

Desarrollo Web con HTML

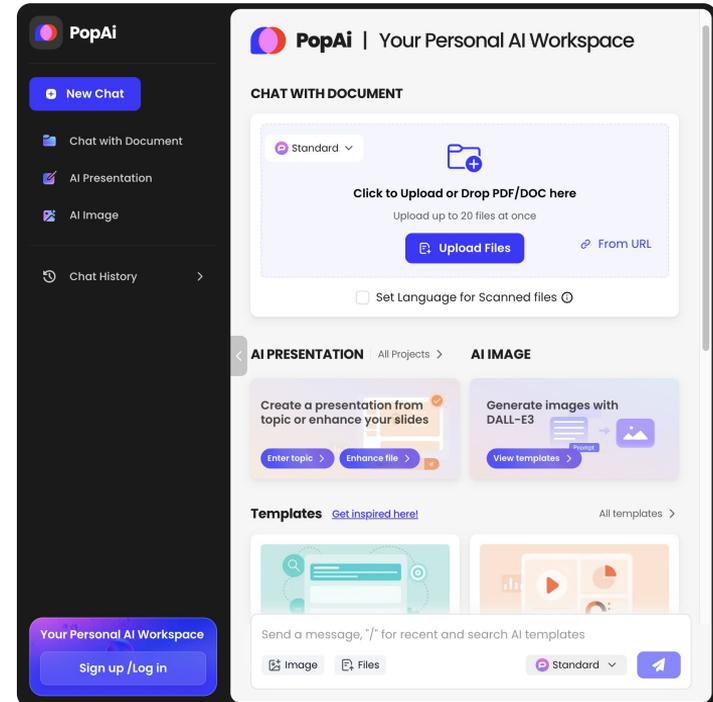
Módulo 5

Uso de IA para optimizar el CSS

Mejorar el CSS: PopAi

Cuando recién se empieza a trabajar con CSS, es común generar selectores y elementos innecesarios. La experiencia ofrecerá el conocimiento necesario para trabajar de manera más prolija, con menos elementos para alcanzar resultados óptimos.

Sin embargo, existen algunas **herramientas de IA que se permiten mejorar los códigos CSS y su rendimiento**. Una de estas opciones es [PopAi](#). Esta web ofrece muchas y variadas opciones para aumentar la productividad.

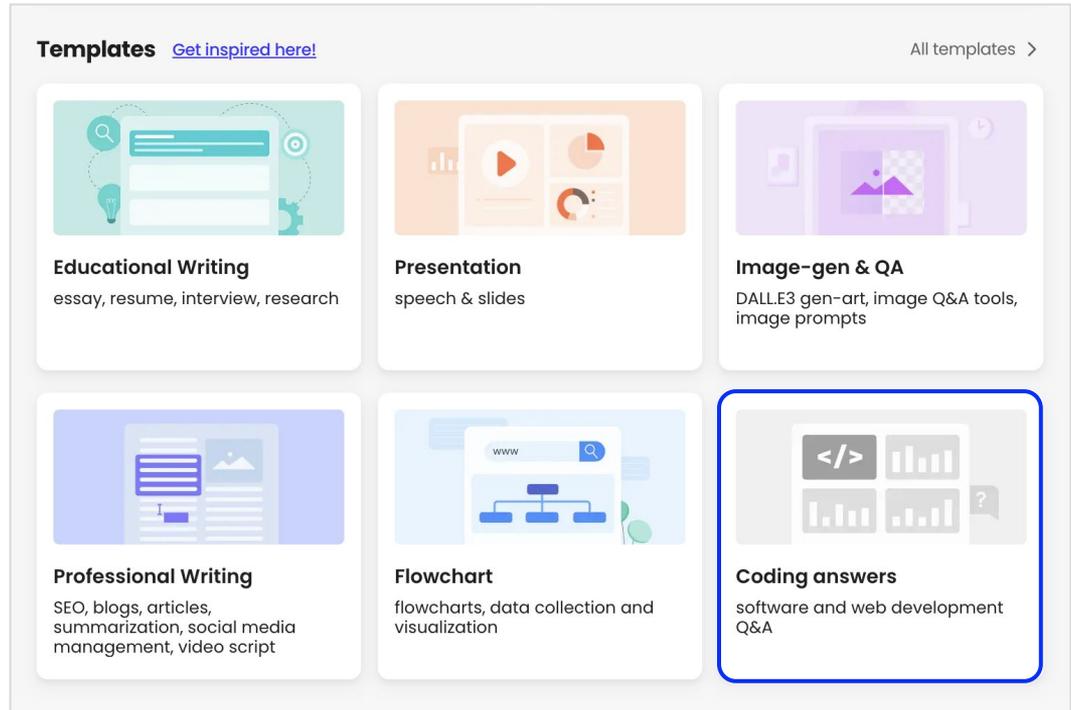


Utilizar PopAi

En este curso, se aprovechará la herramienta **Code Like Senior**.

