WEEK 8 / LESSON 15:

FORMS & INPUTS

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LEARNING OBJECTIVES

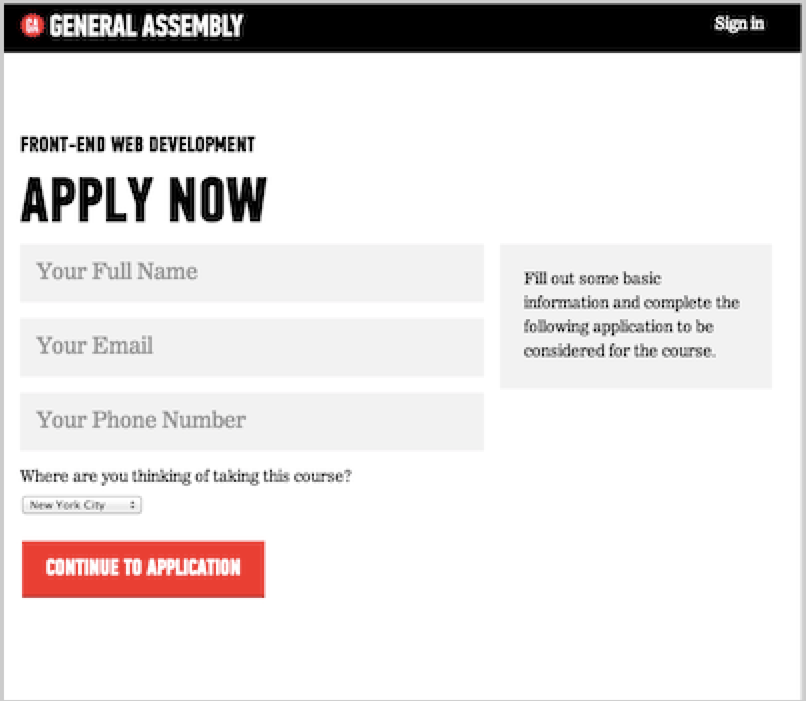
- Differentiate the different types of inputs and why/where we would use each
- Explain how to group elements
- Perform pseudo-styling of input elements that the browser won't let us directly style

TODAY'S SCHEDULE

- Forms overview
- Forms Lab

FORMS OVERVIEW

Getting data from users



GENERAL ASSEMBLY

Sign in

FRONT-END WEB DEVELOPMENT

APPLY NOW

Your Full Name

Your Email

Your Phone Number

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

Where are you thinking of taking this course?

New York City

CONTINUE TO APPLICATION

FORMS

Wrapper for data collection elements:

- Text fields
- Dropdowns
- Radio Buttons
- Checkboxes
- Buttons
- etc

A FORM TELLS THE PAGE:

- Where to send the data
- How to send it
- What is being sent

Forms can be used purely on the client side, or can send data to the server where it is acted upon or stored in a database.

FORM TAG

`<form> </form>`

Available Attributes:

- **method**: post, get
- **action**: url to send data to
- **enctype**: multipart/form-data if uploading files

```
<form action="register.php" method="post" enctype="multipart/form-dat
    <!--Data collection elements go here-->
</form>
```

INPUTS

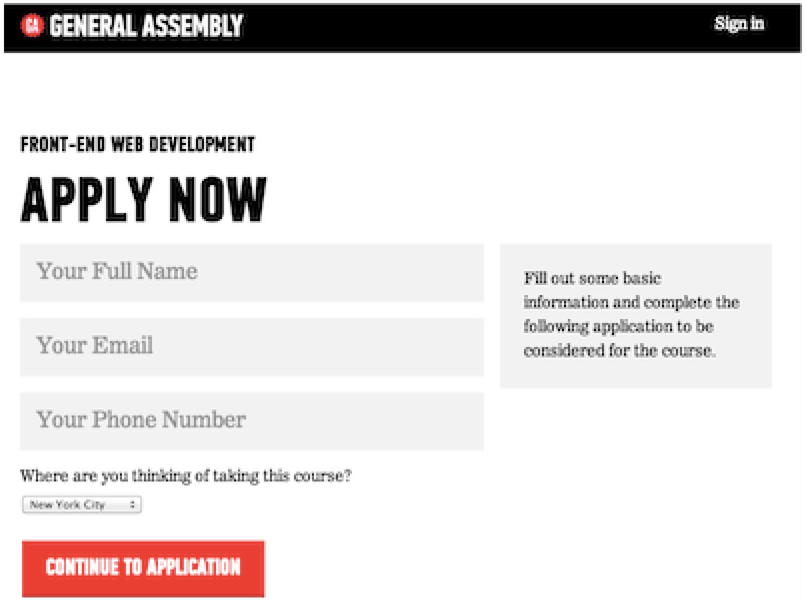
- Place between `<form> </form>` tags
- Attributes:
  - `type`: text, submit, password, email, checkbox, button, radio, file, etc
  - `value`
  - `placeholder`
  - `name` (used server side)

