

# Fundamentos HTML & CSS



**KEEPCODING**  
Tech School



JavaScript developer, enthusiastic about web development, testing, and knowledge sharing. Team lead at **DCSL Guidesmiths**, frontend/NodeJS instructor, Cypress ambassador and tech speaker.



B R I K E V 



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

# cypress.io

# Spain

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

[https://twitter.com/cypress\\_es](https://twitter.com/cypress_es)

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

# Requisitos

- VSCode
- Live server extension
- Git

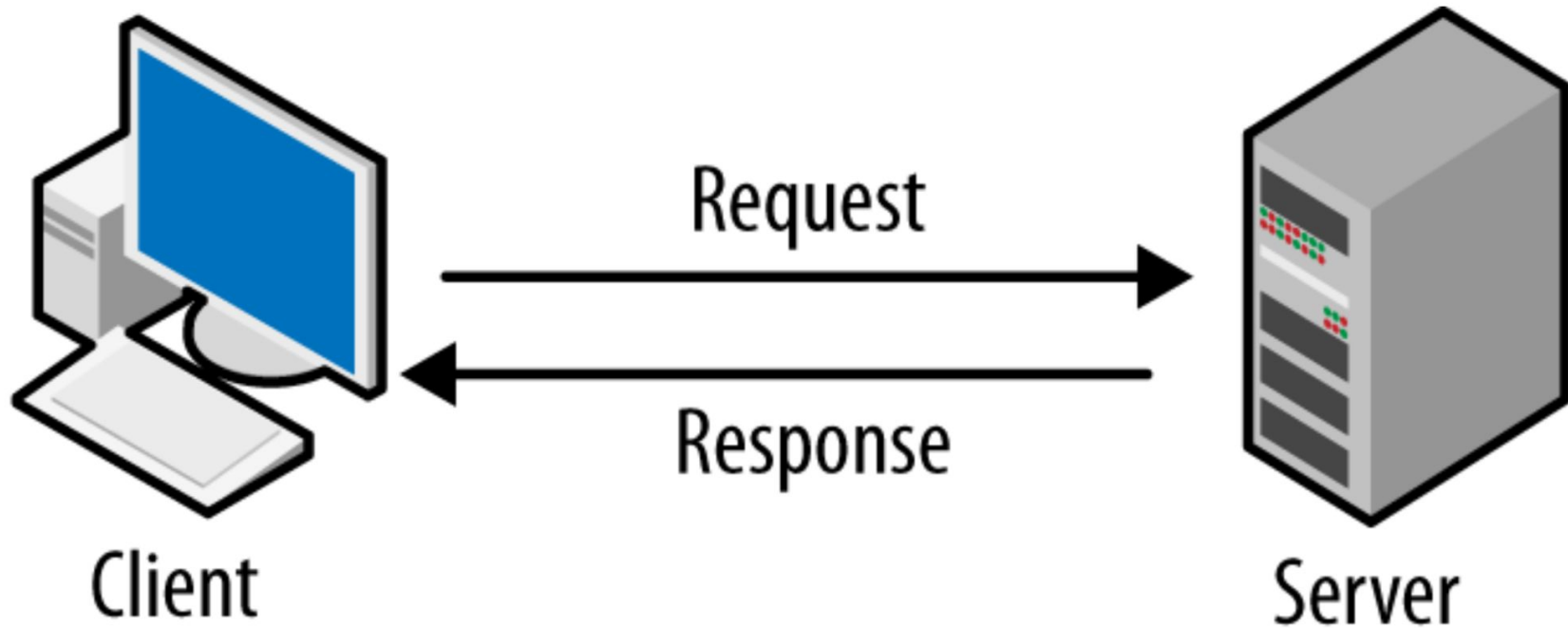




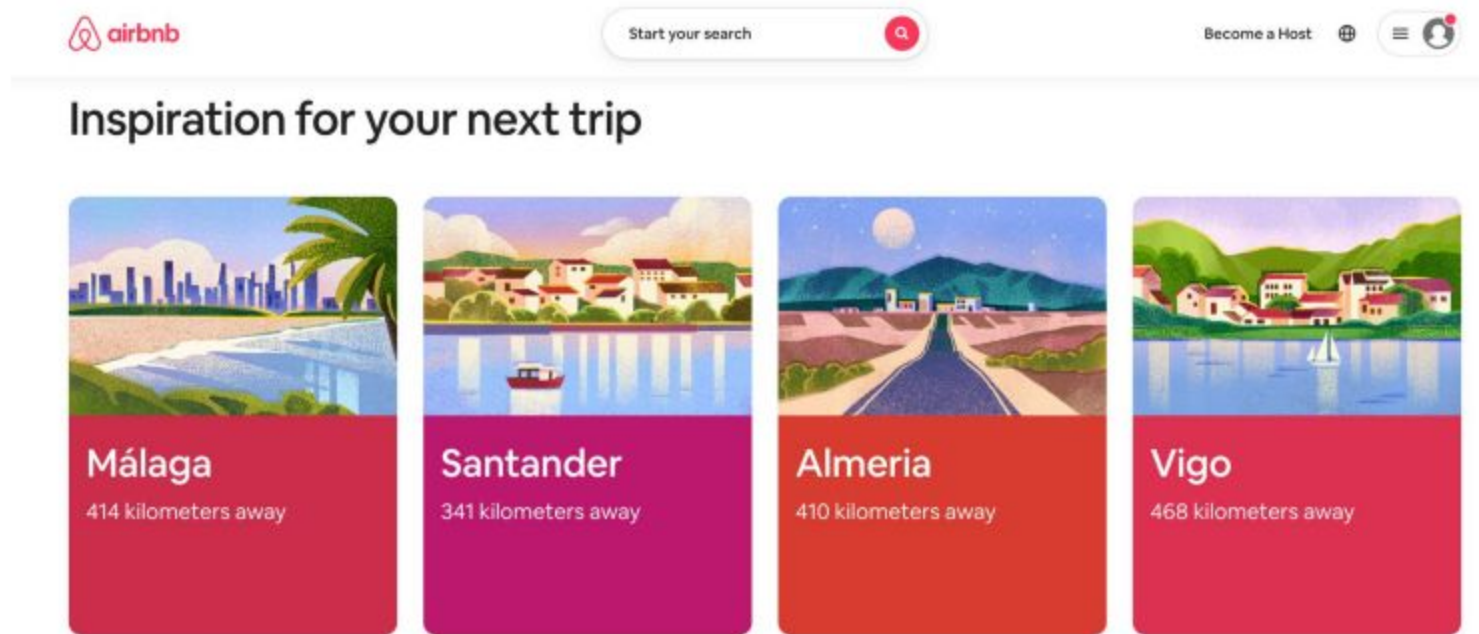
# web 101



# Client Server

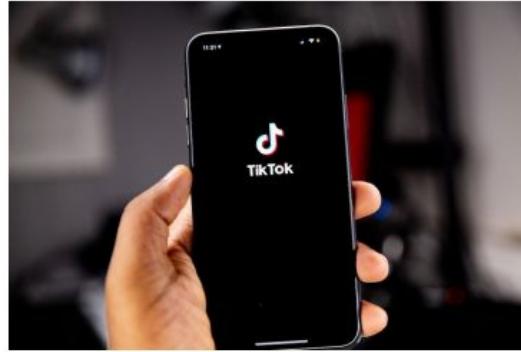


# Clients





# Clients

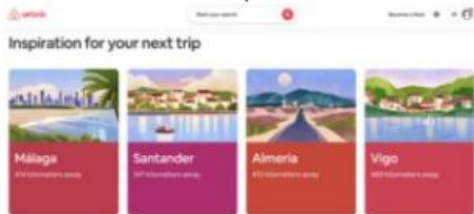


