

THE BASICS: FORMS

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FORM BASICS

RESPONSIVE REVIEW

AND THE HAMBURGER MENU

AGENDA

- Forms
- Form Elements
- Form Element Attributes
- Styling Form Elements
- Avoiding the backend
- Lab Time: Forms in your Project




FORM BASICS

FORMS

FORMS

How we can get data from users.

 **GENERAL ASSEMBLY** [Sign In](#)

FRONT-END WEB DEVELOPMENT

APPLY NOW

Where are you thinking of taking this course?

CONTINUE TO APPLICATION

Fill out some basic information and complete the following application to be considered for the course.

IMPORTANT NOTE

You can't do anything with the data you collect from your forms unless you are hooked-up to some kind of back-end processing. This is generally done via a Back-End language of some kind (e.g. PHP, Java, Ruby on Rails).

You can validate and manipulate the data on the Front-End, but purely via HTML/CSS/JS alone, you cannot save any data you collect, send an email, create a user account, check a password, etc...

FORM BASICS

FORM ELEMENTS

THE CONTAINER: <FORM>

Similar to a , the <form> doesn't have any inherent use, but it encapsulates the list items within it.

- Text Fields
- Radio Buttons
- Dropdowns
- Check Boxes
- Submit Buttons

http://www.w3schools.com/html/html_form_elements.asp

THE CONTAINER: <FORM>

<form>

<!--Data collection elements go here-->

</form>

FORM ATTRIBUTES: ACTION

The action attribute specifies where to send the form-data when a form is submitted (to be processed). In the following example: On submit, send the form-data to a file named "demo_form.asp" (to process the input):

```
<form action="demo_form.php" method="get">  
  <!--Data collection elements go here-->  
</form>
```

FORM ATTRIBUTES: METHOD

The method attribute specifies how to send form-data (the form-data is sent to the page specified in the action attribute). The form-data can be sent as URL variables (with method="get") or as HTTP post transaction (with method="post").

```
<form action="demo_form.php" method="get">  
  <!--Data collection elements go here-->  
</form>
```

FORM ATTRIBUTES: METHOD

Notes on GET:

- Appends form-data into the URL in name/value pairs
- The length of a URL is limited (about 3000 characters)
- Never use GET to send sensitive data! (will be visible in the URL)
- GET is better for non-secure data, like query strings in Google

Notes on POST:

- Appends form-data inside the body of the HTTP request (data is not shown in URL)
- Has no size limitations

ATTRIBUTE: NAME

Your form elements will look very nice presented on the page but if you hook up your form to a form-handling script, they will all be ignored. This is because the form fields need names so the backend knows what the data represents.

So to all of the fields we're going to cover, the attribute "name" needs to be added, for example `<input type="text" name="firstname">`.

ATTRIBUTE: VALUE

The value attribute specifies the value of an `<input>` element. It is used differently for different input types:

- For "text", "password", and "hidden" - it defines the initial (default) value of the input field (this changes when a user enters something)
- For "button", "reset", and "submit" - it defines the text on the button
- For "checkbox", "radio", "image" - it defines the value associated with the input (this is also the value that is sent on submit)

<INPUT> WITH THE “TYPE” ATTRIBUTE

The <input> tag specifies an input field where a user can enter or select data. An input field can vary in many ways, depending on the “type” attribute.

We’re going to cover: text, number, email, checkbox, radio and submit. More: http://www.w3schools.com/tags/tag_input.asp

<INPUT> : TEXT

An user can enter plain text in a text input field. Examples usage would be for a name or an address.

```
<input type="text" name="firstname" class="name" />
```

- *Get the value of this input field:* `$('name').val();`
- *Set the value of this input field:* `$('name').val("Kim");`

<INPUT> : NUMBER

An user can only enter a number in a number input field.
Examples usage would be for age or number of tickets.

```
<input type="number" name="age" class="age" />
```

- *Get the value of this input field:* `$('.age').val();`
- *Set the value of this input field:* `$('.age').val(16);`

<INPUT> : EMAIL

An user has to enter a *valid* email address in an email input field. Examples usage would be for collecting email addresses in a subscription form.

```
<input type="email" name="email" class="email" />
```

- *Get the value of this input field:* `$('.email').val();`
- *Set the value of this input field:* `$('.email').val("test@gmail.com");`

<INPUT> : SUBMIT

The submit input field renders as a button to submit the form. You can control the text that appears on the submit button with the value attribute. It is used interchangeably with the <button> tag.

```
<input type="submit" name="submit" class="subscribe-btn"  
value="Subscribe" />
```

- *Get the value of this input field:* `$('.subscribe-btn').val();`
- *Set the value of this input field:* `$('.subscribe-btn').val("Submitting...");`

BREAK

10 MINS

BREAK!

