

# Front-End Web Development

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# **Start your engines!**

- Connect to wifi
- Open your text editor
- Open GitHub desktop and GitHub website
- Open schoology

# **Final Project Milestone 2**

- Draft HTML/CSS
- Pseudo code for JavaScript
- **Due this week - Wednesday 2nd March**

# Submit your assignment

- Assignment 5 - **Due this week - Wednesday 2nd March**
- **REMINDER:** No “auto” extensions - if you need an extension please do me the courtesy of asking me personally

## Reminder – Graduation requirements

- To graduate from the course, students must:
  - 1. complete at least 80% of assigned homework  
- 8 assignments so you can only miss one!
  - 2. attend 80% of classes - so you can miss up to a maximum of four
  - 3. satisfactorily complete the final project (as determined by the course instructor and stated on the class syllabus).

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**FEWD – LESSON 13**

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# **FORMS AND THINGS**

# What are we going to cover today?

- Lesson 12 Review
  - Code along - using a grid to design and make a website - 45min
- Forms - 45min
- Break 15min
- Forms Continued - 75min
  - Assignment 6
  - I'll chat to each of you individually about your Final Project while you work (those I missed on Wednesday)

# **LEARNING OBJECTIVES**

- Differentiate the different types of inputs and why/where we would use each.
- Explain how to group elements by name.
- Perform pseudo-styling of input elements that the browser won't let us directly style.
- Apply the method, action, and enctype attributes.



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**FEWD – LESSON 12**

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# **LESSON 12 REVIEW**

# **Grid based design and CSS grid use**

Let's apply a grid to a website together.

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**FEWD - LESSON 13**

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# FORMS

Course Application

Your Contact Info

Your Name

First

Last

Phone Number -  -

Address

Street Address

Address Line 2

City

State

Postal Code

Skills & Interests

Course

Select One

Past Experience

Anything Else?

Referral

None


Comments

Save Draft

Submit

# 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.

# Forms

- Wrapper for data collection elements
  - Text fields
  - Select boxes
  - Radio Buttons
  - etc

# Form Tag

`<form> </form>`

- Available Attributes
  - `method` - Post, get, put, delete
  - `action` - Url to send data to
  - `enctype` - multipart/form-data (if uploading files)

# Form Tag

## ▸ Example

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



# Inputs

- Place between `<form>` `</form>` tags
- Attributes
  - type - text, submit, password, email, checkbox, button, radio, file, etc
  - name - your specified value - Used server side
  - placeholder - value

# Inputs

- Note: Complete Spec: <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/input>
- Gotchas
  - The font-family for an input is not inherited!!!
  - This can lead to funny sizing issues on Macs vs. PCs where the default font is not the same

# Text input

`<input type="text">`

You can use `value` attribute to set default input.

You can `placeholder` attribute to set a placeholder description.