# Servers







Internet





# 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 &amp; 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.



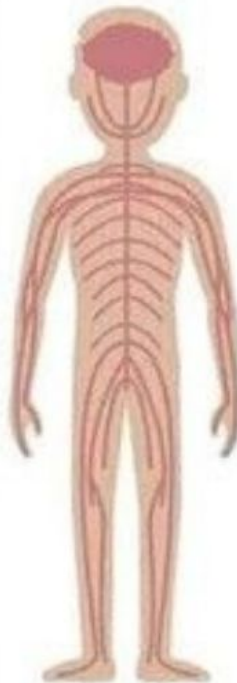




Other technologies besides HTML are generally used to describe a web page's appearance/presentation (CSS) or functionality/behavior (JavaScript).

HTML

JS

CSS

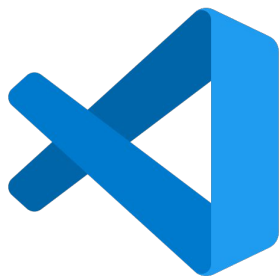




HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as `<head>`, `<title>`, `<body>`, `<header>`, `<footer>`, `<article>`, `<section>`, `<p>`, `<div>`, `<span>`, `<img>`, `<aside>`, `<audio>`, `<canvas>`, `<datalist>`,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



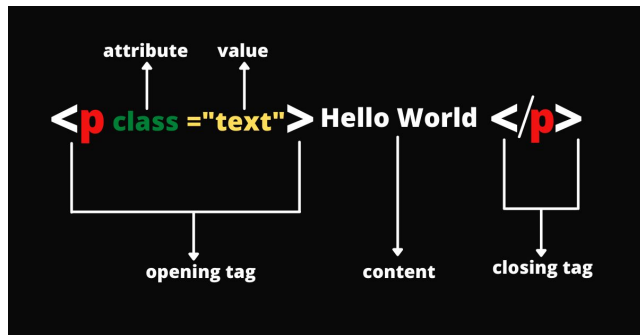
# How are we going to work?





