

### Objective

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Your task is to use HTML5 **only** to build and publish to your webhost account a semantically correct webpage for a short Chicago Sun-Times features article about Mountain Dew Pink. The learning goals of this assignment are:

- To gain deeper understanding of semantic design principles, and exercise that understanding.
- To exercise your skills at working with your webhost account including sub-folder creation, and image and file placement/manipulation.

I will post my solution to this problem after the due date so you have it available to you.

### Task

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Your task is to build and publish an HTML5 webpage containing the Sun-Times text provided to you. It is probably from a Mountain Dew press release. See the Lab 2 area of D2L content for the raw text and image.

Some of you are going to hate this lab. But I say that with a smile on my face. Your Lab 2 submission is going to look ugly. It is supposed to look ugly. That is kind of the idea. On Lab 2 we only consider HTML structure and semantics. We completely ignore presentation styling.

**The number one rule of lab 2 is that you are not allowed to do anything to make it look pretty.** The task for lab 2 is to write structural and semantic HTML.

- You are only to use HTML.
- You are not permitted to write any CSS at all for this lab.
- And, you are not permitted to use any HTML for presentational purposes on this lab.

#### ***How do you know whether you are adding HTML for presentational purposes?***

1. If you are adding it to make something look right, then it is presentational.
2. If you are using it in a way the HTML5 documentation tells you is non-standard, then it is may be presentational.

*A question you can ask yourself to test this is: If I am writing this HTML for a screen reader, why do I need the element I am considering adding? What does this element tell the screen reader that the screen reader should know?*

Further, your task is to always use the more semantically specific HTML element if you have a choice among several elements. A `<span>` may be ok, but if a more specific element exists then that is the one you should be using.

The big picture is: you are trying to semantically describe the document as accurately as you can (within reason)<sup>1</sup>.

For those of you who have a design background, this may be frustrating. I did this lab last Friday, I'm confident I got the semantics right (or largely right for a first pass), and my solution looks REAL UGLY on the screen. But that's ok. Lab 2 is supposed to look ugly because you aren't to do anything at all to make it look pretty. That's not your assignment this week.

## Specifications

Here is the Chicago Sun-Times web page that I've pulled content from.

**CHICAGO SUN-TIMES**

News • Sports • Politics • Coronavirus • Entertainment •


TASTE FOOD AND RESTAURANTS THE SP

### Mountain Dew going pink — launches first new soda flavor in more than a decade

MTN Dew Major Melon will give soda fans a watermelon flavor, and will also be available with zero sugar.

By USA TODAY | Jan 6, 2021, 1:50pm EST  
Coral Murphy/USA TODAY

f t in SHARE



Mountain Dew's Major Melon — is regular and zero sugar beverages — is available in 20-ounce bottles, 2-liter bottles, 12-packs of 12 oz. cans and other single and multipack sizes. | PepsiCo

Mountain Dew has unveiled its first new permanent flavor in more than a decade.

MTN Dew Major Melon will give soda fans a watermelon flavor, and will also be available with zero sugar.

"Watermelon is a truly transperative taste, evoking feelings of freedom and nostalgia," says Nicole Fortwood, vice president of marketing at MTN Dew. "We found watermelon to be the number one choice of flavors tested amongst our fans, and MTN DEW Major Melon is our answer for those who are looking for a refreshing charge to keep them invigorated all day long."

Both the regular and zero sugar beverages come in 20-ounce bottles, 2-liter bottles, 12-packs of 12 oz. cans and other single and multipack sizes. The new flavor is available at retailers and online.

The last permanent flavor Mountain Dew introduced was the citrus-flavored White Out in 2010.

Mountain Dew is the No. 1 flavored carbonated soft drink in the U.S.

Read more at [usatoday.com](https://www.usatoday.com)

**NEXT UP IN TASTE**

What's the best diet for 2021? Experts weigh in  
Epicurious is righting cultural wrongs one recipe at a time  
Starbucks winter menu boasts new Pistachio Latte, Honey Almondmilk Cold Brew, Red Velvet Loaf  
Menu planner: Potato, turkey and vegetable casserole is both economical and tasty  
McDonald's to launch new chicken sandwiches in February  
One Illinois county allows indoor dining, to governor's chagrin

<sup>1</sup> I say "within reason" as there are some specifics that are judgment calls. Does every single year mentioned need a time element? It depends. How important is it that the google or an app know those characters represent a year? Does every single abbreviation need to be defined? Depends. Is knowing what the abbreviation stands for important to understanding or using or categorizing the document?

