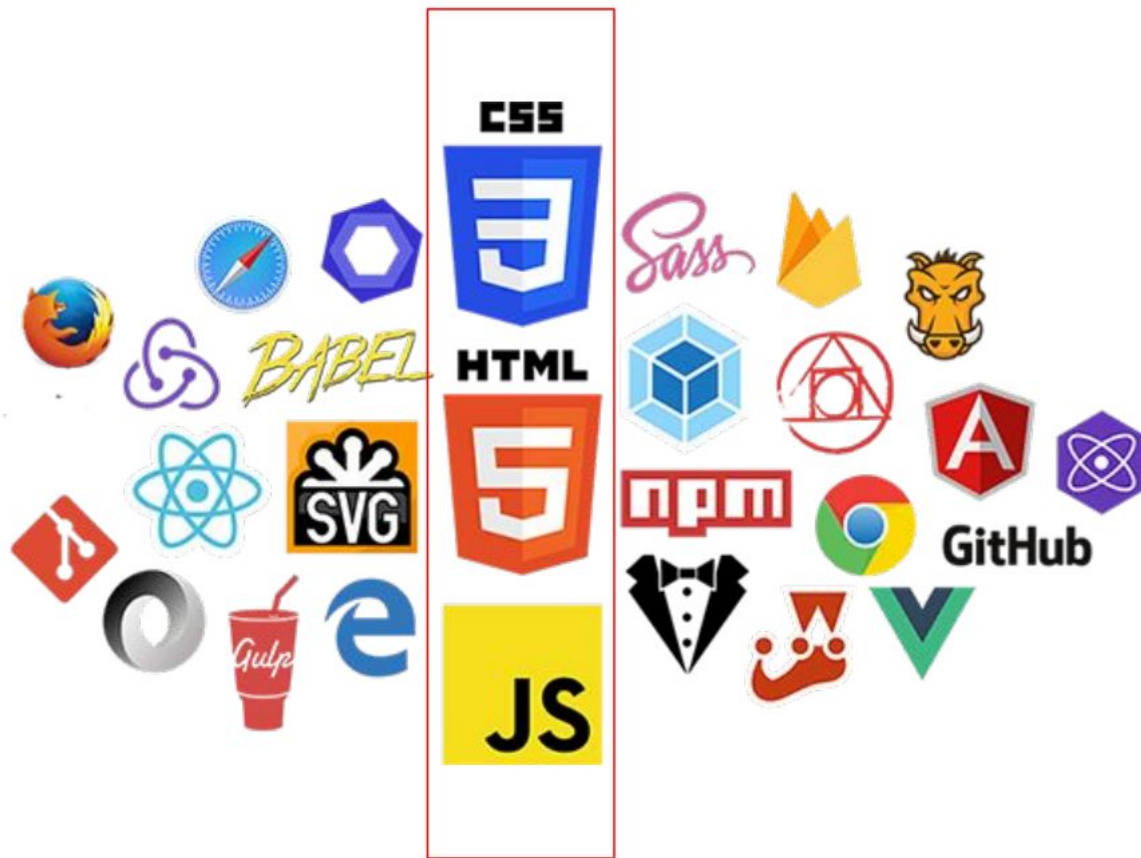
Sort: **Newest** v

TUNIC

Tom Clancy's Rainbow
Six® Siege Deluxe
EditionMarvel's Guardians of
the Galaxy

Paradise Killer







Frontend development?



Frontend development?

- Good salary
- Good schedule
- Remote work
- Creative job
- Good community
- It's always evolving



Tips





Tips



- Practice
- Patience
- Don't be afraid to ask
- Take a break
- Be proud of your progress
- Patience
- Don't be afraid to fail



HTML



HTML (HyperText Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content.

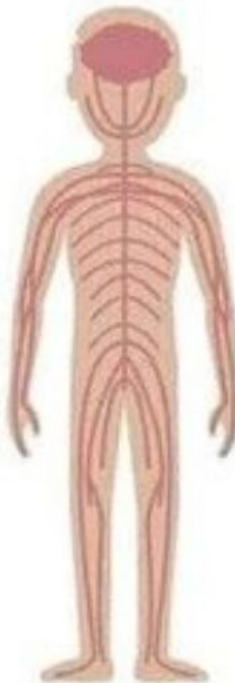




Other technologies besides HTML are generally used to describe a web page's appearance/presentation (CSS) or functionality/behavior (JavaScript).