# 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



F.L.C.L.



F.L.C.L.

anime finder inc.



<https://gist.github.com/ancejpollard/1978404>



# headings



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





# Paragraphs / texts



# nested tags



# Block / inline-block

# <div>

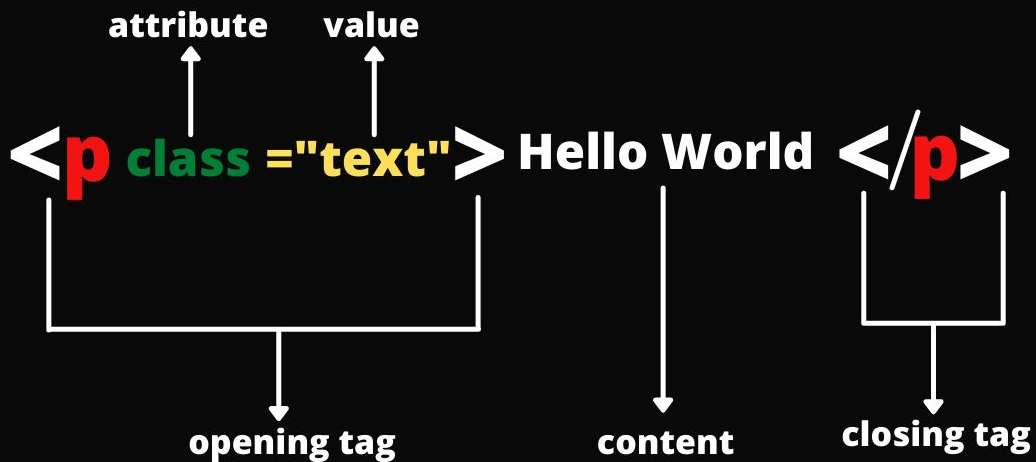
The tag defines a division or a section in an HTML document



# 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](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">
```



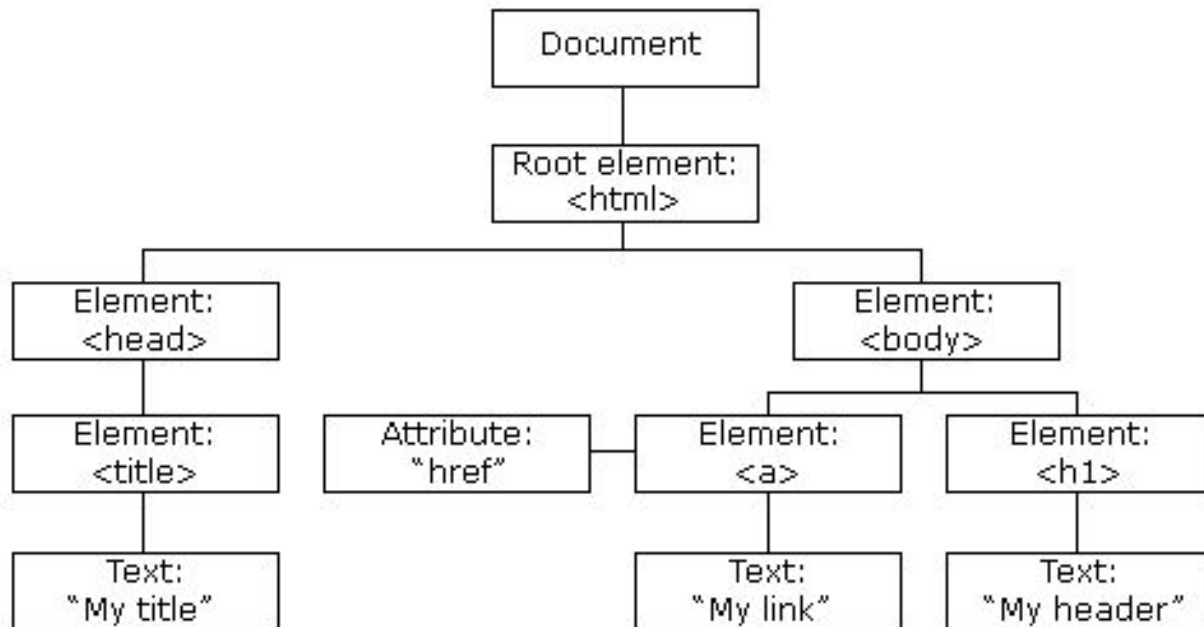
**<https://github.com/mailchimp/email-blueprints>**



# 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

# Semantic HTML benefits

- The action attribute defines the action to be performed when the form is submitted.
- The target attribute specifies where to display the response that is received after submitting the form.
- The method attribute specifies the HTTP method to be used when submitting the form data.
- The novalidate attribute is a boolean attribute.





# 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">
```



