



COMS 465:
Computer Mediated Communication

Plan

- ▶ Review
- ▶ The Internet
- ▶ Preview

Review - Software

▶ Types

▶ Operating System

- ▶ 5 Functions
- ▶ Boot Process
- ▶ User Interface



Functions of the OS

- Boot the Computer
- Manage Programs
- Manage Memory
- Deal with I/O Devices
- User Interface

Boot Process

- BIOS
- POST
- Load OS
- Setup Configuration

Review - Software

- ▶ Types

- ▶ Applications



Review - Software

- ▶ Programming Languages
 - ▶ GL1 – Machine Language
 - ▶ GL2 – Assembler Language
 - ▶ GL3 – High-level Language
 - ▶ GL4 – Object Oriented Languages

```
0011001 0011001 0011001
1100110 1100110 1100110
1001010 1001010 1001010
0011001 0011001 0011001
1100110 1100110 1100110
1001010 1001010 1001010
```

```
/* Hello world for IA64 (Itanium) Assembly
*/
.HW:
.stringz "Hello World"
.text
.align 16
.global main#
.proc main#
main:
.prologue 14, 32
.save ar.pfs, r33
alloc r33 = ar.pfs, 0, 4, 1, 0

2
6, r12

loffx(.HW), r1

[r14], .HW

4
100 r30 = [r34]
br.call.sptk.many b0 = puts#
mov r1 = r35
;;
mov ar.pfs = r33
mov b0 = r32
.restore sp
mov r12 = r34
br.ret.sptk.many b0
```

```
program HelloWorld;

begin
  writeln('Hello World');
end.
```

