Programming

- Why is programming fun?
  - Fourth is the joy of always learning, which springs from the non-repeating nature of the task. In one way or another the problem is ever new, and its solver learns something: sometimes practical, sometimes theoretical, and sometimes both.

Announcements

• How are you feeling about this unit on JavaScript?
Announcements

• Monday
  * Labs 7/8 are due by Noon
Announcements

- Project 2B will be available tonight
  * Just a few finishing touches left
  * Quiz part may not be available until Thursday or Friday
  * Due a week from Monday
Screen Input and Output

The form of `<form>`
JavaScript and HTML

- HTML is markup for Web content
- Web browser interprets HTML and displays the page
- JavaScript responds to user actions
  - Click button: onclick event
  - Hover over link: onmouseover
  - Enter data in forms: onsubmit
  - Change value in a form field: onchange
A short form

For example
<form>
  <p><input type="button" value="Press"> for good results</p>
  <p>Enter data here: <input type="text" name="x" size="20"> <br />
  Radio buttons:
  <input type="radio" name="y" value="right"> right or
  <input type="radio" name="y" value="left"> left</p>
</form>
A short form

For example

<form>
  <p><input type="button" value="Press" for good results</p>
  <p>Enter data here: <input type="text" name="x" size="20"> Radio buttons:
  <input type="radio" name="y" value="right"> right or
  <input type="radio" name="y" value="left"> left</p>
</form>
Demonstration

- The short form:
Forms

Input & Output in JS are given in forms

```html
<form>
  <input type="button" value="Press"> for good results<br>
  ...
</form>
```

* Inside `<form>` tags
* Notice
  - `type`
  - `value`
  - relationship to text
More Forms

* Notice
  - type
  - name
  - size
  - relationship to text
Radio Control

\[
\text{<form>}
\text{...}
\text{Radio buttons: } \text{<input type="radio" name="y"> Left or}
\text{<input type="radio" name="y"> right.}
\text{</form>}
\]

* Notice
  - type
  - name (common)
  - relationship to text
Input/Output

Text boxes are input or output based on your point of view ...

* Programming uses computer’s view
  - It’s obvious that buttons are inputs
  - Text boxes are inputs, but if the computer puts information in them, they’re outputs

Forms define the type of I/O and the processing