FORM BASICS

EXERCISE: BUILD A SIMPLE NEWSLETTER FORM

* Post to `newsletter.php`

<INPUT> : CHECKBOX

A checkbox input field is used to toggle on/off multiple responses by the user. Typically you would have more than one in a form (but with the same “name”). Example usage could be categories a user is interested in.

```
<div class="categories-group">  
  <input type="checkbox" name="categories" value="pop" class="category pop" />  
  <input type="checkbox" name="categories" value="r&b" class="category rb" />  
</div>
```

CHECKBOX ATTRIBUTE: CHECKED

* A boolean attribute (returns true or false)

The “checked” attribute is used to pre/auto-check a field and determine whether or not it’s checked in js.

- *Return all checked fields:* `$('.category:checked');`
- *Get the value of a field:* `$('.category.pop').val();`
- *Is this field checked (true/false)?* `$('.category.pop').prop('checked');`
- *Auto check this input field:* `$('.category.pop').prop('checked',true);`

AUTO CHECKED IN HTML

`<input type=“checkbox” name=“categories” value=“pop” class=“category pop” checked />`

<INPUT> : RADIO

A radio input field is similar to a checkbox except the user is only allowed one response. Typically you would have more than one in a form (but with the same “name”). Example usage could be a package option.

```
<div class="packages-group">  
  <input type="radio" name="packages" value="silver" class="package silver" />  
  <input type="radio" name="packages" value="gold" class="package gold" />  
</div>
```


RADIO ATTRIBUTE: CHECKED

* A boolean attribute (returns true or false)

The “checked” attribute is used to pre/auto-check a field and determine whether or not it’s checked in js.

- *Return all checked fields:* `$('.package:checked');`
- *Get the value of a field:* `$('.package.silver').val();`
- *Is this field checked (true/false)?* `$('.package.silver').prop('checked');`
- *Auto check this input field:* `$('.package.silver').prop('checked',true);`

AUTO CHECKED IN HTML

```
<input type="radio" name="packages" value="silver" class="package silver" checked />
```

<TEXTAREA>

Textarea is, basically, a large, multi-line textbox. The anticipated number of rows and columns can be defined with rows and cols attributes, although you can manipulate the size to your heart's content using CSS.

```
<textarea class="bio" rows="5" cols="20">A big load of text</textarea>
```

- *Get the value of this field:* `$('.bio').val();`
- *Set the value of this field:* `$('.bio').val("Submitting...");`

<SELECT>

The select tag works with the option tag to make drop-down of options for the user to select from. When the form is submitted, the “value” of the selected option will be sent..

```
<select>
```

```
  <option value=“Option 1”>Option 1</option>
```

```
  <option value=“Option Two” class=“test”>Option 2</option>
```

```
  <option value=“Option 3”>Option 3</option>
```

```
</select>
```

<SELECT>

The “selected” attribute is used to pre/auto-select an option in the dropdown and determine whether or not it’s selected in js.

- *Get the value of this field:* `$(‘select’).val();`
- *Auto select an option:* `$(‘select’ .test).prop(‘selected’,true);`

AUTO SELECTED IN HTML

`<option value=“Option 1” selected>Option 1</option>`

<LABEL>

The `<label>` tag defines a label for an form element. It does not render as anything special for the user. However, it provides a usability improvement for mouse users, because if the user clicks on the text within the `<label>` element, it toggles the control.

* The “for” attribute of the `<label>` tag should be equal to the `id` attribute of the related element to bind them together.

```
<label for="firstname">First Name</label>
```

```
<input type="text" name="firstname" id="firstname" />
```

FORM BASICS

EXERCISE: BEEF UP OUR NEWSLETTER FORM

* Add labels and a field for First & LastName

MORE ELEMENT ATTRIBUTES

PLACEHOLDER

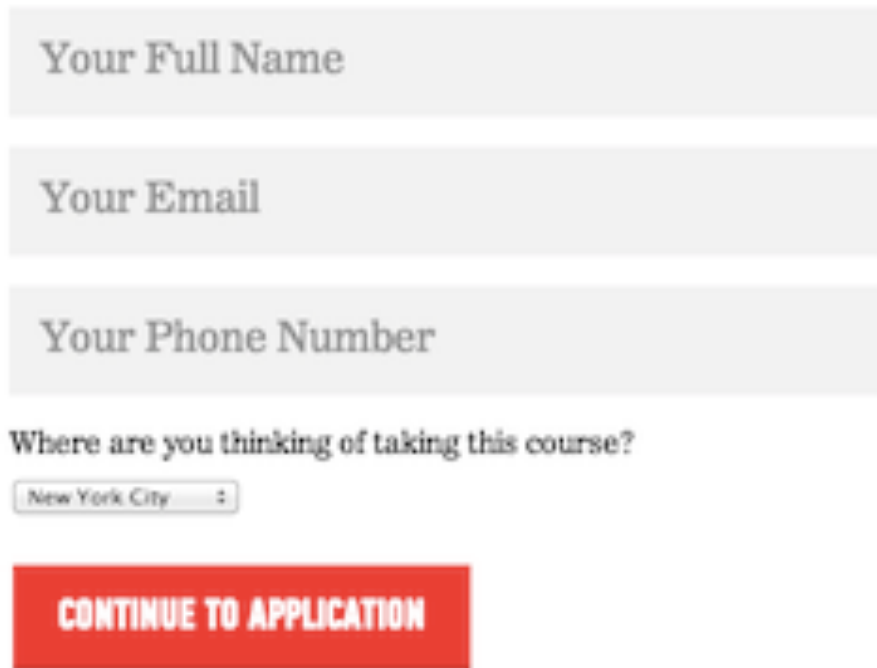
The “placeholder” attribute specifies a short hint that describes the expected value of an input field. It is displayed in the input field before the user enters a value.

