# André Restivo



home > exercises > html

# ■HTML Exercises

# 1. Online Newspaper

Using **HTML 5 only**, create a **prototype** of an **online newspaper**:

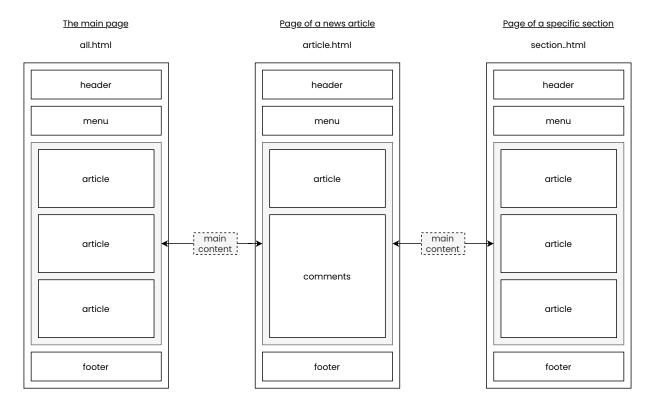
- Throughout this exercise, **do not worry about design**. HTML is a markup language with *pre-defined presentation semantics*; the design is handled by CSS (more on this next week).
- For now, you can edit your HTML files locally.
- Validate and verify the result on the browser as you proceed.

### Some tips and ideas:

- Use the site <a href="http://www.lipsum.com/">http://www.lipsum.com/</a> if you need to generate example paragraphs.
- Use the site <a href="https://picsum.photos/">https://picsum.photos/</a> if you need some example photos.

#### Instructions:

[1] In this exercise, you will create the pages described in the following image:



- The **main** page represents the main page of the newspaper having a series of **abbreviated** news items.
- The news article page has one particular news item in its complete form. It also has comments written by the readers.

- The section page is very similar to the main page, but only has news about a particular topic (e.g., sports).
- [2] For each page, create a new HTML file, open it with your favorite code editor, and add the following basic HTML code:

```
<!DOCTYPE html>
<html>
    <head>
        <title>Online Newspaper</title>
        </head>
        <body>
        </body>
        </html>
```

- [3] Open the **main** page in a **web browser** (the most straightforward way is to drag the file into a new tab).
- [4] Complete each page using the **correct semantic elements**.
  - The **header** of each page should have:
    - The name of the newspaper.
    - A logo.
    - The section's name (if it's a **section** page).
    - Clicking any of these elements should take the user back to the **main** page.
  - The **menu** should have links to each one of the **section** pages (e.g., sports, politics, and local)
    - The links should be part of an unordered list.
    - For now, all of those can point to *section.html*.
  - Each **article** should have a title, some paragraphs, an image, and a footer.
    - In the main and section pages, only a couple of paragraphs of each news item should be shown.
    - The **news article** page should also have some comments. Each **comment** should have some text, a date/time, and the author's username. After all the comments, there should be a **form** (with a title, a username and a text fields) that allows users to add more comments.
    - The **footer** should contain the date/time and the author's name. In the **main** and **section** pages, there should also be a "Read more" link that redirects the user to the **news article** page containing the complete news item.
  - The **footer** of each page should have a Copyright Notice. Use a character entity for the © symbol.
- [5] Don't forget to validate the pages when you're done.

### What did I learn:

- The basics of HTML documents.
- The usage of section elements.
- How to validate an HTML page.
- HTML is not for design!

# 2. Complex Table

Using **HTML 5 only**, create a document representing the following table.

Student		Exam				2nd Exam				Final Grade	
		Q1	Q2	Q3	Grade	Q1	Q2	Q3	Crada	Filial Grade	
Code	Name	8	7	5	Grade	6	7	8	Grade	NR	R
80549061	John	70%	100%	100%	17.6					17.6	18
80549062	Mary	10%	50%	50%	6.8	100%	100%	50%	16.5	16.5	17
80549063	Claire					50%	50%	50%	10.0	10.0	10

As we still don't know CSS, let's use the attribute border= "1" to visualize the result better:

Or, if you want to be fancy, you can use CSS (spoiler alert). Just add this to the document's head element:

```
<style>
table {
    border-collapse: collapse;
}
th, td {
    border:1px solid;
    padding: 0.5em;
}
</style>
```

**Tip:** The easiest way to implement complex tables in HTML is to think about the table row by row. This table has **6 rows**.

### When you are finished:

- [1] Validate the HTML code.
- [2] Include a valid HTML 5 icon on the webpage.
- [3] Revalidate the document.

#### What did I learn:

- How to create a complex HTML table.
- Tables are for presenting tabular data, not for design!

## 3. Form

- [1] Create a web page containing a **form** where users should input the following data:
  - Name (text).

- Age (radio buttons with options "<18", "19-35", "36-48" and ">49")).
- Profession (text but with some predefined suggestions use a **datalist**).
- Country (a dropdown box add some countries).
- Interests (a list where users can check several make up some choices).
- How did the user find out about the site (larger text field).
- [2] The *name* and *country* fields should be **required**.
- [3] The form should also have a submit button, use the **button** element.
- [4] Each field should have a label.
- [5] Validate the page when you are finished.
- [6] Try to submit the form and verify what happens in the URL bar using **POST** and **GET** as the form methods.

#### What did I learn:

- How to create an HTML form.
- How to use labels to improve accessibility.
- How to use character entities.
- The difference between "GET" and "POST" action in forms (more about this later).

## 4. Extra

- [1] Pick a page from a website you use a lot
- [2] Without looking at its HTML code, try writing your own version using good HTML semantics.
- [3] Validate the HTML code.

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