HTML

JS

CSS





HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as `<head>`, `<title>`, `<body>`, `<header>`, `<footer>`, `<article>`, `<section>`, `<p>`, `<div>`, ``, ``, `<aside>`, `<audio>`, `<canvas>`, `<datalist>`, `<details>`, `<embed>`, `<nav>`, `<output>`, `<progress>`, `<video>`, ``, ``, `` and many others.



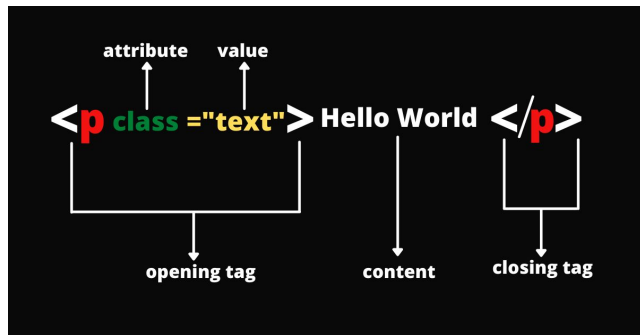
How are we going to work?





Basic tags

Paired





Unpaired

```
<hr>  
<hr />
```



basic structure

- `<!DOCTYPE html>` — doctype. It is a required preamble. They don't do much and are basically just needed to make sure your document behaves correctly.
- `<html></html>` Root element
- `<head></head>` This element acts as a container for all the stuff you want to include on the HTML page that isn't the content you are showing to your page's viewers. This includes things like keywords and a page description that you want to appear in search results, CSS to style our content, character set declarations, and more.
- `<body></body>` This contains all the content that you want to show to web users when they visit your page

head





```
<meta charset="UTF-8">  
<meta http-equiv="X-UA-Compatible" content="IE=edge">  
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```



`<meta charset="utf-8">` — This element sets the character set your document should use to UTF-8 which includes most characters from the vast majority of written languages.

`<title></title>` This sets the title of your page.

`<meta http-equiv="X-UA-Compatible" content="IE=edge">`



```
<meta charset="UTF-8">  
<meta http-equiv="X-UA-Compatible" content="IE=edge">  
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```



Anime finder

formulario

▼ Animes en emision

Detective conan

Full metal

Kill la kill

Shingeky no kiokin

Show List



Anime finder

formulario

▼ Animes en emision

Detective conan

Full metal

Kill la kill

Shingeky no kiokin

Show List



Attack on Titan
Season 3 Part 2



Sakura Quest



FLCL



FLCL

anime finder inc.



[https://gist.github.com/
ancejpollard/1978404](https://gist.github.com/ancejpollard/1978404)



headings



emmet

<https://docs.emmet.io/cheat-sheet/>



Paragraphs / texts



nested tags



Block / inline-block

<div>

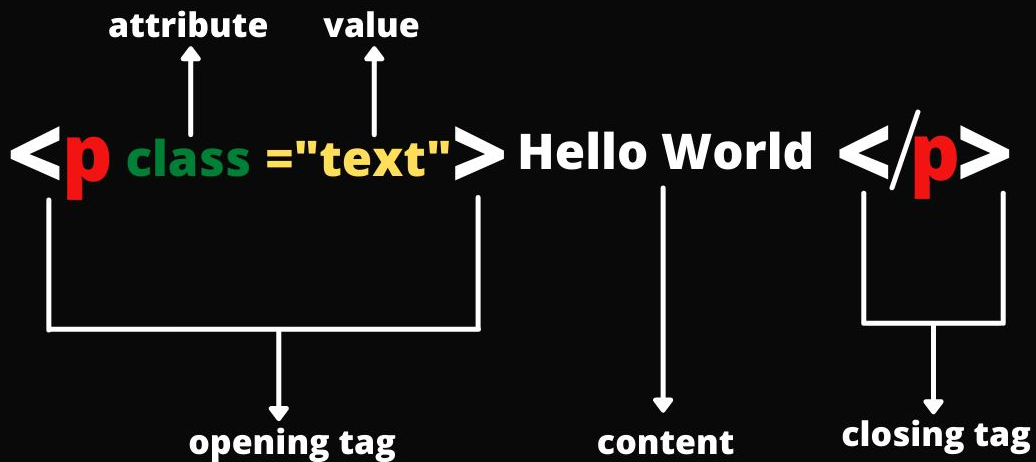
The tag defines a division or a section in an HTML document



