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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.

Source: Frederick P. Brooks, Jr. *The Mythical Man-Month: Essays on Software Engineering.*

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Announcements

- How are you feeling about this unit on JavaScript?

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Announcements

- Monday
  * Labs 7/8 are due by Noon

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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

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Screen Input and Output

The form of <form>

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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

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```
<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>
```
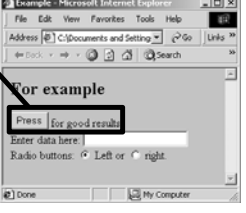
A short form

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```
<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"
  Radio buttons:
  <input type="radio" name="y" value=
  right or
  <input type="radio" name="y" value=
  left</p>
</form>
</body>
```


Demonstration

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- <u>The short form</u>:

Forms

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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

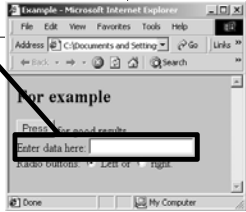## More Forms

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

- ∗ Notice
  - type
  - name
  - size
  - relationship to text

Radio Control

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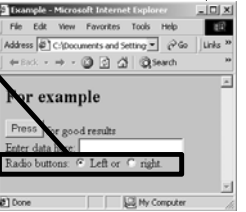
```
<form>
     ...
   Radio buttons:  <input type="radio" name="y"> Left or
                   <input type="radio" name="y"> right.
</form>
```
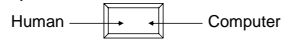
- ∗ Notice
  - type
  - name (common)
  - relationship to text

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Input/Output

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

Human ——— [→ ←] ——— Computer

∗ 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