Subject **Week 8**
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Here you go Dad! It looks like a lot this week. Sorry and thanks for always being willing to help me with this stuff. Love you! ☺

Required Readings

Read and **Try it Yourself** tutorials from w3schools.com

HTML Forms

HTML Form Elements

HTML Input Type

HTML Input Attributes

Watch "AtoZ CSS: The Required Attribute" from SitePoint.

Read "HTML Table Basics" from Mozilla Developer Network.

Browse HTML Tables from w3schools.com.

Additional References

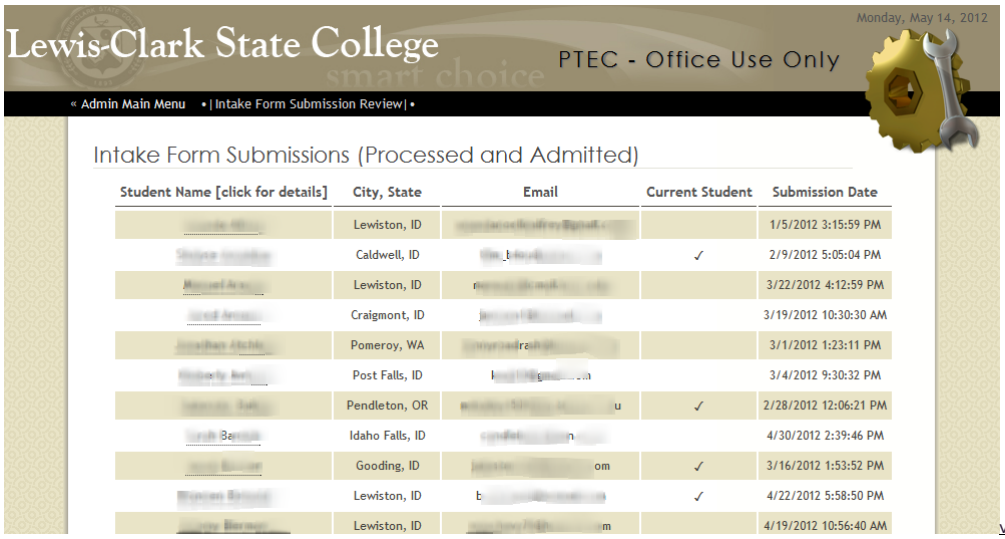
"Learn HTML Forms" MDN—Mozilla Dev Network's basic and advanced structure of forms including validation, processing and styling guides.

"Make Forms Fun with Flexbox"—A SitePoint article demonstrating flex layout for forms.

Assignment 1:

Build a Data Table

Tables provide a structured way to represent data in rows and columns. The design issue is that table markup has been used for site layout which is a **problem** because the markup is confusingly bloated making it hard to maintain and debug. Using table structures for layout also reduces accessibility for the visually impaired and they are **NOT** ideal for responsive page behavior. However, tables are very common in all aspects of humanity and can be used judiciously to represent data. Here are a few examples of web applications where data tables might be appropriate as a section of the page:



view larger image

view larger image

Requirements

In this assignment, you will build a small simple table and review it with your peers.

❑ Create a ***lesson-8*** folder within the *assignments* folder. Create a generic, valid basic html file named ***tablebuild.html*** in the lesson folder.

❑ Build the following table in the <main> content area in the *tablebuild.html* file.

Get as close as possible to the displayed design and structure for full credit.

You must use the ***thead***, ***tbody*** and ***tfoot*** tags in your table structure.

You may use a **maximum of one class selector**.

Style details:

*The font-family is **Ubuntu**, sans-serif.*

*Color **scheme** includes #e7f0ed, #e7ffed (data rows) and #628ca6, #7fb9c2 with white and black.*

*You may find the **first-child** and **nth:child()** pseudo classes helpful in CSS.*

ACME Wildwest

Period	Sales	Sales Goal
August	$3,590	$4,000
September	$4,420	$5,000
October	$4,870	$5,000
November	$8,610	$7,500
Black Friday	$3,200	
December	$6,820	$7,500

Compiled 12.20.2020 by bRauls

Assessment

Upload your folders and table file to your remote site.

Post the URL to your table page as a new thread in the discussion board. Once you post you will have access to other posts and be able to review your peer's work.

Review those posts and reply to one other posting not on the same day that you posted your page with a table structure.

Using the reviews, make alterations to your table layout and design if needed.

Assessment Criteria 10 points possible: Concept Application Category	
The table is structured correctly with the required tags and CSS restrictions. All HTML and CSS is valid.	6 points
The table content is reasonably styled to match the given image.	2 points
One substantive peer review was given not on the same day as the original assignment thread.	2 points

Activity:

Build a Form

Forms provide an interface for the users to communicate and provide information to the site. In this activity, you will create a form using several different form elements. Proper form design principles are demonstrated. The activity will prepare you to design and develop a form of the weather site project where users can report on weather activity.