Lists



Attributes





Links



```
<a href="mailto:keepcoding@test.com">keepcoding</a>  
<a href="tel:+123123441">123123441</a>  
<a href="https://external-resource.com" target="_blank" rel="noopener noreferrer"  
>Algo externo</a>
```



https://developer.mozilla.org/en-US/docs/Web/HTML/Link_types



Images / video / iframes

Tables 🙄



```
<td colspan="2" rowspan="2">
```

```
<td colspan="3">
```

```
<td rowspan="2">
```



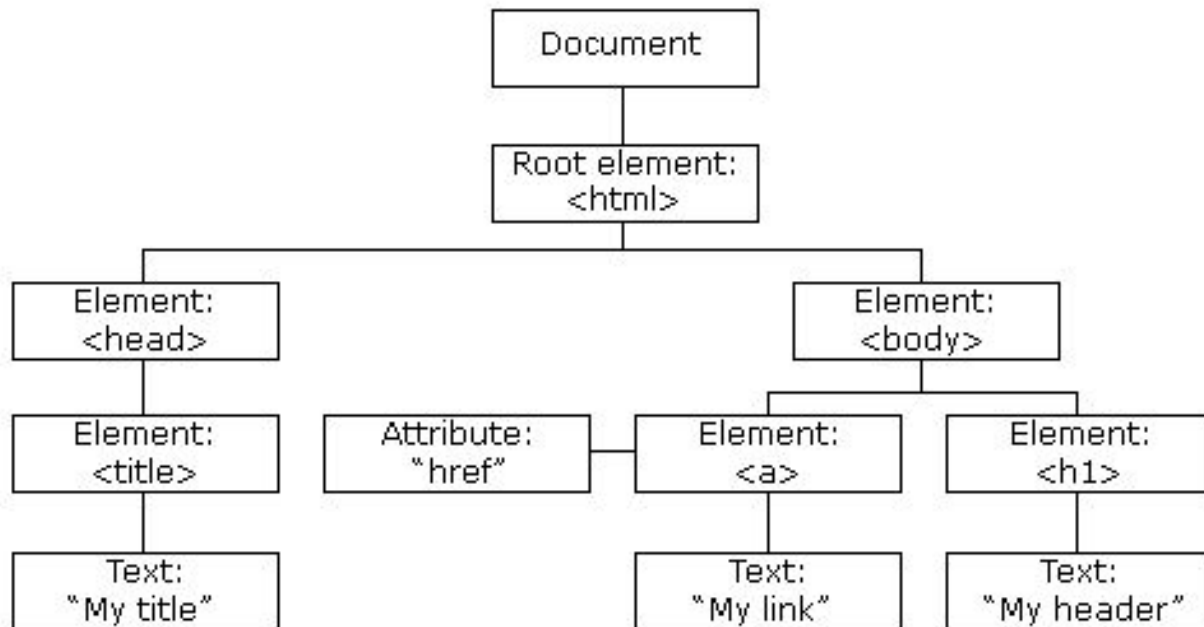
<https://github.com/mailchimp/email-blueprints>



DOM Tree

When a web page is loaded, the browser creates a **D**ocument **O**bject **M**odel of the page.

The HTML **DOM** model is constructed as a tree of Objects.