Note: font-family for an input is not inherited
(can lead to sizing issue on Mac vs PC due to different default font)

INPUTS: TEXT

Use value to set initial text

```
<input type="text">
```



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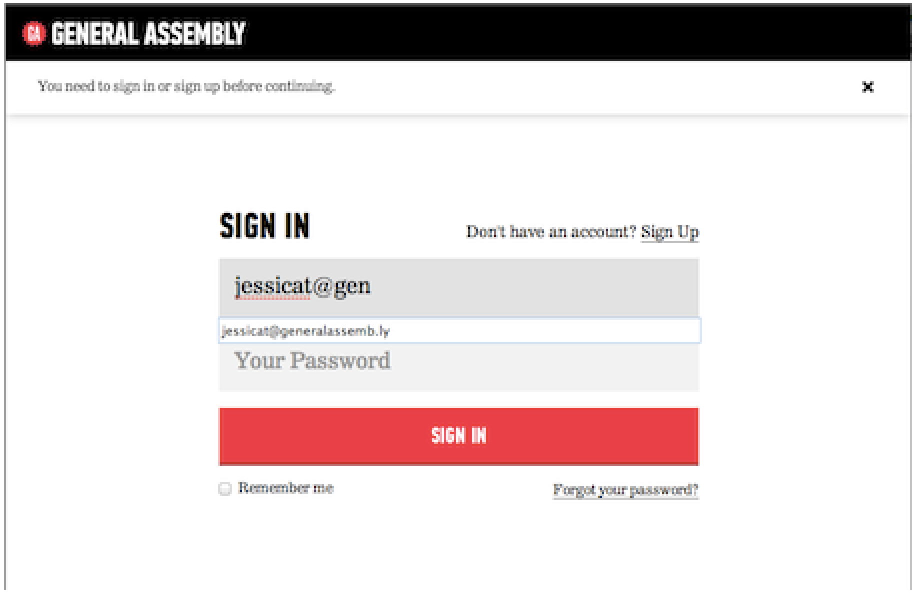
CONTINUE TO APPLICATION

INPUTS: EMAIL

Allows browser to autofill field

```
<input type="email">
```



You need to sign in or sign up before continuing.

SIGN IN

Don't have an account? Sign Up

jessicat@gen

jessicat@generalassemb.ly

Your Password

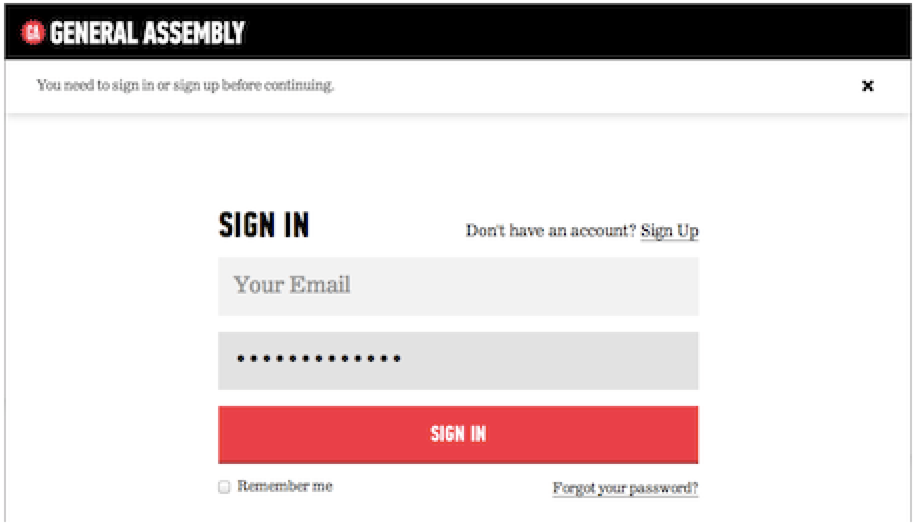
□ Remember me

Forgot your password?

INPUTS: PASSWORD

Hides characters as typed

```
<input type="password">
```



GENERAL ASSEMBLY

You need to sign in or sign up before continuing.