The content from the page I want us to use is in a text file on D2L. I've omitted some content to make the lab a bit easier--and some content that is just too presentational for us to work with this week.

I am not going to show you my solution before you submit as some of you will simply try to build a site to visually match my solution rather than think through the semantic meaning of the content.

**The presentational view of your solution will depend upon the semantic elements you choose.** So your presentational view may vary slightly from mine. And that may be fine (depending upon your choices.)

Everything in the text file that is an HTML comment is intended as a comment for you. It is not part of the actual HTML document. ***Read those comments carefully as they include instructive specification for the assignment.***

**Do not build out content that is not in the text file.** For example, I intentionally omitted the social media links that show up in the screen capture on previous page. I intentionally omitted the Sun-Times masthead and the full site menu.

Again:

**Do not add any HTML or CSS for presentational purposes.** *[You will be marked down for doing so.]*

Let the browser render the page as the semantic HTML directs it to do. **It is ok if it is ugly; that's the idea for this lab.** You don't care about presentation for the purposes of this lab.

1. The webpage must be built using only HTML5. You are not permitted to use CSS nor JavaScript at all. You are not permitted to build in XHTML or HTML4.01. Any use of `<p>` or `<br>` or `<hr>` or `<b>` or `<i>` must be for semantic, not presentational, purposes. Beyond these constraints, you may use any other HTML5 element you deem semantically appropriate, but you may not use any presentation design attributes (such as image sizing) with your HTML.<sup>2</sup>
2. You must use semantically appropriate HTML elements, and **you should opt for more specific element choices** (rather than general semantic-- e.g. `<footer>` instead of `<div>`) whenever possible. You are expected to research (and/or discuss in the Lab 2 Discussion Forum) various semantic options for your solution. *HTML5Doctor is a good resource, but not the only one.*
3. Your solution must have an HTML5 DOCTYPE.
4. The `<head>` of your HTML5 file must contain:
  - A meta element naming the Unicode character set you want the browser to use (UTF-8).

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<sup>2</sup> Explained more completely: You may **not** size your images thus:

`` as this is an old style presentation parameter in HTML. You may not use any presentation attributes on this assignment.

- a <title> element
  - a meta element naming YOU as the page author. E.G.  
**<meta name="author" content="Daniel Mittleman">**
  - Recommended: This element: **<meta name="robots" content="noindex, nofollow">** that will prevent search engines from indexing your page.<sup>3</sup>
  - You must access the pink bottle image in your <img> element using a relative reference.
5. **You must write a source code comment justifying every use of a <div>. That is, if you decide a <div> is the correct element to use any place in your document, you are required to explain why. Use of any <div> without an adjacent source code justification is considered wrong.**
6. You may choose to discuss any other element choices you think merit discussion in source code comments.

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<sup>3</sup> As you probably don't want this assignment to become part of your permanent portfolio of work on the web. If you do, then change noindex to index.

### Deliverables

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Publish this lab to your /lab2 folder as **index.html** with two subfolders as described above.

Submit to the Submissions Dropbox (as a plain text comment, please) your answers to:

- a. Your Lab2 URL.
- b. What did you find to be the best semantic HTML references?
- c. Did your code pass HTML and CSS validation? If not, why?<sup>4</sup> How did you address this issue?
- d. What outstanding questions do you have for me to address in class this week? Or what new questions surfaced when doing this lab?

I will publish my solution to D2L before class time Monday.

### Deadline

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As stated on D2L.

### Additional Guidance and References

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Here are some pointers that may help you. If this is overkill, just ignore.

#### REFERENCE SITES.

- A list of HTML5 Elements with their semantic meaning explained  
<http://html5doctor.com/element-index/>  
This list has excellent discussion of each item, but is alphabetical—so it helps to already know what you are looking for.
- Another list of HTML5 Elements with their semantic meanings explained  
<https://developer.mozilla.org/en-US/docs/Web/HTML/Element>  
This list is organized by category, so perhaps it is easier to find an element if you don't already know what you are looking for.
- W3School's Overview of HTML5 Semantic Elements  
[http://www.w3schools.com/html/html5\\_semantic\\_elements.asp](http://www.w3schools.com/html/html5_semantic_elements.asp)  
Nice clean overview of semantic elements in HTML5. Also note other HTML5 material in left margin menu.
- Downloadable HTML5 CheatSheet  
<http://websitesetup.org/html5-cheat-sheet/>  
Also note this guy has a beginners guide that looks real good if you are a beginner and it feels like I just threw you in the deep end.

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<sup>4</sup> Validator is at <https://validator.w3.org/>