Semantic HTML

Semantic HTML benefits



- Search engines will consider its contents as important keywords to influence the page's search rankings (see SEO)
- Screen readers can use it as a signpost to help visually impaired users navigate a page
- Finding blocks of meaningful code is significantly easier than searching through endless divs with or without semantic or namespaced classes
- Suggests to the developer the type of data that will be populated

```
<div class="main">
  <div class="section">
    <div>
      <div class="list-item">List item</div>
      <div class="list-item">List item</div>
      <div class="list-item">List item</div>
      <div class="list-item">List item</div>
    </div>
  </div>
  <div class="section">
    <div class="image">
    </div>
  </div>
</div>
```



This will render it to look like a top level heading, but it has no semantic value, so it will not get any extra benefits as described above. It is therefore a good idea to use the right HTML element for the right job.

```
<main class="main">
  <section class="section">
    <ul>
      <li class="list-item">List item</li>
      <li class="list-item">List item</li>
      <li class="list-item">List item</li>
      <li class="list-item">List item</li>
    </ul>
  </section>
  <section class="section">
    
  </section>
</main>
```





HTML should be coded to represent the data that will be populated and not based on its default presentation styling. Presentation (how it should look), is the sole responsibility of CSS.


```
10 <table width="100%">
11   <tr>
12     <td>This</td>
13     <td>is</td>
14   </tr>
15   <tr>
16     <td>bad</td>
17     <td>layout?</td>
18   </tr>
19 </table>
```

```
21 <div class="container-fluid">
22   <div class="row">
23     <div class="col-md-6">But</div>
24     <div class="col-md-6">this</div>
25   </div>
26   <div class="row">
27     <div class="col-md-6">is</div>
28     <div class="col-md-6">ok?</div>
29   </div>
30 </div>
```



HTML forms





The HTML `<form>` element is used to create an HTML form for user input



forms attributes





forms elements



Inside a form we can include any element we want. Normally we will see `<input>`, `<div>`, `<label>` and `<button>`





Form validation



We can use some input attributes as restrictions
to validate the forms

Attribute	Description
checked	Specifies that an input field should be pre-selected when the page loads (for type="checkbox" or type="radio")
disabled	Specifies that an input field should be disabled
max	Specifies the maximum value for an input field
maxlength	Specifies the maximum number of character for an input field
min	Specifies the minimum value for an input field

Attribute	Description
pattern	Specifies a regular expression to check the input value against
readonly	Specifies that an input field is read only (cannot be changed)
required	Specifies that an input field is required (must be filled out)
size	Specifies the width (in characters) of an input field
step	Specifies the legal number intervals for an input field



Attribute	Description
value	value
data-*	Custom Attributes that we can use in our javascript code



Browser support



<https://caniuse.com/>



Goodbye, Internet Explorer 11!

Internet Explorer is finally dead and has been dead for

<https://death-to-ie11.com/>









Open graph tags

```
<meta property="og:image"
content="https://developer.mozilla.org/static/img/opengraph-logo.png">
<meta property="og:description" content="The Mozilla Developer Network (MDN)
provides
information about Open Web technologies including HTML, CSS, and APIs for both Web
sites
and HTML5 Apps. It also documents Mozilla products, like Firefox OS.">
<meta property="og:title" content="Mozilla Developer Network">
```



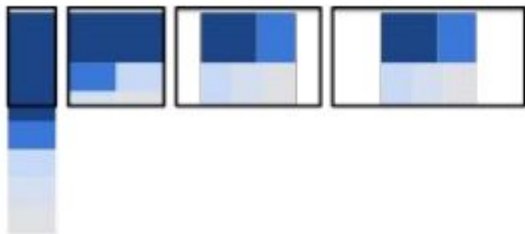
Responsive design



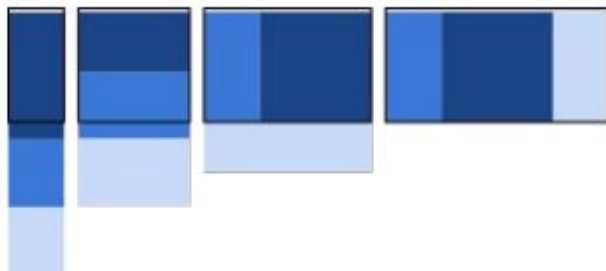
Set of practices that allows web pages to alter their layout and appearance to suit different screen widths, resolutions, etc