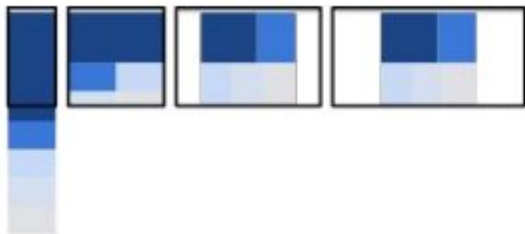
# Responsive design



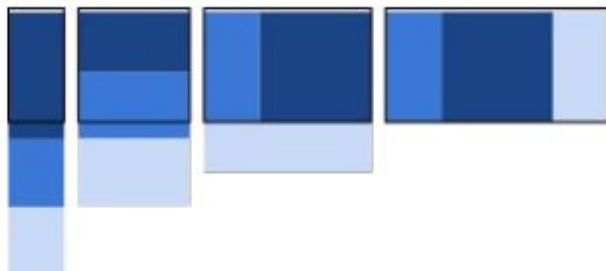
Set of practices that allows web pages to alter their layout and appearance to suit different screen widths, resolutions, etc



## Mostly Fluid



## Column drop



## Off canvas



## Layout shifter





## Tiny tweaks



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



# Responsive images

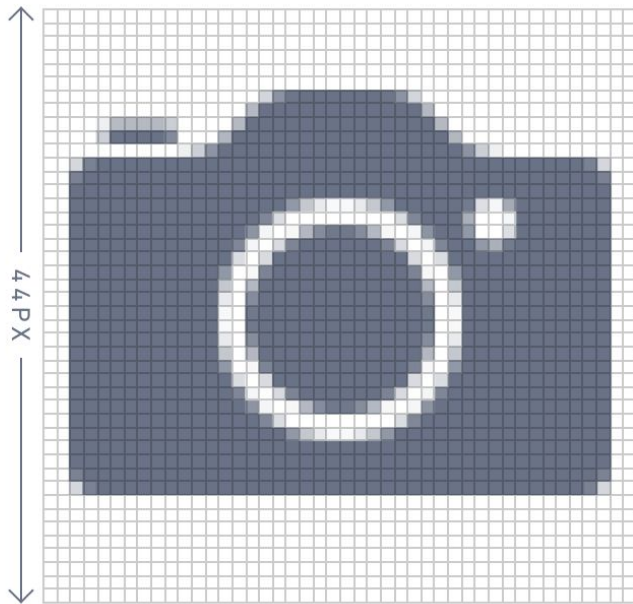
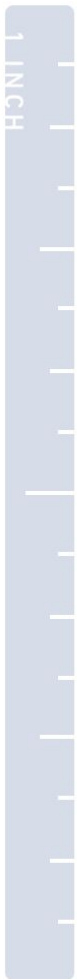


**<picture><source>**

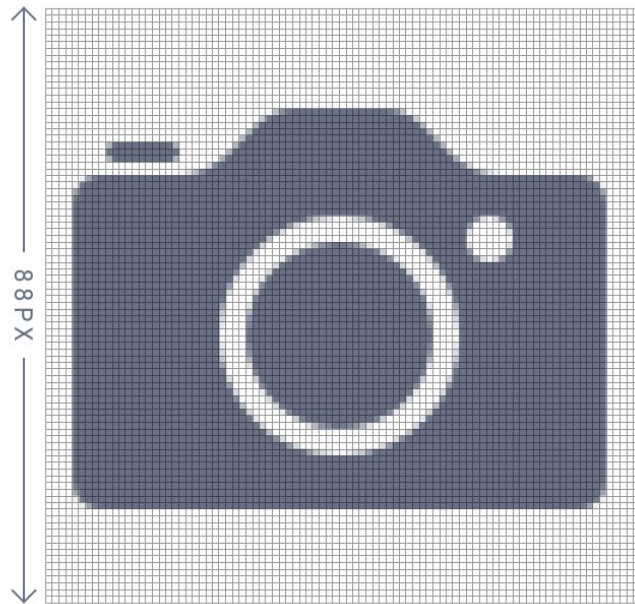


# srcset





Pre-Retina Display (1x)



Retina Display (2x)



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



# KEEPCODING

## Tech School

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<https://twitter.com/kevinccbsg>

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