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Lesson 10: Building Forms
  use forms to: acquire user input
               process requests
Initializina a Form
· (form) = to add a form to a page
           identifies where on the page control elements will appear
           eg. <form action = "/login" method = "post">
                           7 most common
  form attributes: action
                   method
 action attribute = contains the URL to which info included wlin the form will be sent for processing by the
                      server
  method attribute = HTTP method browsers should use to submit form data
Text Fields & Textareas
  used to collect text/string based data: text fields
                                       textareas
  <inpu+> = to obtain text from users → single line text field
             self · contained
    -format: <input type="type" name="name">
    Tattributes: type = to define what type of info is going to be captured win the control
                name = name of the control
                       submitted wlingut data to server
                                                          datetime
    Tnew html5 type attribute values: color
                                               date
                                    email
                                               month
                                                          number
                                                                        default fallback: text value
                                               search
                                    range
                                                          tel
                                               url
                                    time
                                                          week
        → (eq. <input type="date" name="birthday">)
        → (eg. input type="tel" name="phone-number">)
                                                                                     text that appears...
  tformat: <textarea name="name"> text that appears in textarea box </textarea>
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T sizing attributes: cols = width in terms of avg character width
                                                                       □ < css width & height
                       rows = height in terms of # of lines of visible text -
                                                                           properties
Multiple Choice Inputs & Menus
                                                                                         • female o male
 radio buttons = to select one option from a small list of options
            eg. <input type="radio" name="sex" value="female" checked> female \
                <input type="radio" name="sex" value="male"> male
   Tattributes: value = to distinguish choices
                checked = to preselect a button for users
 checkboxes = to select one or more options
              same format as radio buttons except for the type attribute value
      eg. <input type="checkbox" name="
<input type="checkbox" name="
<input type="checkbox" name="
 drop down lists = to select one option from a long list of options
                                                                                          Friday
 (select) = to wrap all the menu options
 <option> = to mark up each menu option
                                                                                          √ Friday
                                                                                             Saturday
             eg. <select name="day">
                                                                                             Sunday
                   <option value="Sunday" selected> Sunday </option>
                   <option value="Monday">Monday </option>
                   </select>
    t selected attribute = to preselect an option for users
                                                                                             Friday
 multiple attribute = to choose more than one option from a drop down list
                                                                                             Saturday
                    options aren't displayed like a drop down list
                                                                                             Sunday
                    user must hold down shift key + click to select
            eq. <select name="day" multiple>
                  <option value="Sunday" selected> Sunday </option>
                  </select>
Form Buttons
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used to process form data: submit input

submit button

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Send
    submit input = a submit button made using <input>
                                       self contained → can't wrap other content
         - format. <input type="submit" name="submit" value="text that appears wlin the button">
                                                                                                                                                                                                                               text to be dis...
    submit button = a submit button made using <button>
                                           more control over structure & design > submit input
                                           can wrap other content
                                           default type = submit
         t format: <button name="submit">
                                         text to be displayed wlin button
                                  </button>
Other Inputs
    hidden input =
                                         to pass data to the server wlo displaying it to users
                                          info isn't displayed on page, but can be accessed by page source code
                                          for non-sensitive/secure info that's not pertinet to user but is helpful when processing the form
                       deg.<input type="hidden" name="tracking-code" value="abc-123">)
                                                                                                                                                                                                        Choose File No File chosen
    file input = to allow users to add a file to a form
                                difficult to style file type input w/ css → browser default input style is used
         t format: <input type="file" name="name">
Organizing Form Elements
    organize forms & quide users how to properly complete them w/: labels
                                                                                                                                                 fieldsets
                                                                                                                                                  legends
                                                                                                                                                                                                                 Username
    <a href="#"><a hre
                             to include text that describes input/control
         T connect label to form control: for attribute value = form control id attribute value
                                                                                   wrap form control wlin element
                             eg. <label for="username"> Username </label>
                                     <input type="text" name="username" id="username">
                           eg. < label>
                                        <input type="radio" name="sex" value="female" checked> female
                                    < label>
                                        <input type="radio" name = "sex" value="male"> male
                                    </label>
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<fieldset> = to group form controls & labels into organized sections
                                                                                     Username Password
               block level element
               includes a default border outline
              eg. <fieldset>
                   < label>
                       Username
                      <input type="tex+" name="username">
                   (/label)
                   (label)
                      Password
                      <input type="text" name="password">
                   </label>
                / fieldset >
 <legend> = caption/heading for <fieldset> element
                                                                                     Username Password
             to describe form controls that fall w/in fieldset
             must come right after opening <fieldset> tag
             appears in top left of fieldset border
               eq. <fieldset>
                    <legend> Login </legend>
                    < label>
                        Username
                       <input type="tex+" name="username">
                    </label>
                    < label>
                       Password
                       <input type="text" name="password">
                    </label>
                  </ri>
Form & Input Attributes
 disabled attribute = turns off an element/control so it's not available for interaction/input
                     disabled elements don't send data to server for form processing
                     boolean attribute
                                                                                           Username
    - precedence: display overwrites hidden
             eg. <label>
                     Username
                     <input type="text" name="username" disabled>
                 placeholder attribute = hint/tip wlin form control of an <input> or <textarea> element
                        disappears once control is clicked in I gains focus
                                                                                       Email Address name@domain.com
                        shows form input format
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eq. < label>
                   Email Address
                   <input type="email" name="email-address" placeholder="name@domain.com">
               </label>
placeholder vs. value: value text stays in place unless user manually deletes it
specific use: placeholder → providing suggestions
              value → pre populating data
required attribute = enforces an element/form control must contain a value upon being submitted to the server
                     error message displays if element/control doesn't have a value → requests user to complete
                       required field
                     also checks if given input is a valid value of that control's type
                                                                                          Email Address
                                                                                                              Submit
                     boolean attribute
                                                                                          Email Address
                                                                                                              Submit
             eg. <1abel>
                                                                                                     Please fill out this field.
                    Email Address
                    <input type="email" name="email-address" required>
                 </label>
         T styling pseudo-classes:
                                      : optional
                                                     for invalid elements
                                      : required
                                                        form controls
additional attributes:
                                               autocomplete
                                                                          autofocus
                        accept
                                               formenctype
                                                                          formmethod
                        formaction
                        formvalidate
                                               formtarget
                                                                          max
                        maxlength
                                               min
                                                                          paHern
                                               selectiondirection
                        readonly
                                                                          step
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