Mostly Fluid



Column drop



Off canvas



Layout shifter





Tiny tweaks



<https://web.dev/learn/design/>



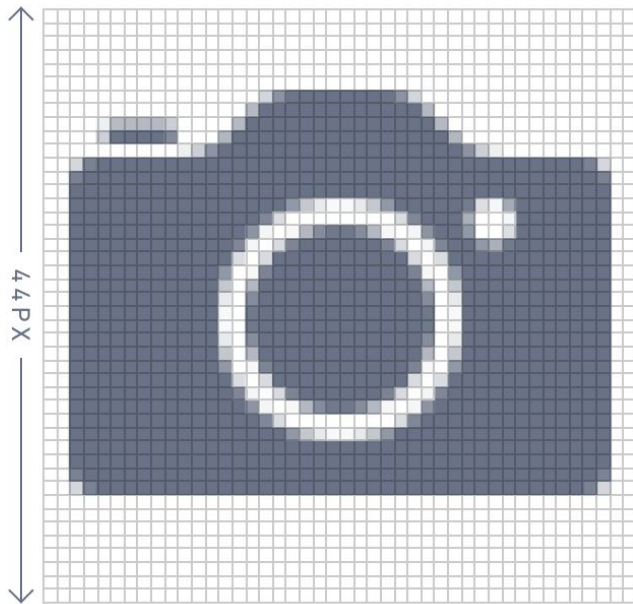
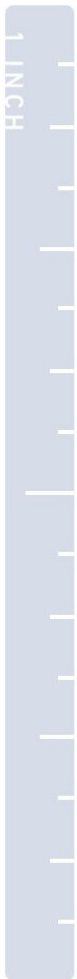
Responsive images



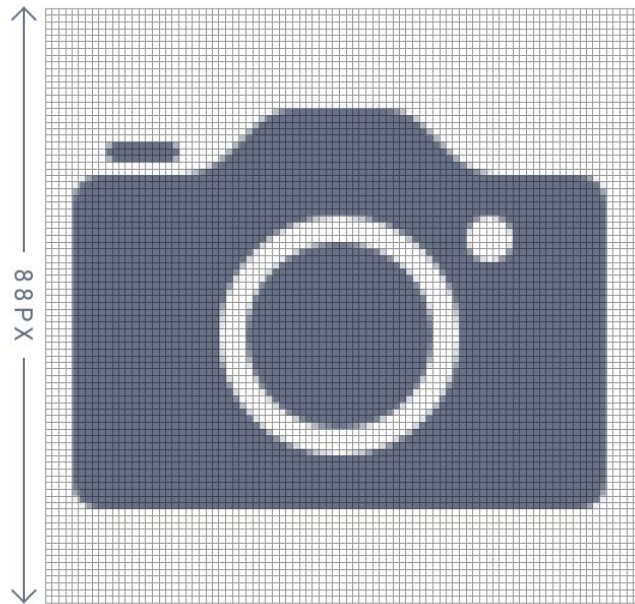
<picture><source>



srcset



Pre-Retina Display (1x)



Retina Display (2x)



—————→ Increasing Dots Per Inch —————→



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<https://www.linkedin.com/in/kevinjmartinez/>

<https://twitter.com/kevinccbsg>

<https://www.meetup.com/es-ES/cypress-spain/>

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CSS



CSS is a language for specifying how documents are presented to users — how they are styled, laid out, etc.



CSS Syntax

CSS syntax

1. Selector

What are you selecting? What element do you want to apply CSS to e.g. H1.

`h1 {`

`color: red;`

2. Property

*What's the property?
What are you trying to change?
E.g. 'color'*

3. Value

*What's the value?
Properties have specific values that are applicable e.g. red.*





How to use it?



How to use it?

- Inline styles (not recommended)
- `<head><style></style></head>` tag
- External files `<link />`



CSS basic



Selectors

`p { }`

`#id { }`

`.class { }`

`* { }`

`[attribute] { }`



colors



Sistemas de colores

- names
- `rgb()` -red, green, blue
- hexadecimal (#)
- `hsl()`

Transparencia canal alfa entre 0 (transparente) y 1 (opaco)

- `rgba()`
- `hsla()`
- Opacity



font properties

- font-style
- font-weight
- font-size
- font
- text-decoration
- text-transform
- line-height
- text-align