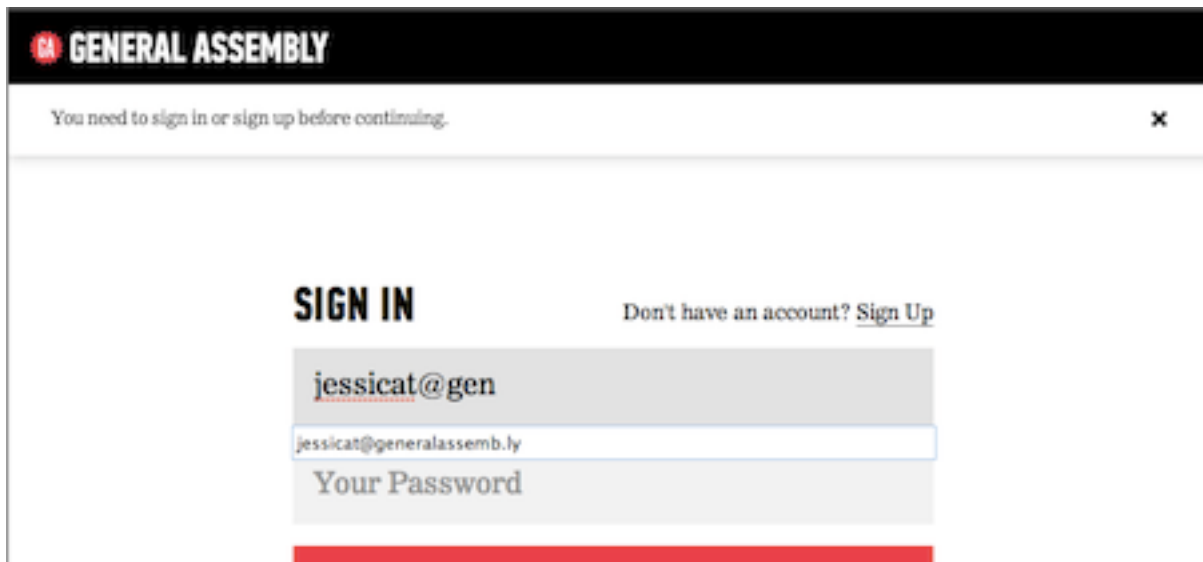


The screenshot shows a web form for General Assembly. At the top is a black navigation bar with the General Assembly logo on the left and a "Sign in" link on the right. Below the navigation bar, the text "FRONT-END WEB DEVELOPMENT" is displayed in a small, bold, sans-serif font. Underneath this, the words "APPLY NOW" are written in a large, bold, black, sans-serif font. The form itself consists of several light gray input fields. The first visible field is labeled "Your Full Name" in a light gray font. To the right of this field, there is a separate gray box containing the text "Fill out some basic information and complete the following application to be".

# Email input

`<input type="email">`

Also a text input but allows browser to autofill field



The screenshot shows a web interface for General Assembly. At the top is a black header with the logo and name. Below it is a white notification bar with a message and a close button. The main content area has a 'SIGN IN' heading and a link for users without an account. There are three input fields: an email field with 'jessicat@gen' and a dropdown showing 'jessicat@generalassemb.ly', a password field labeled 'Your Password', and a red submit button at the bottom.

**GENERAL ASSEMBLY**

You need to sign in or sign up before continuing. ✕

**SIGN IN** Don't have an account? [Sign Up](#)

jessicat@gen  
jessicat@generalassemb.ly

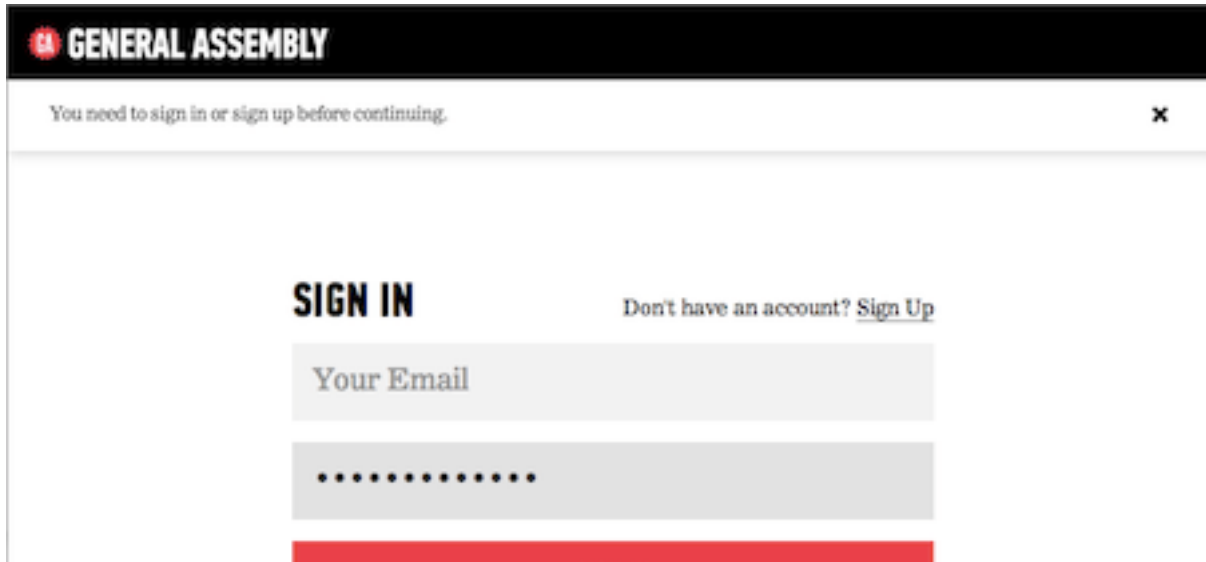
Your Password

[Red Submit Button]

# Email input

`<input type="password">`

Hides characters as typed



The screenshot shows a web interface for 'GENERAL ASSEMBLY'. At the top, there is a black header with the logo and name. Below the header, a message states 'You need to sign in or sign up before continuing.' with a close button. The main content area is titled 'SIGN IN' and includes a link for users without an account. The form contains two input fields: 'Your Email' and a password field represented by a series of dots, demonstrating the 'password' type attribute.

