



# 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*.



# 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



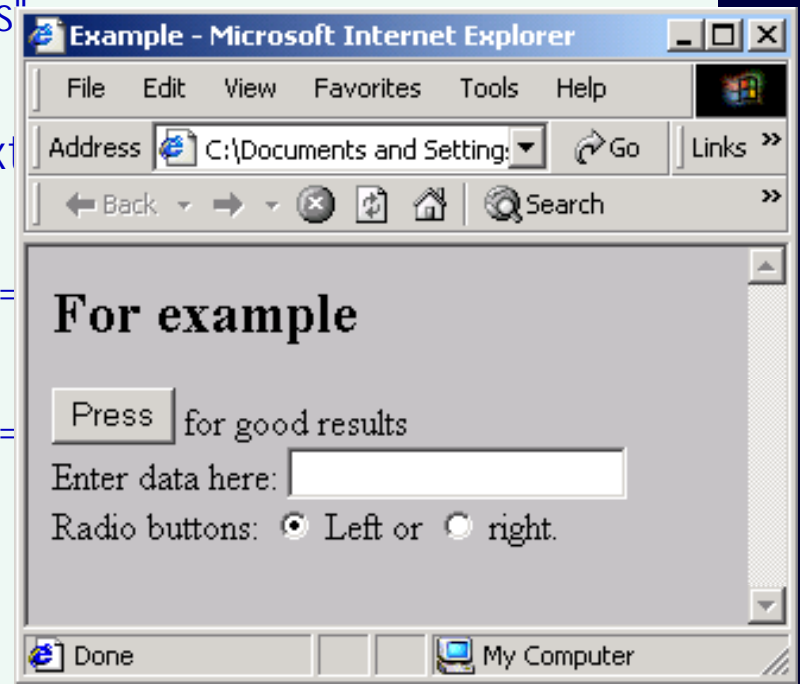
# A short form

```
<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

```
<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>
```

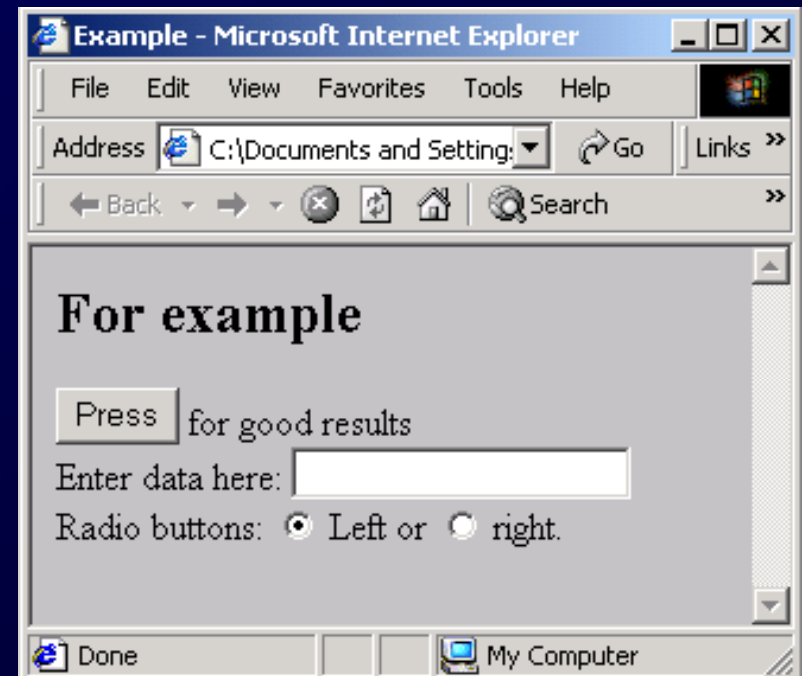






# Demonstration

- The short form:



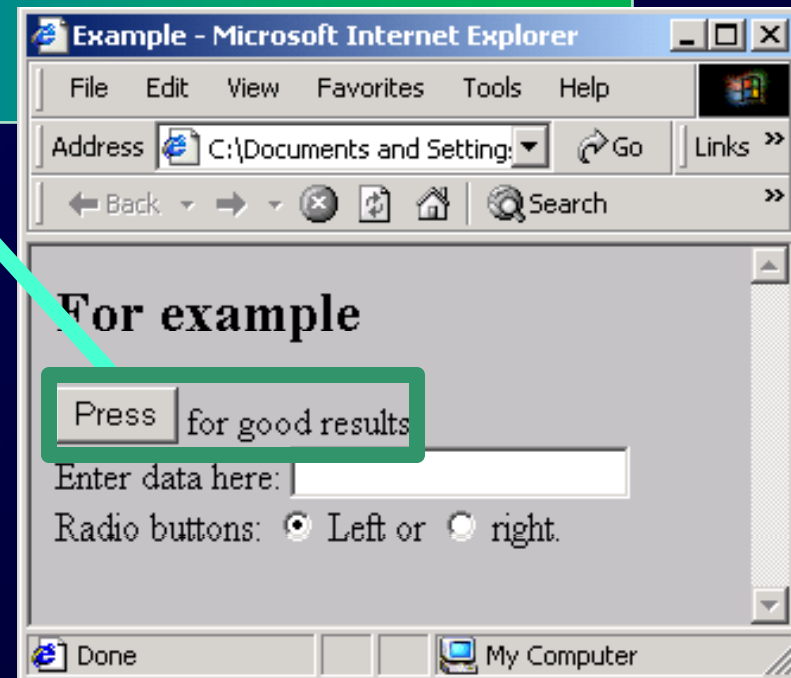


# Forms

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



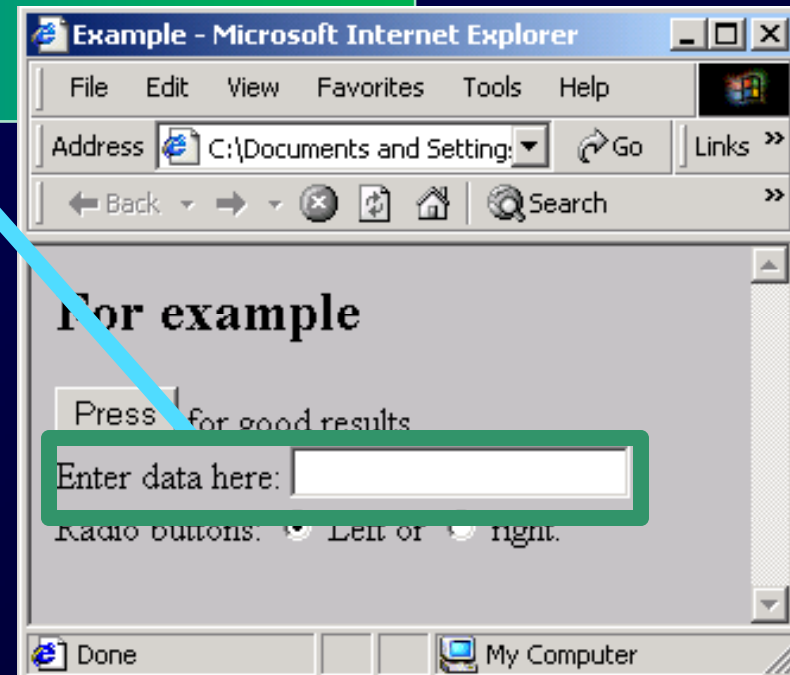


# More Forms

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

## \* Notice

- type
- name
- size
- relationship to text





# Radio Control