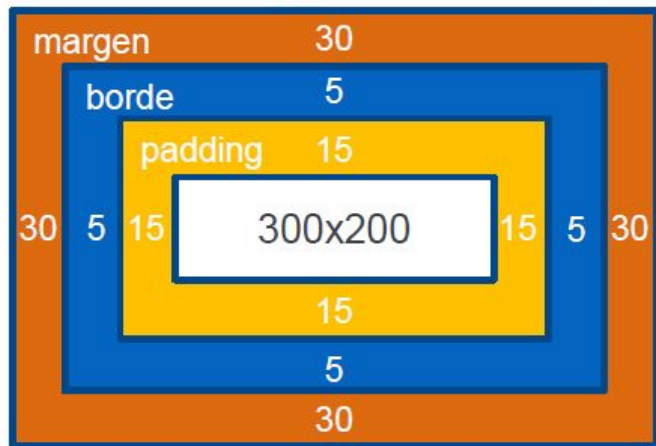
font sizes

- Absolutes
 - px
 - cm
 - in
 - pt. $1\text{pt} = 1/72\text{in}$
- Relatives
 - em
 - rem
 - vw
 - vh
 - %

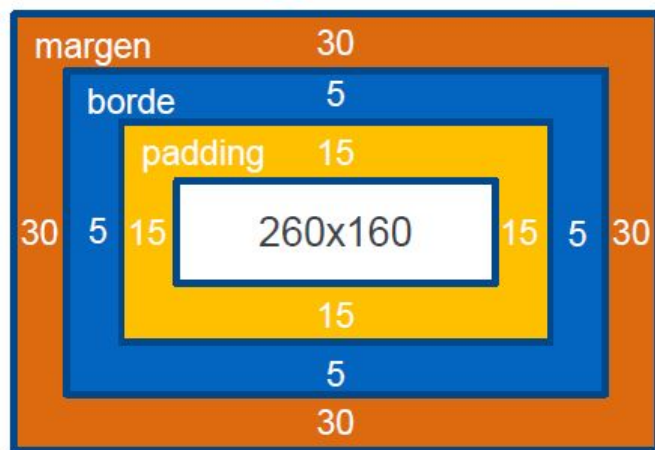


box model

`box-sizing: content-box;`



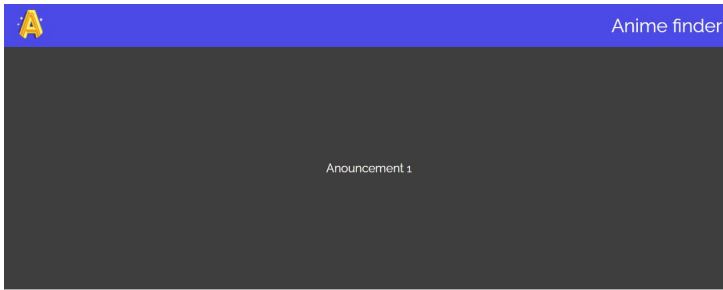
`box-sizing: border-box;`



```
.container {  
  width: 300px;  
  height: 200px;  
  padding: 15px;  
  border: 5px solid gray;  
  margin: 30px;  
}
```



anime finder



find your favorite anime

Genres

action

Search

search favorite anime

search

▼ Animes en
emision

Detective conan
Full metal
Kill ta Kill
shingeky no
kiojin



Attack on Titan Season
3 Part 2



Steins;Gate



FLCL



THE END OF
EVANGELION



K-ON!!