GENERAL ASSEMBLY

You need to sign in or sign up before continuing. ✕

**SIGN IN** Don't have an account? [Sign Up](#)

Your Email

.....

# Submit button

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

- › Creates a button that will submit the form when clicked.
- › Set the button text using the `value` attribute.
- › If you don't set value attribute it defaults to 'submit' in chrome and 'submit query' in IE

## Plain ol button

`<input type="button" value="a button">`

- › Creates a button that does nothing.
- › You need to make it do something with JavaScript.

## File button

`<input type="file">`

- › Creates a button that allows the attachment of a file to upload with form submission.



# **File button**

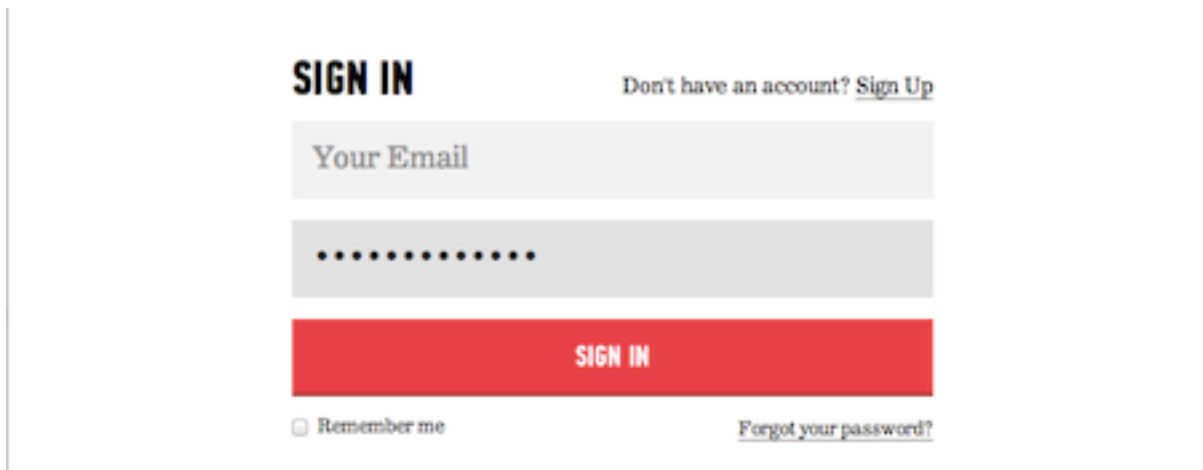
`<input type="file">`

- › Creates a button that allows the attachment of a file to upload with form submission.

# Checkbox

`<input type="checkbox" name="vehicle1" value="Bike">`

- › Creates a checkbox like remember me below



The image shows a sign-in form with the following elements:

- SIGN IN** (bold text)
- Don't have an account? [Sign Up](#)
- Input field with placeholder text: Your Email
- Input field with placeholder text: .....
- SIGN IN** (button text)
- ☐ Remember me
- [Forgot your password?](#)

# Radio

```
<input type="radio" name="gender" value="male">
```

```
<input type="radio" name="gender" value="female">
```

```
<input type="radio" name="gender" value="other">
```

