

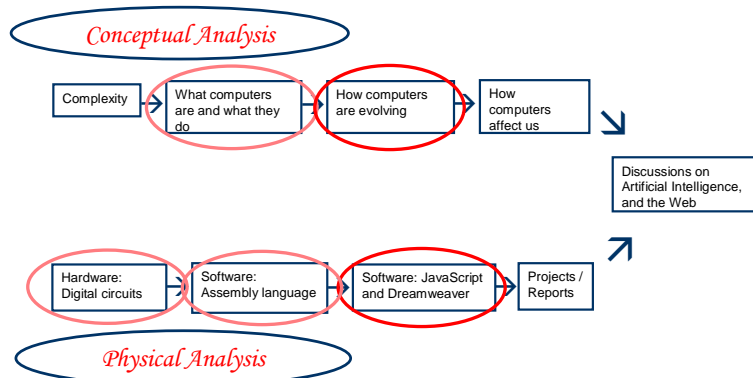
JavaScript Intro & Dreamweaver Screen Shots

CSC 103
October 10, 2007

Overview for Today

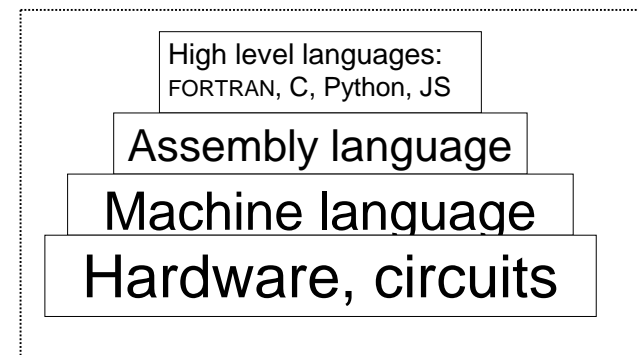
- Communicating with peripherals
- High level programming language – JavaScript
- Using Dreamweaver
 - Example 1: Simple ‘deposit’ form
 - Example 2: Personal greeting
- The World is Flat segment

How Computers Work: Semester Overview (Two paths for class discussions)



Hierarchy of Languages

- The process for people (natural languages) to communicate with computers:



Moving from Hardware to Software

- The CPU & main memory
 - Hardware components \Rightarrow circuits
 - Designed and organized to execute (binary) instructions
 - Conceptually like a row of dominoes
- CPU is automatically given the first instruction when the computer ‘boots up’
 - A clock circuit keeps everything moving on
 - Told where the first instruction is \rightarrow where does this show up with Pippin?