Demon Slayer: Kimetsu
no Yaiba

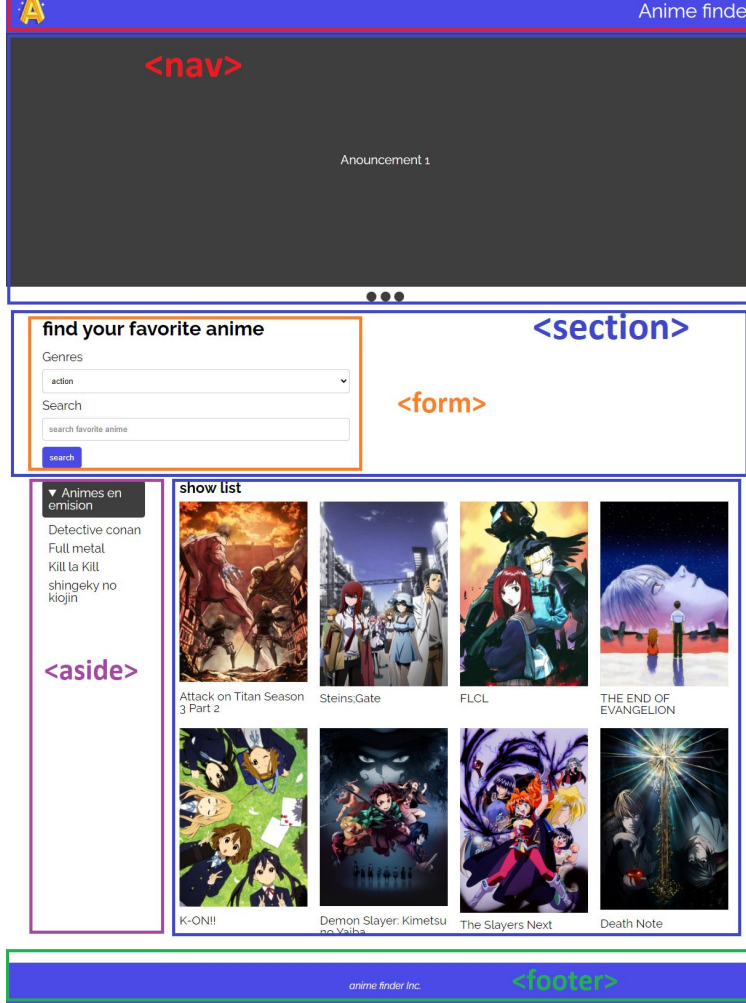


The Slayers Next



Death Note

anime finder inc.



show list

<article>



Attack on Titan Season 3
Part 2



Steins;Gate

<figcaption>

anime finder Inc.

<footer>

variables

```
element {  
  --main-bg-color: brown;  
}
```

```
:root {  
  --main-bg-color: brown;  
}
```