```
<form>
```

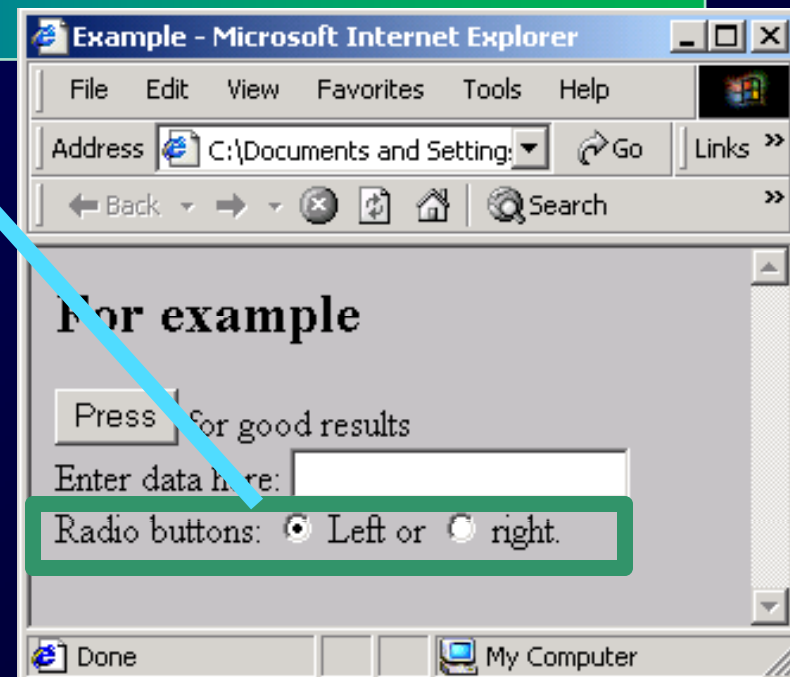
...

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

```
</form>
```

## \* Notice

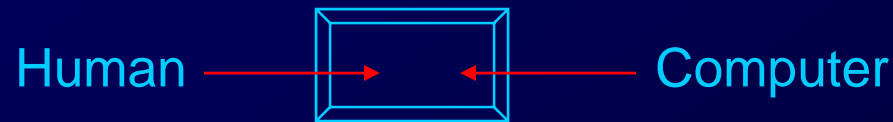
- type
- name (common)
- relationship to text





# 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