Preview of JavaScript and Decisions

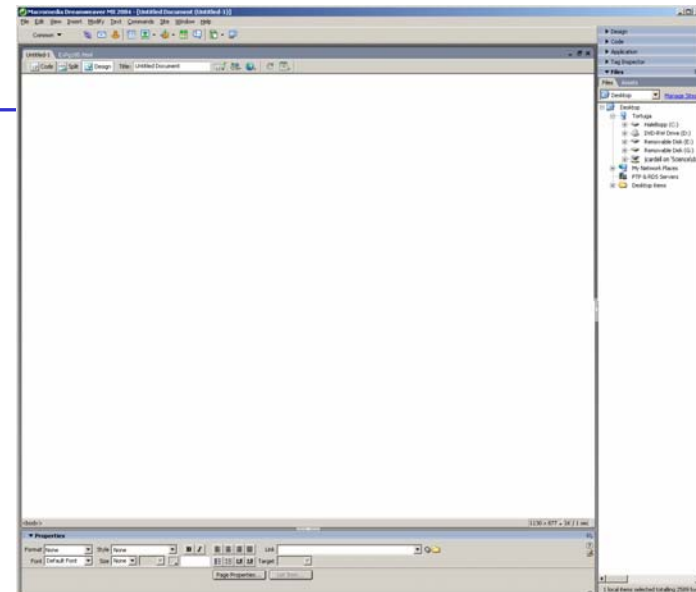
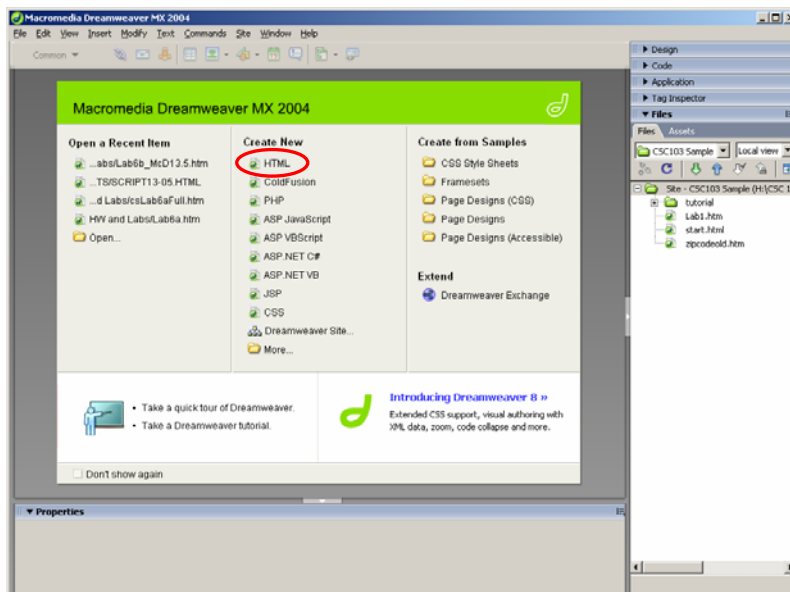
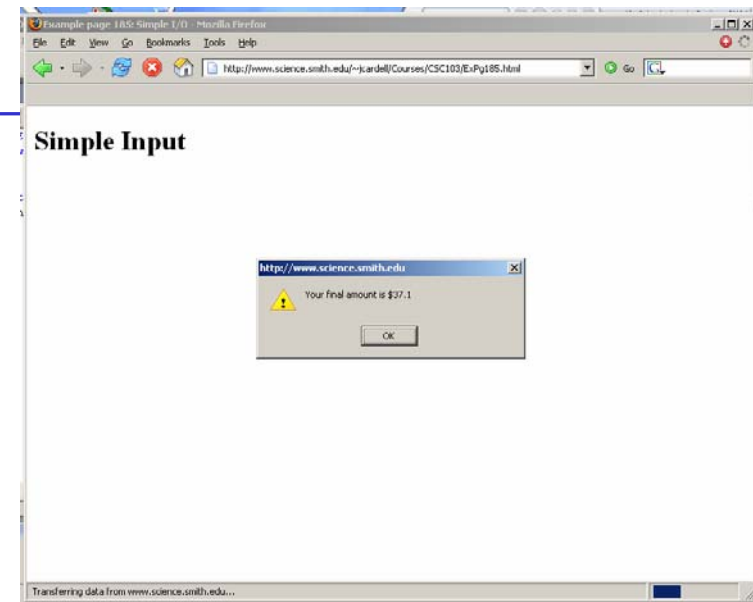
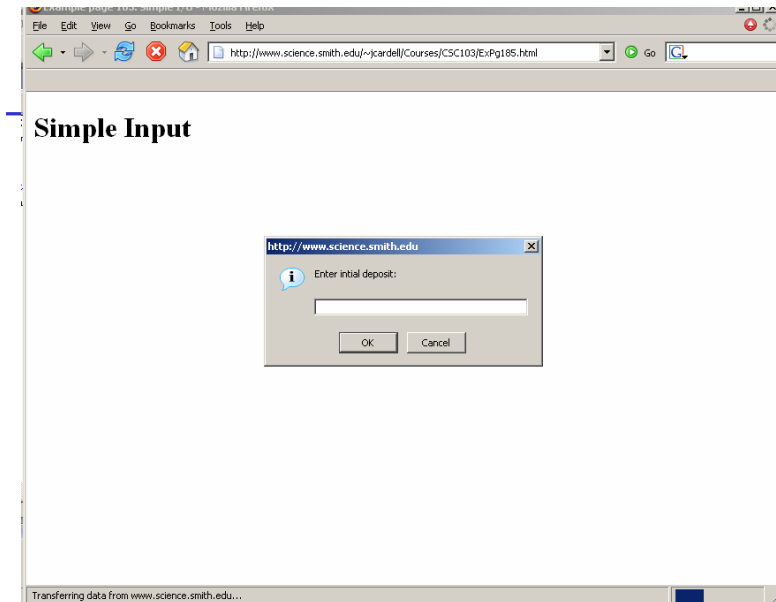
- Entering personal information to shop on-line
 - Name
 - Address
 - Zipcode \leftarrow Our next task
- Simple verification of information entered
 - If the zipcode entered is a number, continue. Otherwise, repeat request for zipcode.
 - If the zipcode entered is 5 digits long, continue. Otherwise...

