



T5 - Web Development Seminar

T-WEB-500

Day 02

HTML/CSS





Today's exercises are not independent from each others.
Each exercise reuse the previous one.
They are to be done one after the other.



We advise you to systematically copy/paste the previous exercise before adding the requested functionalities.



All HTML pages must respect the basic HTML structure and have no errors on the [W3C Markup Validation Service](#).

TASK 01

Turn in: `./task01/index.html`

Write a HTML file named **index.html**.

The title of the page must be "CodingPedia".

The page must contain a level 1 title containing "Welcome to CodingPedia!" followed by a paragraph:

CodingPedia is a collective encyclopedia project on the Internet aiming to be universal and multi-lingual which functions as a wiki.

CodingPedia has for goal to offer freely reusable objective and verifiable content that anyone can modify and improve.



There must be a newline between the two sentences.

TASK 02

Turn in: `./task02/index.html`

Now includes the following structural tags to your page:

- a **header** that itself contains the previously created level 1 title and a **navigation** menu containing a list of three links:
 1. "Index" that redirects to `index.html`,
 2. "PHP" that redirects to `php.html`,
 3. "SQL" that redirects to `sql.html`.
- a **main** part containing the main content of the page (the paragraph describing CodingPedia)
- an **aside** part containing a paragraph that briefly introduce yourself.
- a **footer** part that contains an **address** tag with your coordinates: 'name' - 'first name' - ' address' - 'tel'.



`php.html` and `sql.html` will be created in the next tasks.



TASK 03

Turn in: `./task03/index.html`, `./task03/php.html`, `./task03/sql.html`

The main structure of the new pages must be the same as `index.html`.

On your **php.html** and **sql.html** pages, create 4 **articles** in your main content tag:

- The first article will contain a description of the page's technology (Copy / paste the first Wikipedia paragraph about **PHP** and **SQL**) and must use the **abbreviation** tag.
- A second empty article.
- A third article that contains a list of your comments on this technology.
- A fourth one that contain code examples.
Use the appropriate tag.



On the `php.html` and `sql.html` pages the titles and paragraph about CodingPedia are not needed.

The aside content tag will contain an HTML citation tag:

*Peace is a lie, there is only passion.
Through passion, I gain strength.
Through strength, I gain power.
Through power, I gain victory.
Through victory, my chains are broken.
The Force shall free me.*

Sith Code

TASK 04

Turn in: `./task04/index.html`, `./task04/php.html`, `./task04/sql.html`

Get back to the second article of the previous exercise.

Insert a new **table**.

Its *caption* will be "Course planning" and it must contain in its header the columns "Subject", "Description" and "Grade obtained".

It must contains the following rows:

- For `php.html`:
 - “PHP 101”, “Introduction to the language and syntax”, “15”
 - “OOP in PHP”, “How to do Object-Oriented Programming in PHP”, “-”
- For `sql.html`:
 - “SQL 101”, “A quick introduction to the SQL language”, “18”
 - “SQL join”, “Discovery of JOIN to combine rows from multiple tables”, “13”

TASK 05

Turn in: `./task05/index.html`, `./task05/php.html`, `./task05/sql.html`

Create a form in a new article of the **index.html** page.

This form will be used to ask questions on the technologies described in other pages.

It must contain the following fields:

- “Name” (required)
- “First name” (required)
- “Email” (required)
- “Age” (minimum 3, maximum 99 years old)
- “Phone” (10 characters)
- “Sex” (1 choice possible out of two **radio** options: “male” (default) and “female”.)
- “Hair color” (you will choose the color with the help of a color selector)
- “Date” (today’s date by default, required)
- “Technology” (drop-down list of the technology in question)
- “Question” (required and no size limit – you must use an appropriate element for this kind of field, one that can contain a lot of text)

There must be a submit form button containing the text “Submit”.



Each field must have a label and each label must be associated to its field with an HTML tag.



TASK 06

Turn in: ./task06/index.html, ./task06/php.html, ./task06/sql.html, ./task06/codingpedia.css

Create a CSS page named **codingpedia.css** and include it in your **index.html** and all the other pages.
Create a css class `box` that add a black solid border with a thickness of 2px.
The class should also have an external margin of 10px and a right and left internal marging of 10px.
Add this class to your `header`, `nav`, `main`, `aside` and `footer` tags.

TASK 07

Turn in: ./task07/index.html, ./task07/php.html, ./task07/sql.html, ./task07/codingpedia.css

The background color of the whole page should now be `grey` except for our `boxes` where it must be white.
Now we're going to change the layout of the page using only CSS. Align the `main` and `aside` part of the page horizontally using `flexbox`.
The main part should take 80% of the space.
Furthermore, using `grid` separate the title from the navigation menu in the header with a ratio of 5 to 1.

TASK 08

Turn in: ./task08/index.html, ./task08/php.html, ./task08/sql.html, ./task08/codingpedia.css

In the **index.html** page, integrate a "div" element that has a class "moving_square".
This element will represent a red, 100x100px square.

You must now have the square move.
First, the square must move 300 pixels to the bottom and take on a green color.
Then, the square will move 300 pixels to the right and take on a blue color.
Then, the square will move up 300 pixels and take on a yellow color.
Finally, the square returns to its starting position and its color goes back to red.



This movement must be performed 5 times before stopping.
Each cycle must last 5 seconds.

TASK 09 - BONUS

Turn in: ./task09/index.html, ./task09/php.html, ./task09/sql.html, ./task09/codingpedia.css

Reproduce the following element layout without modifying your HTML page structure (you can add div but nothing else).

The screenshot shows a web browser window titled "CodingPedia - Home" with the address bar displaying "http://index.html". The page layout is as follows:

- Header:** Contains the word "Bienvenue" on the left and a navigation menu on the right with links for "Home", "PHP", and "SQL".
- Main Content Area:**
 - Section:** A box containing the text "Ce site est trop bien, il va tout vous apprendre sur la Coding Academy".
 - Article:** A form with the following fields:
 - Nom: Text input
 - Prénom: Text input
 - Email: Text input
 - Date: Date picker showing "25/03/2015"
 - Sexe: Radio buttons for "Homme" (selected) and "Femme"
 - Techno: Dropdown menu with "PHP" selected
 - Question: Text area
 - Aside:** A box containing the text "Une courte description de moi et de ce que je fais ici à la coding academy".
- Footer:** A box containing the text "mon nom - mon adresse email".