INT106Lab – Form and Event#2

\*Credit: [www.w3schools.com](http://www.w3schools.com) and Jennifer Niederst Robbins, Learning web design 4th edition

More Input Types.

HTML5 added several new input types:

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| color  date  datetime  datetime-local  email  month  number  range  search  tel  time  url  week |

Note: Input types those are not supported by old web browsers, will behave as input type text.

Input Type: date  
<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_date>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <p>  Depending on browser support:<br>  A date picker can pop-up when you enter the input field.  </p>  <form action="action\_page.php">  Birthday:  <input type="date" name="bday">  <input type="submit">  </form>  <p><b>Note:</b> type="date" is not supported in Internet Explorer.</p>  </body>  </html> |

You can add restrictions to the input:  
<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_date_max_min>

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| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  Enter a date before 1980-01-01:<br>  <input type="date" name="bday" max="1979-12-31"><br><br>  Enter a date after 2000-01-01:<br>  <input type="date" name="bday" min="2000-01-02"><br><br>  <input type="submit">  </form>  <p><strong>Note:</strong>  type="date" is not supported in Internet Explorer.</p>  </body>  </html> |

Input Type: color

The <input type="color"> is used for input fields that should contain a color.  
Depending on browser support, a color picker can show up in the input field.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_color>

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| <!DOCTYPE html>  <html>  <body>  <p>  Depending on browser support:<br>  A color picker can pop-up when you enter the input field.  </p>  <form action="action\_page.php">  Select your favorite color:  <input type="color" name="favcolor" value="#ff0000">  <input type="submit">  </form>  <p><b>Note:</b> type="color" is not supported in Internet Explorer.</p>  </body>  </html> |

Input Type: range

The <input type="range"> is used for input fields that should contain a value within a range.  
Depending on browser support, the input field can be displayed as a slider control.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_range>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <p>  Depending on browser support:<br>  The input type "range" can be displayed as a slider control.  </p>  <form action="action\_page.php" method="get">  Points:  <input type="range" name="points" min="0" max="10">  <input type="submit">  </form>  <p>  <b>Note:</b>  type="range" is not supported in Internet Explorer 9 and earlier versions.  </p>  </body>  </html> |

Note: You can use the following attributes to specify restrictions: min, max, step, value.

Input Type: month

The <input type="month"> allows the user to select a month and year.  
Depending on browser support, a date picker can show up in the input field.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_month>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <p>  Depending on browser support:<br>  A date picker can pop-up when you enter the input field.  </p>  <form action="action\_page.php">  Birthday (month and year):  <input type="month" name="bdaymonth">  <input type="submit">  </form>  <p><b>Note:</b>  type="month" is not supported in Internet Explorer.  </p>  </body>  </html> |

Input Type: week

The <input type="week"> allows the user to select a week and year.  
Depending on browser support, a date picker can show up in the input field.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_week>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <p>  Depending on browser support:<br>  A date picker can pop-up when you enter the input field.  </p>  <form action="action\_page.php">  Select a week:  <input type="week" name="year\_week">  <input type="submit">  </form>  <p><b>Note:</b>  type="week" is not supported in Internet Explorer.  </p>  </body>  </html> |

Input Type: time

The <input type="time"> allows the user to select a time (no time zone).  
Depending on browser support, a time picker can show up in the input field.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_time>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <p>  Depending on browser support:<br>  A time picker might pop-up when you enter the input field.  </p>  <form action="action\_page.php">  Select a time:  <input type="time" name="usr\_time">  <input type="submit">  </form>  <p><b>Note:</b>  type="time" is not supported in Firefox or Internet Explorer.  </p>  </body>  </html> |

Input Type: search

The <input type="search"> is used for search fields (a search field behaves like a regular text field).

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_search>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  Search Google:  <input type="search" name="googlesearch">  <input type="submit">  </form>  </body>  </html> |

Input Type: file

The <input type="file">   
Web forms can collect more than just data. They can also be used to transmit external documents from a user’s hard drive. For example, a printing company could use a web form to upload artwork for a business card order. A magazine could use a form on their site to collect digital photos for a photo contest.

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| --- |
| <form action="/client.php" method="POST" enctype="multipart/form-data">  <label>Send a photo to be used as your online icon  <em>(optional)</em><br>  **<input type="file" name="photo" size="28">**<label>  </form> |

HTML Input Attributes

**The value Attribute**

The value attribute specifies the initial value for an input field:

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_value>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="">  First name:<br>  <input type="text" name="firstname" value="John">  <br>  Last name:<br>  <input type="text" name="lastname">  </form>  </body>  </html> |

**The readonly Attribute**

The readonly attribute specifies that the input field is read only (cannot be changed):

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_readonly>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="">  First name:<br>  <input type="text" name="firstname" value ="John" readonly>  <br>  Last name:<br>  <input type="text" name="lastname">  </form>  </body>  </html> |