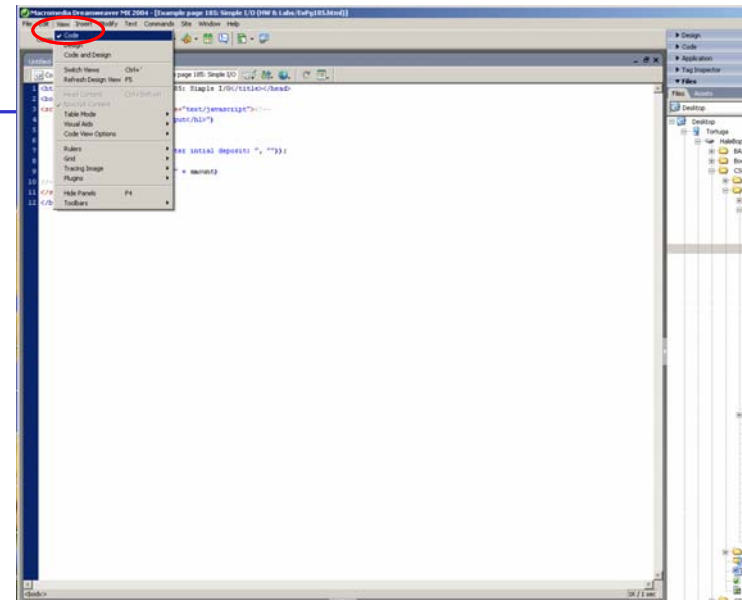
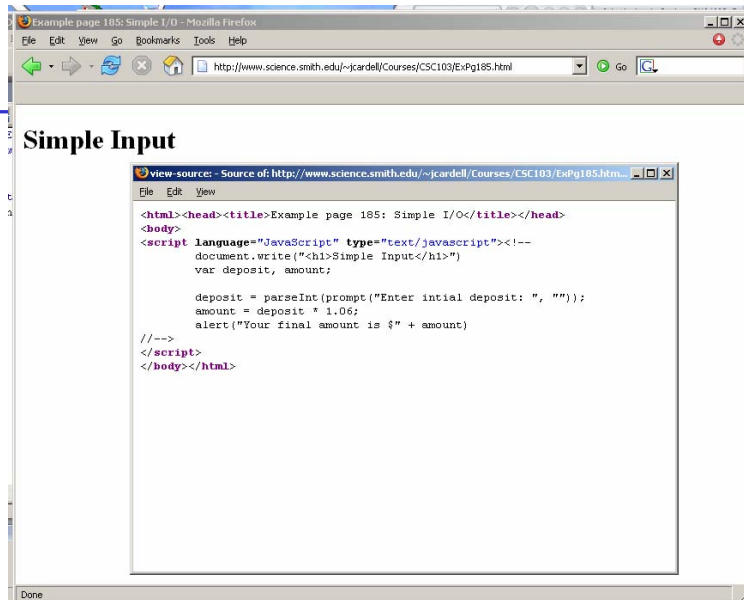
Program Control

- *Decisions*: If-else
- *Repeat*: Loops
- On-line shopping
 - Repeat: “Continue shopping?”
 - Decision: “Or proceed to checkout?”
- Setting preferences
 - Left- or right-handed mouse

Example Specifics

- Dreamweaver
 - Keyserved application
- HTML
 - Used to create web pages
 - Syntax uses “< >”
 - JavaScript works *with* HTML
- JavaScript
 - The high-level language we will use





HTML / JavaScript Code

```

<html>
<head>
<title> Example page 185: Simple I/O</title>
</head>
<body> <script language="JavaScript" type="text/javascript"><!--
    document.write("<h1>Simple Input</h1>")
    var deposit, amount;
    deposit = parseInt(prompt("Enter intial deposit: ", ""));
    amount = deposit * 1.06;
    alert("Your final amount is $" + amount)
//-->
</script>
</body>
</html>

```

Steps to Follow for Example

- Open Example 4 from the course page
 - <http://www.science.smith.edu/~jcardell/Courses/CSC103/>
- Enter your amount and click OK, twice
- Right-click and select “view page source”
- Copy and paste the HTML into Dreamweaver
- Save this file to your H: drive with .htm or .html extension

Practice Tasks

- Change the label from “Simple Input” to anything of your choosing
- Change the interest rate (from 1.06 to anything you want)
- Change the output statement from “Your final amount is \$” to anything you want

Example 5: ‘Hello’ Form <body>

```
<form name="NameIn">
  Enter your name:
  <input
    type="text"
    name="NameAns" >
  <input
    type="button"
    name="B1"
    value="Submit"
    onClick="document.NameIn.Output.value='Hello, '+doc...."; >
  <textarea
    name="Output"
    rows=4
    cols=50 >
  Answer shows here.
</textarea>
</form>
```