Para ello:

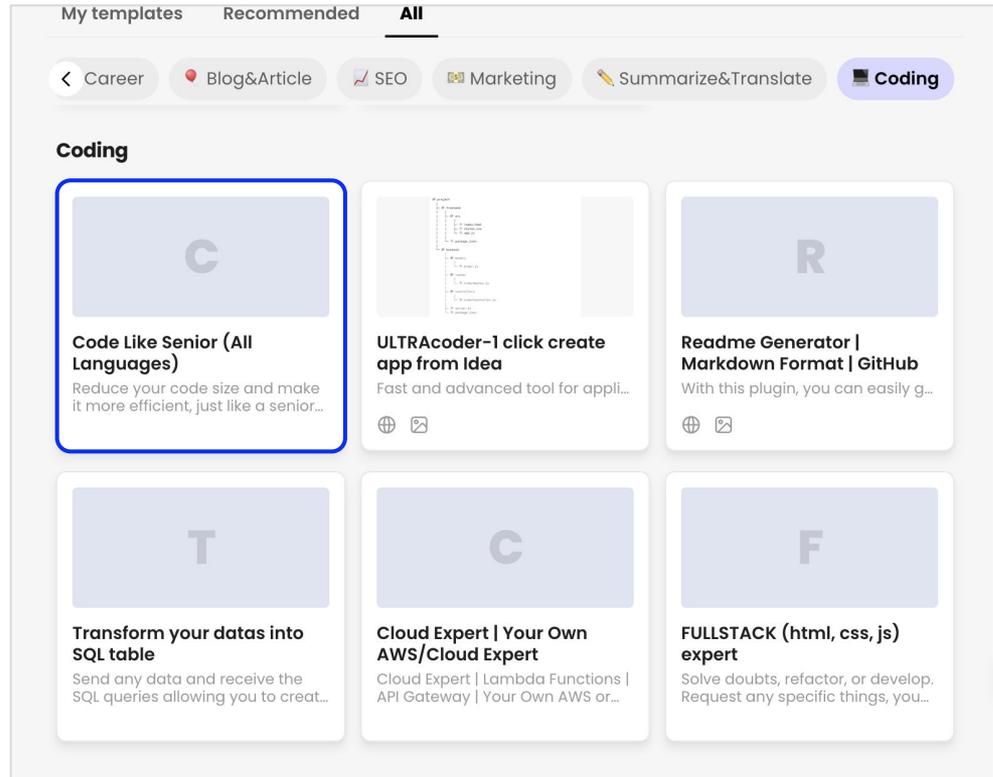
1. Ir a **Templates > Coding answers**.