display

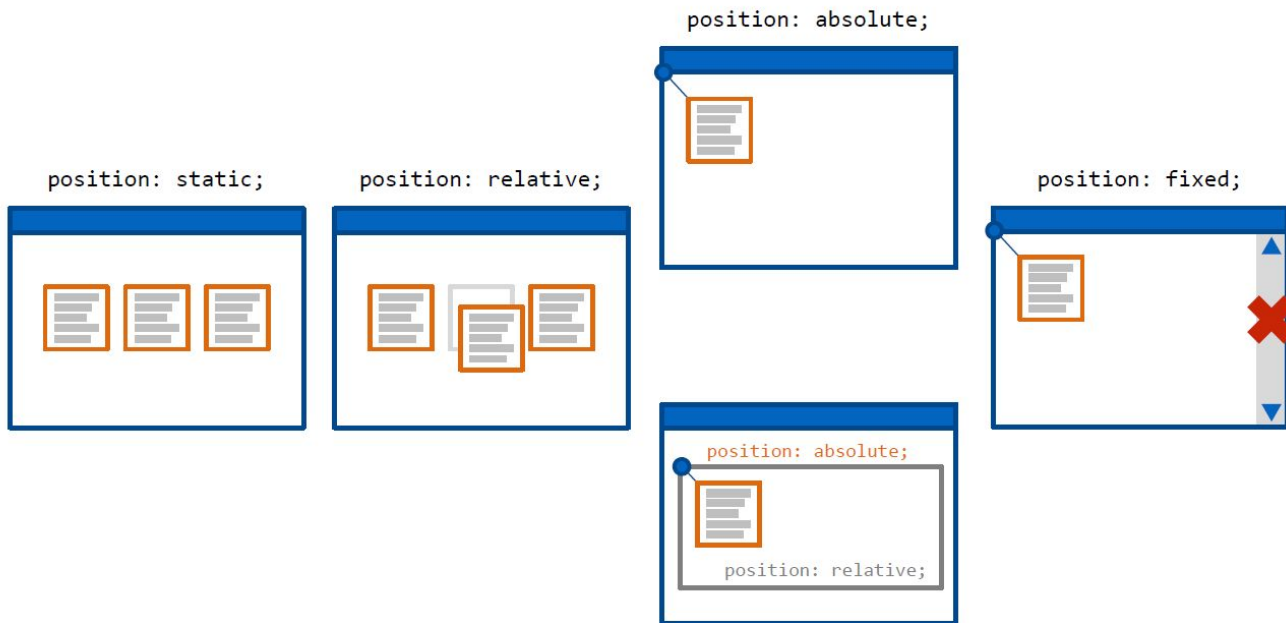
- block
- inline-block
- none



Anime finder

position

- absolute
- fixed
- static
- relative





Flexbox

<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

find your favorite anime

Genres

action



Search

search favorite anime

search

<form>





fonts





media queries



Media queries are useful when you want to modify your site or app depending on a device's general type (such as print vs. screen) or specific characteristics and parameters (such as screen resolution or browser viewport width).

media queries

- type

```
@media screen, print { ... }
```

- features

```
@media (max-width: 12450px) { ... }
```

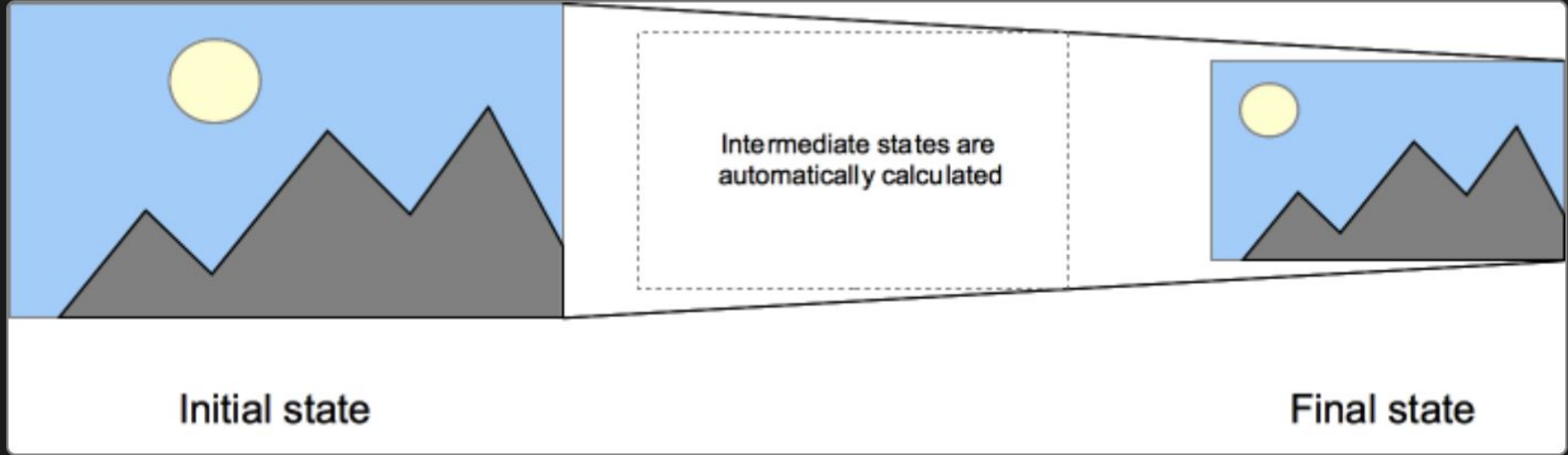


Grid

<https://css-tricks.com/snippets/css/complete-guide-grid/>



Transitions



```
#delay {  
    font-size: 14px;  
    transition-property: font-size;  
    transition-duration: 4s;  
    transition-delay: 2s;  
}  
  
#delay:hover {  
    font-size: 36px;  
}
```



<https://matthewlein.com/tools/ceaser>



animations




An animation lets an element gradually change from one style to another.

You can change as many CSS properties you want, as many times as you want.


To use CSS animation, you must first specify some keyframes for the animation.

Keyframes hold what styles the element will have at certain times.



```
/* The animation code */  
@keyframes example {  
  from {background-color: red;}  
  to {background-color: yellow;}  
}
```

```
/* The element to apply the animation to */  
div {  
  width: 100px;  
  height: 100px;  
  background-color: red;  
  animation-name: example;  
  animation-duration: 4s;  
}
```





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<https://twitter.com/kevinccbsg>

<https://www.meetup.com/es-ES/cypress-spain/>