**The disabled Attribute**

The disabled attribute specifies that the input field is disabled.  
A disabled element is un-usable and un-clickable.  
Disabled elements will not be submitted.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_disabled>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="">  First name:<br>  <input type="text" name="firstname" value ="John" disabled>  <br>  Last name:<br>  <input type="text" name="lastname">  </form>  </body>  </html> |

**The size Attribute**

The size attribute specifies the size (in characters) for the input field:

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_size>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="">  First name:<br>  <input type="text" name="firstname" value ="John" size="40">  <br>  Last name:<br>  <input type="text" name="lastname">  </form>  </body>  </html> |

**The maxlength Attribute**

The maxlength attribute specifies the maximum allowed length for the input field:

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_maxlength>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="">  First name:<br>  <input type="text" name="firstname" maxlength="10">  <br>  Last name:<br>  <input type="text" name="lastname">  </form>  </body>  </html> |

**The autocomplete Attribute**

The autocomplete attribute specifies whether a form or input field should have autocomplete on or off.  
When autocomplete is on, the browser automatically complete values based on values that the user has entered before.  
Tip: It is possible to have autocomplete "on" for the form, and "off" for specific input fields, or vice versa.  
The autocomplete attribute works with <form> and the following <input> types: text, search, url, tel, email, password, datepickers, range, and color.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_autocomplete>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php" autocomplete="on">  First name:<input type="text" name="fname"><br>  Last name: <input type="text" name="lname"><br>  E-mail: <input type="email" name="email" autocomplete="off"><br>  <input type="submit">  </form>  <p>Fill in and submit the form, then reload the page to see how autocomplete works.</p>  <p>Notice that autocomplete is "on" for the form, but "off" for the e-mail field.</p>  </body>  </html> |

**The novalidate Attribute**

The novalidate attribute is a <form> attribute  
When present, novalidate specifies that form data should not be validated when submitted.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_form_novalidate>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php" novalidate>  E-mail: <input type="email" name="user\_email">  <input type="submit">  </form>  <p><strong>Note:</strong> The novalidate attribute of the form tag is not supported in Internet Explorer 9 and earlier versions, or in Safari.</p>  </body>  </html> |

**The autofocus Attribute**

The autofocus attribute is a boolean attribute.  
When present, it specifies that an <input> element should automatically get focus when the page loads.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_autofocus>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  First name:<input type="text" name="fname" autofocus><br>  Last name: <input type="text" name="lname"><br>  <input type="submit">  </form>  <p><strong>Note:</strong> The autofocus attribute of the input tag is not supported in Internet Explorer 9 and earlier versions.</p>  </body>  </html> |

**The form Attribute**

The form attribute specifies one or more forms an <input> element belongs to.  
Tip: To refer to more than one form, use a space-separated list of form ids.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_form>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php" id="form1">  First name: <input type="text" name="fname"><br>  <input type="submit" value="Submit">  </form>  <p>The "Last name" field below is outside the form element, but still part of the form.</p>  Last name: <input type="text" name="lname" form="form1">  </body>  </html> |

**The formaction Attribute**

The formaction attribute specifies the URL of a file that will process the input control when the form is submitted.  
The formaction attribute overrides the action attribute of the <form> element.  
The formaction attribute is used with type="submit" and type="image".

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_formaction>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  First name: <input type="text" name="fname"><br>  Last name: <input type="text" name="lname"><br>  <input type="submit" value="Submit"><br>  <input type="submit" formaction="demo\_admin.asp" value="Submit as admin">  </form>  <p><strong>Note:</strong> The formaction attribute of the input tag is not supported in Internet Explorer 9 and earlier versions.</p>  </body>  </html> |

**The formenctype Attribute**

The formenctype attribute specifies how the form-data should be encoded when submitting it to the server (only for forms with method="post")  
The formenctype attribute overrides the enctype attribute of the <form> element.  
The formenctype attribute is used with type="submit" and type="image".

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_formenctype>

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| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="demo\_post\_enctype.asp" method="post">  First name: <input type="text" name="fname"><br>  <input type="submit" value="Submit">  <input type="submit" formenctype="multipart/form-data" value="Submit as Multipart/form-data">  </form>  <p><strong>Note:</strong> The formenctype attribute of the input tag is not supported in Internet Explorer 9 and earlier versions.</p>  </body>  </html> |

**The formmethod Attribute**

The formmethod attribute defines the HTTP method for sending form-data to the action URL.  
The formmethod attribute overrides the method attribute of the <form> element.  
The formmethod attribute can be used with type="submit" and type="image".

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_formmethod>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php" method="get">  First name: <input type="text" name="fname"><br>  Last name: <input type="text" name="lname"><br>  <input type="submit" value="Submit">  <input type="submit" formmethod="post" formaction="demo\_post.asp" value="Submit using POST">  </form>  <p><strong>Note:</strong> The formmethod attribute of the input tag is not supported in Internet Explorer 9 and earlier versions.</p>  </body>  </html> |

**The formtarget Attribute**

The formtarget attribute specifies a name or a keyword that indicates where to display the response that is received after submitting the form.  
The formtarget attribute overrides the target attribute of the <form> element.  
The formtarget attribute can be used with type="submit" and type="image".