. Download and unzip the tutorial files into a local folder named *formbuild* within your *cit230* work folder.

. Sign up for a FREE account on Udemy.

. After getting your account, login and find the class titled "Responsive Web Design with HTML5 and CSS3 - Intermediate" by Paul Cheney.

. Click *Buy Now* and accept the *Terms of Use*. You may have to click *Buy Now* again to get the Confirm Purchase pop-up window.

. Click *Redeem a coupon* near the top of that dialog box and enter "BYUI_CIT230" to gain free access.

. Click on *Go to Course*

. Watch the following series of videos and follow along with your data files demonstrating how to build out a form:

Introduction parts 1 and 2

Overview of the Completed Page

Watch Progress Bar

Build a Form Parts 1 and 2

Styling the Form

As with most modern videos streamed from the web, you can watch at the speed with which you are comfortable.

Assignment 2:

Storm Center

In this assignment, we complete the *Storm Center* page on the weather site. The purpose of this page is for the user to report a storm or unusual weather event in their travel area. Use your established weather site layout for the page and add links to keep a consistent feel. Your page must be responsive and utilize the HTML input features that are specified.

This is a good opportunity to use caniuse.com to check relevant browser support for front-end web technologies on desktop and mobile web browsers.

Requirements

❑ Start by duplicating your existing *franklin-7* folder and rename it *franklin-8*. We will be adding to the work you completed last week. Next, create a new file named ***stormcenter.html*** within the franklin-8 folder. You may use the contents of your index.html page as a template for *stormcenter.html* page and then remove the content of the <main> tag. You will be creating a web form inside the <main> tag. Update the links in your navigation to reference this new page. Finally remember to add a link from your portal page to this weeks assignment.

❑ The form page must contain the following elements, types and attributes:

full name using input of type **text** and is **required** and only accept alpha characters with a minimum of five characters using a regular expression **pattern**.

email using input of type **email** and use a **placeholder** to provide a demo email

phone number using input of type **tel** and is **required**

zip code using input of type **number** and is **required**

storm date using input of type **date**

storm type using input with a **list** attribute using a **datalist** of suggestions including "Flash Flood", "Hail", "Hurricane", "Thunderstorm", and "Tornado".

storm severity using type **range (1 to 10)** with a corresponding label that indicates the current range value from 1 to 10. Hint: See the Pen HTML Form Example Objects

storm region using **select** with dropdown **options** of "Franklin", Greenville, and "Springfield". Add a first option with the text "Select Region ..." that is shown by default but not selectable (disabled). The rest of the options should have relevant **value** attributes.

user in-danger level using input of type **radio** with options and values of of yes, maybe, and no.

additional information or comments using a **textarea**

form submission button using input of type **submit**

❑ Each field element should have an appropriate **name** attribute

❑ Ensure that the design meets standards such as eye tracking in a straight line and proper keyboard progression for accessibility. See "Designing more Efficient Forms"

Your form design SHOULD NOT be exactly like the tutorial given on building a form. Incorporate your own design ideas and patterns.

❑ Create a new page labeled ***thanks.html*** that expresses gratitude for filling out the form. This page should load when the user has successfully submitted the form. Hint: review the <form> attributes.

The submission of this form will not process any of the input, i.e, will not send email, create a database record, automatically publish to user comment page, etc. This processing is beyond the scope of the course but may be of great interest to you because the process is certainly relevant in the full-stack world of web development.

❑ The storm center and thank you pages need to meet all standard criteria of valid, standards-based, semantic markup and be responsive in all viewports.

❑ Copy the latest versions of your current pages and supportive files for the weather site into the *lesson-9* folder, name them properly, and ensure that all three pages are linked properly in the navigation.

Assessment

Upload your work and update your course home page.

Attach a simple text file containing your updated home page URL to the assignment drop-box and enter the URL as a comment as well for easy clicking.

Assessment Criteria **30 points possible: Weather Site Project Category**
A base score is provided to ensure that **standards** are met for HTML and CSS including semantics, HTML validation, CSS validation, meta information and file/folder naming and structure.
The PARC and typography design principles are evident in all views with favorable eye tracking. The design should **not** be exactly like the video tutorials given in the lesson.
All three views on both pages are supported without any violations of responsive principles and recommendations.
All required form elements exist and have the specified, required attributes.
A thank you page is provided on successful submission.
The page is properly linked with the rest of the weather site with a consistent look and feel.