SIGN IN

Don't have an account? Sign Up

Your Email

••••••••••••••

INPUT BUTTONS

Form submit:

```
<input type="submit" value="Submit">
```

The value attribute is the button text.
Defaults to 'submit' in chrome, 'submit query' in IE

Form button: `<input type="button">`

File upload: `<input type="file">`

BUTTON BUTTONS

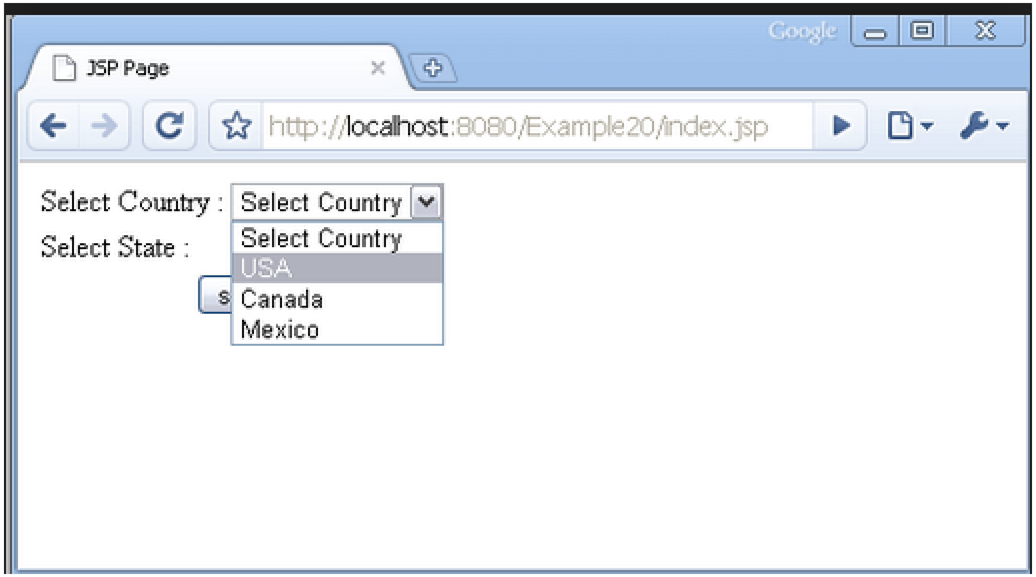
`<button type="submit">Submit</button>`

A button can be of three types: `submit`, `reset`, or `button`.

- a `submit` button - sends the form's data to the web page defined by the action attribute of the `<form>` element
- `reset` all the form widgets to their default (bad UX)
- a button `button` does... nothing!
  - amazingly useful to build custom buttons with JS

Button VS Input tags

SELECT AND OPTION


JSP Page
Google
http://localhost:8080/Example20/index.jsp
Select Country : Select Country
Select State :
Select Country
USA
Canada
Mexico

```
<select name="country">
    <option value="" selected>Select Country</option>
    <option value="usa">USA</option>
    <option value="canada">Canada</option>
    <option value="mexico">Mexico</option>
</select>
```

LABELS

Description of input field should be put in a `<label>` tag

To tie the two together choose one of these methods:

```
<label>Name: <input type="text" name="yourName"></label>
```

OR:

```
<label for="yourName">Name:</label>
<input type="text" name="yourName" id="yourName">
```

Note: Clicking the label text in either case places the focus in the input field (great for radio buttons)

FIELDSET/LEGEND

Fieldsets are a wrapper for grouped form elements

Eg: First, middle, last name text fields

Legend goes inside fieldset
(Defines the grouping term for the fieldset)

```
<fieldset>
    <legend>Your Name</legend>
    <input type="text" name="first_name">
    <input type="text" name="middle_name">
    <input type="text" name="last_name">
</fieldset>
```

STYLING OPTIONS

Checkboxes, file upload inputs, radio buttons can't be styled directly

One option:

```
/*   Opacity 0 on the element
/*   Set it's height and width to define clickable area
/*   Set the height and width of it's parent to be the same as the in
    (don't forget position relative)
/*   Style the parent */
```

Another option:

```
/*   Hide the element,
/*   style a corresponding label how you want element to appear */
```

RESOURCES

- Shay Howe: Building Forms
- MDN: My First HTML Form
- W3Schools: Forms / Elements, Input Types / Attributes
- HTML5 Rocks: HTML5 Forms / Client Side Validation
- Webdesign.com: Form Validation with CSS3/HTML5
- **Mailchimp**: build custom forms & collect form data

ADDITIONAL RESOURCES

- Browser Compatibility:
  - Can I use - HTML5 Form Features
  - Wufoo - The Current State of HTML5 Forms, Example HTML5 Form with Feature Testing
- Bootstrap: Forms / Buttons
  - Bootstrap Forms / CSS Reference via W3Schools
- parsleyjs.org - a JS form validation library

REGISTRATION FORM

Relaxr, Citipix or Final Project
(Assignment 8)