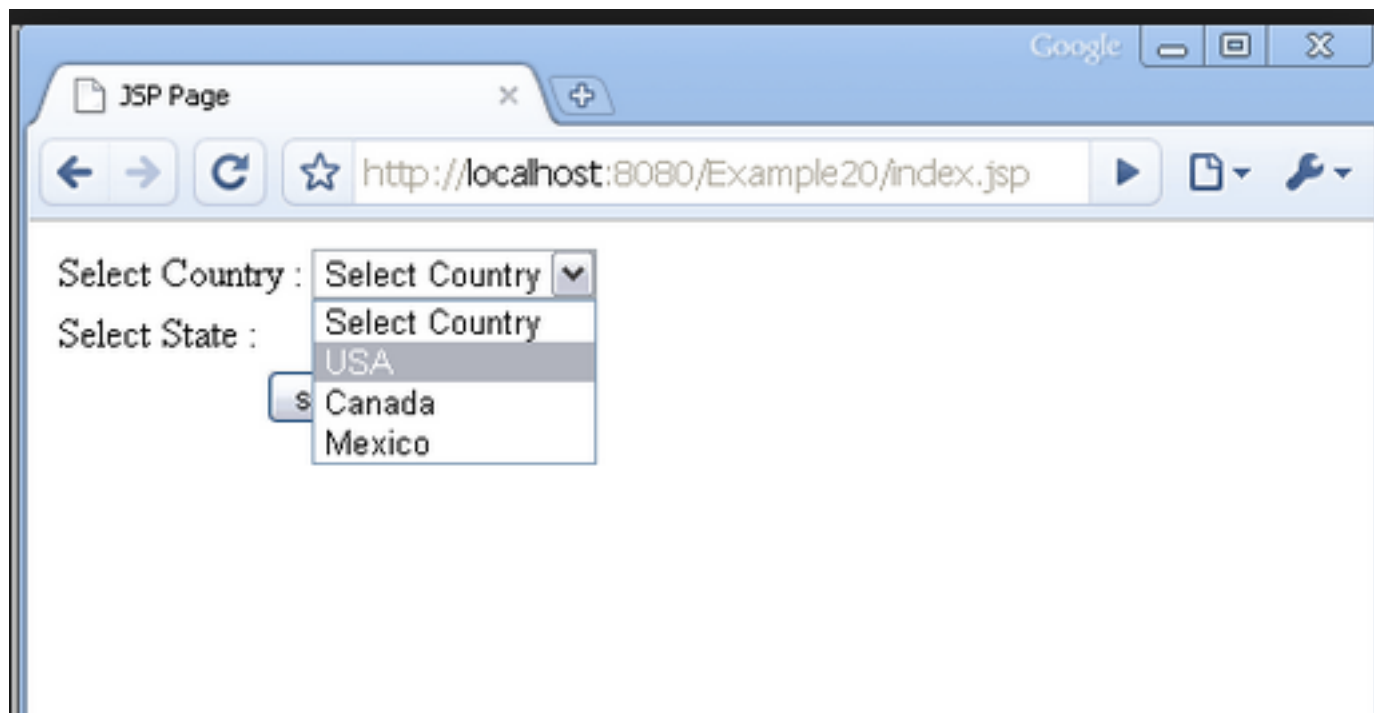
- Creates a radio button
- Used when you need to select only one of many specific values

# Select box

```
<select>
  <option value="male">Male</option>
  <option value="female">Female</option>
  <option value="other">Other</option>
</select>
```

- › Creates a dropdown select box
- › Good for long lists e.g. countries

# Select box



# Labels

- Information about the input field should be put in a `<label>` tag
- Tie the two together via `for` and `id` attribute:
  - `<label for="yourName">Name</label> <input type="text" name="yourName" id="yourName">`
- Note: Usability Clicking the label text in either case places the focus in the input field (great for radio buttons)
- For radio and checkbox put `<label>` after the `<input>` tag.

## More input types

- › HTML5 has the following new input types: color, date, datetime, datetime-local, month, week, time, email, number, range, search, tel, and url.
- › Explore them all here [http://www.w3schools.com/tags/att\\_input\\_type.asp](http://www.w3schools.com/tags/att_input_type.asp)

## Fieldset/Legend

- Used for grouping form elements into logical groups:

`<form>`

`<fieldset>`

`<legend>Personalia:</legend>`

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

`<label>Email:</label> <input type="text">`

`<label>Date of birth:</label> <input type="text">`

`</fieldset>`

`</form>`



# Styling forms

- › Styling forms is painful!
- › E.g. Checkboxes, File upload inputs, Radio buttons can't be styled directly, try:
  - › 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 input (don't forget position relative). Style the parent.
  - › Hide the element, style a corresponding label how you wanted the element to appear
  - › Try using pseudo elements and the selector :checked for no JS switching between checked and unchecked images used for styling

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# Assignment 6 - Forms

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## KEY OBJECTIVES

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Practice forms

## AGENDA

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*60 mins*

1. Download Assignment 6 from schoology
2. Code and style form

## DELIVERABLE

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Responsive website

## RESOURCES

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Assignment files including screen shots  
Code editor