Announcements

- Check class announcements daily
- You must implement programming projects by yourself
HTML Form Elements

Regarding the name property

- The name property is used by servers to process the data
- Most of the time we will set the name and id attributes to the same value
HTML Forms

- Forms → Previous examples of forms just collected data for processing by a JavaScript program
- Forms → Means by which information passes from the user to a server
- Submit button
  - Sends form data to a server application.
  - It is this special functionality that other buttons don’t have
- `<form tag>` → Two important attributes:
  - `action` → indicates where the form contents will be sent
  - `method` → defines how the contents will be sent
HTML Forms

- **Method → Two alternatives**
  - **post**
    - Contents sent using the HTTP POST method
    - Content is sent in the body of the message
  - **get**
    - Contents sent using the HTTP GET method
    - Contents included in the URL

- **Example:** formGet.html, getProcessing.php
- **Example:** formPost.html, postProcessing.php

- Important: You can only see the results if you have a web server running the .php files.
- Could you install a web server in your computer? Yes!
- **Windows →**

- **Mac →**
GET vs. POST

- **Get**
  - Information visible as it is displayed in the URL
  - Limited in the amount of information it can send
  - URLs associated with get can be bookmarked
  - Intended for operations that will not change the server state

- **Post**
  - Information is not presented in the URL
  - No limits on amount of information it can send
  - Because variables are not displayed in the URL it is not possible to bookmark the page
  - Intended for operations that will change the server state
  - Try reloading a form submitted using post. Why the warning?
Form Processing

- As we have seen, we need a server script/program to process the data we collect in a form and that is sent via submit.
- If you know the script/program to use you can develop your own customized form to provide a service (e.g., Google search).
- Make sure you name your form elements after the variables required by the script/program.
- Notice we are not using any JavaScript at the moment. We are focusing on what we can do with forms by relying on the server script/program for processing.
- **Example:** SearchBox.html
Form Validation

- Forms → We can validate the data associated with a form by recognizing the submit event
- Keep in mind that JavaScript can be disabled therefore the server application must also validate the data
- Example: formValidation.html, FormValidation.php
Debugger

- Allow us to see values of variables
- Allow us to execute statements one at a time
- Firebug Debugger
- Demo
CheckBoxes

- Allow us to make a selection
- Defined by using type=“checkbox”
- We can tell whether an entry is selected by using the “checked” property
  - true → entry has been selected
- Default selection by using checked=“checked”

**Example:** Checkboxes.html
Radio Buttons

- Exist in groups and only one can be checked in a group
- Defined by using type=“radio”
- We defined the radio buttons to be in the same group by using the same name for all of them
- Note: Do not use the same value for name and id
- Default selection by using checked=“checked”
- We access the elements using arrays
- `document.getElementsByName` → returns array
- **Example:** RadioButtons.html