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

`<body style="background-color: #cccccc; margin-left: 20px;">
<h1>For example</h1>
<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>
</body>`
A short form

For example

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
Demonstration

• The short form:
Forms

Input & Output in JS are given in forms

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

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

Enter data here:
<input type="text" name="x" size=20> <br>

</form>

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

* Notice
  * type
  * name (common)
  * relationship to text

```html
<form>
  ...<br>
  Radio buttons: <input type="radio" name="y"> Left or<br>
  <input type="radio" name="y"> right.
</form>
```
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