



# Screen Input and Output

The form of <form>

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# Manipulating Data

Last time, we saw JS put text (4) in the source file before finishing the page

- Now we see JS create buttons and windows, and manipulate data in the finished page



# 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

Windows are input or output based on your point of view ...



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

Forms define the type of I/O and the processing



## Name A Different Window

```

...
<input type="text" name=x size=8><br><br>
<hr><br>
Adding a smile to <input type="text" name="x2" size=2
onChange="x5.value = x2.value + '😊'"><br>
Adding a wink to <input type="text" name="x3" size=2
onChange="x5.value = '😉' + x3.value"><br>
Adding a frown to <input type="text" name="x4" size=2
onChange="x5.value = x4.value + '☹'"><br>
Makes <input type="text" name="x5" size=3>

```

`"x.value = x2.value + '😊'"`

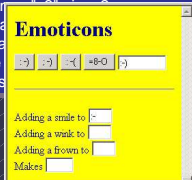
## Result

```

...
<input type="text" name=x size=8><br><br>
<hr><br>
Adding a smile to <input type="text" name="x2" size=2
onChange="x5.value = x2.value + '😊'"><br>
Adding a wink to <input type="text" name="x3" size=2
onChange="x5.value = '😉' + x3.value"><br>
Adding a frown to <input type="text" name="x4" size=2
onChange="x5.value = x4.value + '☹'"><br>
Makes <input type="text" name="x5" size=3>

```

`"x.value = x2.value + '😊'"`



## Conditional

Conditionals test if an expression is true or not

- General form ...

```

if ( <Boolean expression> )
  <Then statement>;

```

- For example

```

if ( day == "Friday" )
  evening_plan = "party";

```

## If-Then-Else

Branch both ways with If-Then-Else

```

if ( <Boolean expression> )
  <Then statement>;
else
  <Else Statement>;

```

- Example ...

```

if ( (year%4) == 0 ) {
  leapYear = true;
  febDays = febDays + 1;
}
else
  leapYear = false;

```

## Project 2: Exercise

### Larry's Memory Bank

a convenient table of all the computations I can never remember

Wed Feb 05 14:34:09 2003

Celsius to Fahrenheit	Celsius: <input type="text"/> Fahrenheit: <input type="text"/>
Fahrenheit to Celsius	Fahrenheit: <input type="text"/> Celsius: <input type="text"/>
Body Mass Index <input type="radio"/> English <input type="radio"/> Metric	Height: <input type="text"/> Weight: <input type="text"/> BMI: <input type="text"/>
Electronic Coin Flip	Flip: <input type="text"/> Outcome: <input type="text"/> Totals: H: <input type="text"/> T: <input type="text"/>
Pick A Random Number From 1 To 10	Pick: <input type="text"/> Outcome from the range: <input type="text"/>
Weight In Gold	Weight: <input type="text"/> lbs Worth As Gold \$: <input type="text"/>

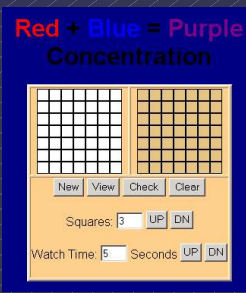
IMPORTANT LINKS

References ... [Arithmetic Dictionary](#) [Terminology](#)  
Classes ... [Linux Users](#) [Friends](#) [Links](#) [Countries by Geography](#)

I'm 586668948 seconds old. What am I doing with my life?  
Last Modified: 02/02/2003 01:15:32

## Purple Concentrate

Red + Blue = Purple Concentration



Squares:  UP DN

Watch Time:  Seconds UP DN