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_formtarget>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  First name: <input type="text" name="fname"><br>  Last name: <input type="text" name="lname"><br>  <input type="submit" value="Submit as normal">  <input type="submit" formtarget="\_blank" value="Submit to a new window/tab">  </form>  <p><strong>Note:</strong> The formtarget attribute of the input tag is not supported in Internet Explorer 9 and earlier versions.</p>  </body>  </html> |

**The min and max Attributes**

The min and max attributes specify the minimum and maximum value for an <input> element.  
The min and max attributes work with the following input types: number, range, date, datetime, datetime-local, month, time and week.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_max_min>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  Enter a date before 1980-01-01:  <input type="date" name="bday" max="1979-12-31"><br>  Enter a date after 2000-01-01:  <input type="date" name="bday" min="2000-01-02"><br>  Quantity (between 1 and 5):  <input type="number" name="quantity" min="1" max="5"><br>  <input type="submit">    </form>  <p><strong>Note:</strong> The max and min attributes of the input tag is not supported in Internet Explorer 9 and earlier versions, or in Firefox.</p>  <p><strong>Note:</strong> The max and min attributes will not work for dates and time in Internet Explorer 10, since IE 10 does not support these input types.</p>  </body>  </html> |

**The multiple Attribute**

The multiple attribute is a boolean attribute.  
When present, it specifies that the user is allowed to enter more than one value in the <input> element.  
The multiple attribute works with the following input types: email, and file.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_multiple>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  Select images: <input type="file" name="img" multiple>  <input type="submit">  </form>  <p>Try selecting more than one file when browsing for files.</p>  <p><strong>Note:</strong> The multiple attribute of the input tag is not supported in Internet Explorer 9 and earlier versions.</p>  </body>  </html> |

**The pattern Attribute**

The pattern attribute specifies a regular expression that the <input> element's value is checked against.  
The pattern attribute works with the following input types: text, search, url, tel, email, and password.  
Tip: Use the global title attribute to describe the pattern to help the user.  
<http://www.w3schools.com/tags/att_global_title.asp>

Tip: Learn more about regular expressions in our JavaScript tutorial.  
<http://www.w3schools.com/js/js_regexp.asp>

Example: <http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_pattern>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  Country code: <input type="text" name="country\_code" **pattern="[A-Za-z]{3}"** title="Three letter country code">  <input type="submit">  </form>  <p><strong>Note:</strong> The pattern attribute of the input tag is not supported in Internet Explorer 9 and earlier versions, or in Safari.</p>  </body>  </html> |

**The placeholder Attribute**

The placeholder attribute specifies a hint that describes the expected value of an input field (a sample value or a short description of the format).  
The hint is displayed in the input field before the user enters a value.  
The placeholder attribute works with the following input types: text, search, url, tel, email, and password.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_placeholder>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  <input type="text" name="fname" **placeholder="First name"**><br>  <input type="text" name="lname" **placeholder="Last name"**><br>  <input type="submit" value="Submit">  </form>  <p><strong>Note:</strong> The placeholder attribute of the input tag is not supported in Internet Explorer 9 and earlier versions.</p>  </body>  </html> |

**The required Attribute**

The required attribute is a boolean attribute.  
When present, it specifies that an input field must be filled out before submitting the form.  
The required attribute works with the following input types: text, search, url, tel, email, password, date pickers, number, checkbox, radio, and file.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_required>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  Username: <input type="text" name="usrname" **required**>  <input type="submit">  </form>  <p><strong>Note:</strong> The required attribute of the input tag is not supported in Internet Explorer 9 and earlier versions, or in Safari.</p>  </body>  </html> |

**The step Attribute**

The step attribute specifies the legal number intervals for an <input> element.  
Example: if step="3", legal numbers could be -3, 0, 3, 6, etc.  
**Tip:** The step attribute can be used together with the max and min attributes to create a range of legal values.  
The step attribute works with the following input types: number, range, date, datetime, datetime-local, month, time and week.

<http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_step>

|  |
| --- |
| <!DOCTYPE html>  <html>  <body>  <form action="action\_page.php">  <input type="number" name="points" **step="3"**>  <input type="submit">  </form>  <p><strong>Note:</strong> The step attribute of the input tag is not supported in Internet Explorer 9 and earlier versions, or in Firefox.</p>  </body>  </html> |

**Practice #1**

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| Create a web page for registration as shown in the picture below:    1. The ID must be lower case English or number. More than 6 characters. No autocomplete. When the page is opened, the cursor must start here. Required field.  2. The password and retype password fields must be English or number. 6-10 characters. No autocomplete. Required field.  3. Gender field is a radio button. Required field.  4. Telephone must be number only. Autocomplete is allowed. Required field.  5. The email field allows autocomplete. Required field. |

**Practice #2**

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| Create a form for posting class materials on the class room on demand system.    1. File and title fields are required. |

**Practice #3**

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| Well, the point is that you can practice using input type: date.  Leave the password strength alone. |