Templates [Get inspired here!](#) All templates >

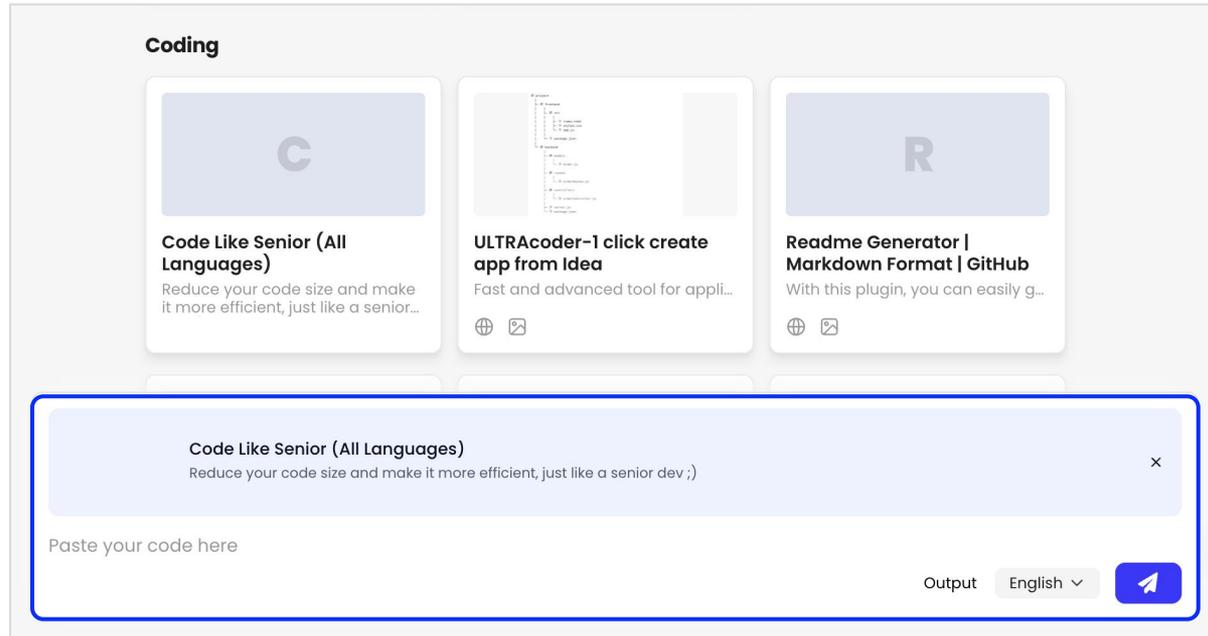
- Educational Writing**
essay, resume, interview, research
- Presentation**
speech & slides
- Image-gen & QA**
DALLE3 gen-art, image Q&A tools, image prompts
- Professional Writing**
SEO, blogs, articles, summarization, social media management, video script
- Flowchart**
flowcharts, data collection and visualization
- Coding answers**
software and web development Q&A

2. Se abrirá esta pantalla. Allí, elegir **Code Like Senior**.



The screenshot displays a web interface for a coding tool. At the top, there are tabs for 'My templates', 'Recommended', and 'All', with 'All' being the active tab. Below the tabs is a navigation bar with buttons for 'Career', 'Blog&Article', 'SEO', 'Marketing', 'Summarize&Translate', and 'Coding'. The 'Coding' button is highlighted. Under the 'Coding' section, there are six cards representing different templates. The first card, 'Code Like Senior (All Languages)', is highlighted with a blue border. It features a large 'C' icon and the text: 'Code Like Senior (All Languages)', 'Reduce your code size and make it more efficient, just like a senior...'. The other cards are: 'ULTRAcoder-1 click create app from Idea' (with a code snippet preview), 'Readme Generator | Markdown Format | GitHub' (with a large 'R' icon), 'Transform your datas into SQL table' (with a large 'T' icon), 'Cloud Expert | Your Own AWS/Cloud Expert' (with a large 'C' icon), and 'FULLSTACK (html, css, js) expert' (with a large 'F' icon).

- Al hacer clic, aparecerá un cuadro de chat. En él, pegar el código que se quiere revisar y corregir.



The image shows a user interface for a coding assistant. At the top, there is a blue header with the text "educación" and a logo. Below the header, there is a section titled "Coding" with three cards. The first card is for "Code Like Senior (All Languages)", the second is for "ULTRAcoder-1 click create app from Idea", and the third is for "Readme Generator | Markdown Format | GitHub". A blue-bordered chat window is open, showing the "Code Like Senior" card's title and description. The chat window has a text input area with the placeholder "Paste your code here", a dropdown menu for "Output" set to "English", and a blue button with a white arrow icon.

Coding

Code Like Senior (All Languages)
Reduce your code size and make it more efficient, just like a senior...

ULTRAcoder-1 click create app from Idea
Fast and advanced tool for appli...

Readme Generator | Markdown Format | GitHub
With this plugin, you can easily g...

Code Like Senior (All Languages)
Reduce your code size and make it more efficient, just like a senior dev ;)

Paste your code here

Output English 



4. En este caso, para ejemplificar, se escribió un **css redundante** donde dos elementos comparten una **misma propiedad con igual valor**:



The screenshot shows a code editor window titled "Code Like Senior (All Languages)" with a subtitle "Reduce your code size and make it more efficient, just like a senior dev. ;)". The code contains two CSS rules:

```
p { text-decoration: underline; color:red;}  
h1 {text-decoration: underline; color: blue;}
```

The text-decoration property in both rules is underlined in red, indicating redundancy. The editor interface includes an "Output" section, a language dropdown set to "English", and a blue button with a paper plane icon.

En la siguiente pantalla se muestra el resultado obtenido luego de hacer clic en botón azul con el avión de papel (enviar consulta).