USAGE

```
<input type="text" name="first_name" placeholder="First Name" />
```


USING THE PLACEHOLDER ATTRIBUTE

The placeholder attribute works with the following input types: text, number, email, password, search, url and tel.



A form example illustrating the use of the placeholder attribute. It consists of three text input fields, each with placeholder text: "Your Full Name", "Your Email", and "Your Phone Number". Below these is a label "Where are you thinking of taking this course?" followed by a dropdown menu showing "New York City" with a small arrow icon. At the bottom is a red button with the text "CONTINUE TO APPLICATION".

Your Full Name

Your Email

Your Phone Number

Where are you thinking of taking this course?

New York City

CONTINUE TO APPLICATION

DISABLED

* A boolean attribute (returns true or false)

The “disabled” attribute specifies that the `<input>` element should be disabled which means it is unusable and un-clickable. It can be set to keep a user from using the `<input>` element until some other condition has been met (eg. selecting a checkbox). Then, JS could remove the disabled value, and re-enable the `<input>`.

```
<input type=“text” name=“username” disabled>
```

* Disabled `<input>` elements in a form will not be submitted.

REQUIRED

* A boolean attribute (returns true or false)

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

```
<input type=“text” name=“username” required>
```

SUBMITTING FORMS

SUBMIT METHOD

The “submit” method submits the form to the provided action url (it’s the same as clicking the submit button). `$(‘form’).submit();`

You can also use this method to intercept the submission:

```
$(‘form’).on(‘submit’, function(event) {  
    event.preventDefault();  
    // do what I want with the form data  
});
```

FORM BASICS

STYLING FORMS

STYLING <INPUT> & <TEXTAREA>

Most css properties can be used to style <input> and <textarea> fields. To style a specific input field you can use attribute selectors.

```
input {  
  width: 100%;  
  height: 50px;  
}
```

```
input[type="text"] {  
  width: 80%;  
  border:solid 1px #333;  
}
```

```
input[type="email"] {  
  width: 300px;  
  padding:15px;  
}
```

Check it out: http://www.w3schools.com/css/css_form.asp

STYLING FOCUSED <INPUT>

By default, some browsers will add a blue outline around the input when it gets focus (clicked on). You can remove this behavior by adding `outline: none;` to the input.

```
input[type=text]:focus {  
    outline: none;  
}
```

```
input[type=text]:focus {  
    background-color: lightblue;  
}
```


STYLING CHECKBOXES OR RADIO BUTTONS – A TRICK

Checkboxes and radio buttons can't be styled but there is a work around. Using the `<label>` element we can simulate a click on a checkbox or radio button.

Example: <https://jsfiddle.net/kimgoulb/akwz4f9g/1/>

STYLING <SELECT>

<select> elements aren't so easy to style. You can use basic properties such as width, height, padding, background-color and some font styles but these will not affect the style of the inner <option> elements. These cannot be directly styled with css and will always hold the browser defaults.

* You can create custom dropdowns using and use that in your forms. Here's a tutorial: <http://tympanus.net/codrops/2012/10/04/custom-drop-down-list-styling/>

FORM BASICS

AVOIDING THE BACKEND

ONLINE SERVICES

There are services that will let you create forms that you can drop onto your site via iframe. <http://mashable.com/2012/02/16/web-form-builders/>

- Use a Google Form that you embed with an iframe to collect data.
- Use a service like <https://formsfree.io/> or <http://www.jotform.com/>
- Use a email subscription service like MailChimp / Constant Contact.

* There are also plenty of pre-existing contact forms used on popular CMSES, such as Squarespace or Wordpress.

FORM BASICS

LAB TIME

FORMS IN YOUR FINAL PROJECT

FORM BASICS

HOMework

FINISH YOUR FORMS

FORM BASICS

FINAL PROJECT

90% COMPLETE DUE TUES, MAR 15