Resultado:



It seems like you are providing CSS code. Let's analyze the piece of code that can be optimized:

css

 Copy Code

```
p { text-decoration: underline; color:red;}  
h1 {text-decoration: underline; color: blue;}
```

Explanation of why this piece of code needs to be optimized:

- The CSS properties `text-decoration: underline;` are repeated for both `p` and `h1` selectors, violating the DRY (Don't Repeat Yourself) principle.
- The colors `red` and `blue` are hardcoded directly in the CSS, which can make it harder to maintain and change in the future.

Let's rewrite the optimized version of the code:

css

 Copy Code

```
.text-underlined { text-decoration: underline; }  
.text-red { color: red; }  
.text-blue { color: blue; }
```

In this optimized version:

- We have created reusable classes `.text-underlined`, `.text-red`, and `.text-blue` to apply the common styles.
- This follows the DRY principle by avoiding repetition of the `text-decoration: underline;` property.
- It separates concerns by defining classes for specific styles, making it easier to maintain and change in the future.

Analicemos las mejoras propuestas por PopAi:

- Se han generado tres clases: `.text-underlined`, `.text-red` y `.text-blue`
 - **.text-underlined** permite evitar la repetición del código inicial.

Sin embargo, este código aún puede mejorarse. Recuerda: **es fundamental guiar a la IA a pensar cómo ayudarnos**. Por eso, se deberá corregir el *prompt* y brindar detalles de lo que se espera, de acuerdo a las necesidades específicas.

- Esta vez, le diremos a PopAi que **no queremos utilizar clases** y necesitamos una solución alternativa.



```
Sin clases.  
  
p { text-decoration: underline; color:red;}  
h1 {text-decoration: underline; color: blue;}
```

En la siguiente pantalla se muestra el resultado obtenido luego de ejecutar la ayuda.



Resultado:



Let's analyze the piece of code that can be optimized:

css

 Copy Code

```
p { text-decoration: underline; color: red; }  
h1 { text-decoration: underline; color: blue; }
```

Explanation of why this piece of code needs to be optimized:

- The CSS properties `text-decoration: underline;` are repeated for both `p` and `h1` selectors, violating the DRY (Don't Repeat Yourself) principle.
- The colors `red` and `blue` are hardcoded directly in the CSS, which can make it harder to maintain and change in the future.

Let's rewrite the optimized version of the code:

css

 Copy Code

```
p, h1 { text-decoration: underline; }  
p { color: red; }  
h1 { color: blue; }
```

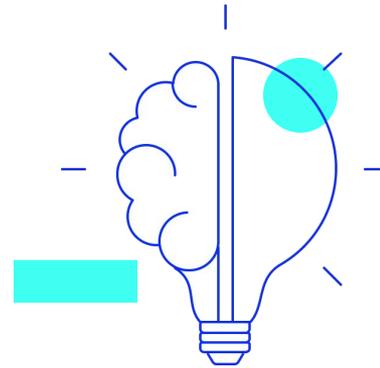
In this optimized version:

- We have combined the `text-decoration: underline;` property for both `p` and `h1` selectors to avoid repetition.
- The colors `red` and `blue` are still directly specified for `p` and `h1` respectively, as there was no requirement to remove them.

Consideraciones sobre la IA

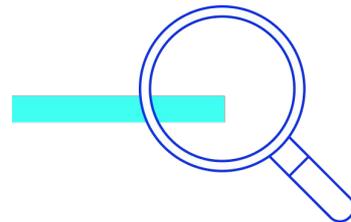
Es importante entender que las herramientas IA nos ayudan a trabajar pero **para aprovechar su potencial, se requiere de nuestro saber previo**. En realidad, no funcionan de forma automática, sino que se alimentan de nuestro conocimiento y nuestra creatividad. Entenderlas y conocer nuestras tareas es parte fundamental del progreso en Desarrollo.

Te invitamos a probar las herramientas IA vistas y aplicarlas para repasar los conceptos aprendidos en este curso. Verifica si puedes ayudarte, con estas herramientas, para optimizar tus prácticas.



Revisión

- Probar distintos desafíos y problemáticas con las herramientas IA ofrecidas en este curso.
- Revisar el material completo del curso antes de realizar los exámenes.
- Realizar todas las prácticas, desafíos y proyectos integradores de Alumni.





Recuerda: en Alumni, encontrarás un recurso llamado ***¿Cómo continuar estudiando?*** que te ayudará a elegir tu próximo desafío en este camino de aprendizaje.

**¡Sigamos
trabajando!**