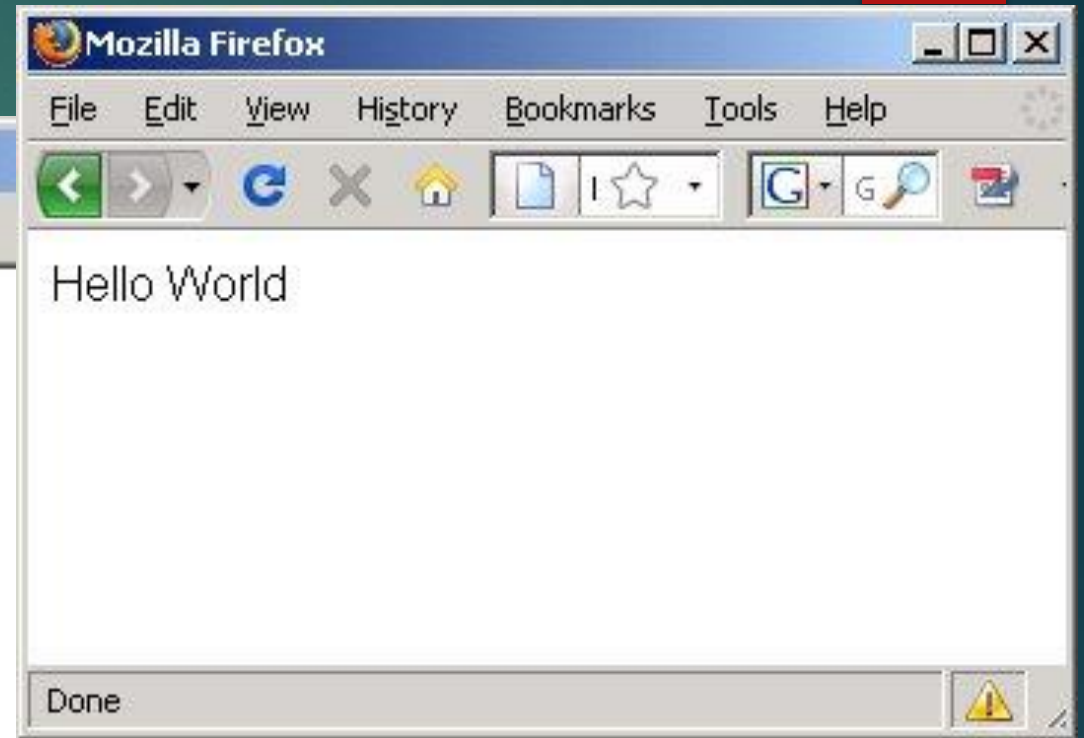
Review - Code Exercise

```
Untitled - Notepad
File Edit Format View Help

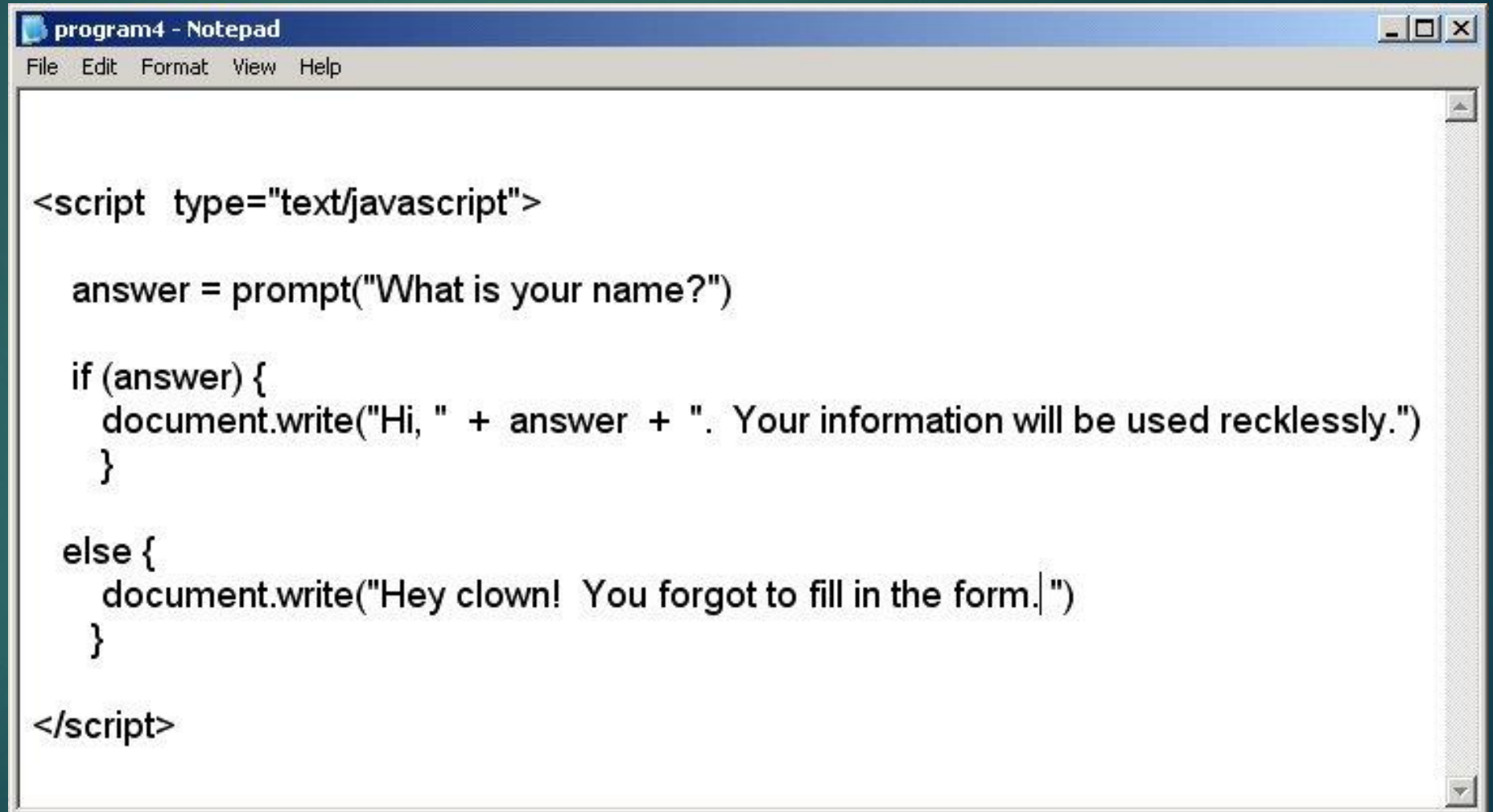
<script type="text/javascript">

    document.write("Hello World")

</script>
```



Review - Code Exercise



```
program4 - Notepad
File Edit Format View Help

<script type="text/javascript">

    answer = prompt("What is your name?")

    if (answer) {
        document.write("Hi, " + answer + ". Your information will be used recklessly.")
    }

    else {
        document.write("Hey clown! You forgot to fill in the form.")
    }

</script>
```

```
1 <script type="text/javascript">
2
3     var score = 0;
4     var answer1 = "ENIAC";
5     var question1 = prompt("What is the name
6     first fully programmable electronic compu
7     if (answer1 == question1)
8         {
9             score++;
10        }
11    document.write("Your score is " + score + ":")
12    if (score > 0)
13        {
14            document.write("<br>Good job...you win
15        }
16    else
17        {
18            document.write("<br>You are an idiot!")
19        }
20 </script>
```

File Edit View History Bookmarks Tools Help

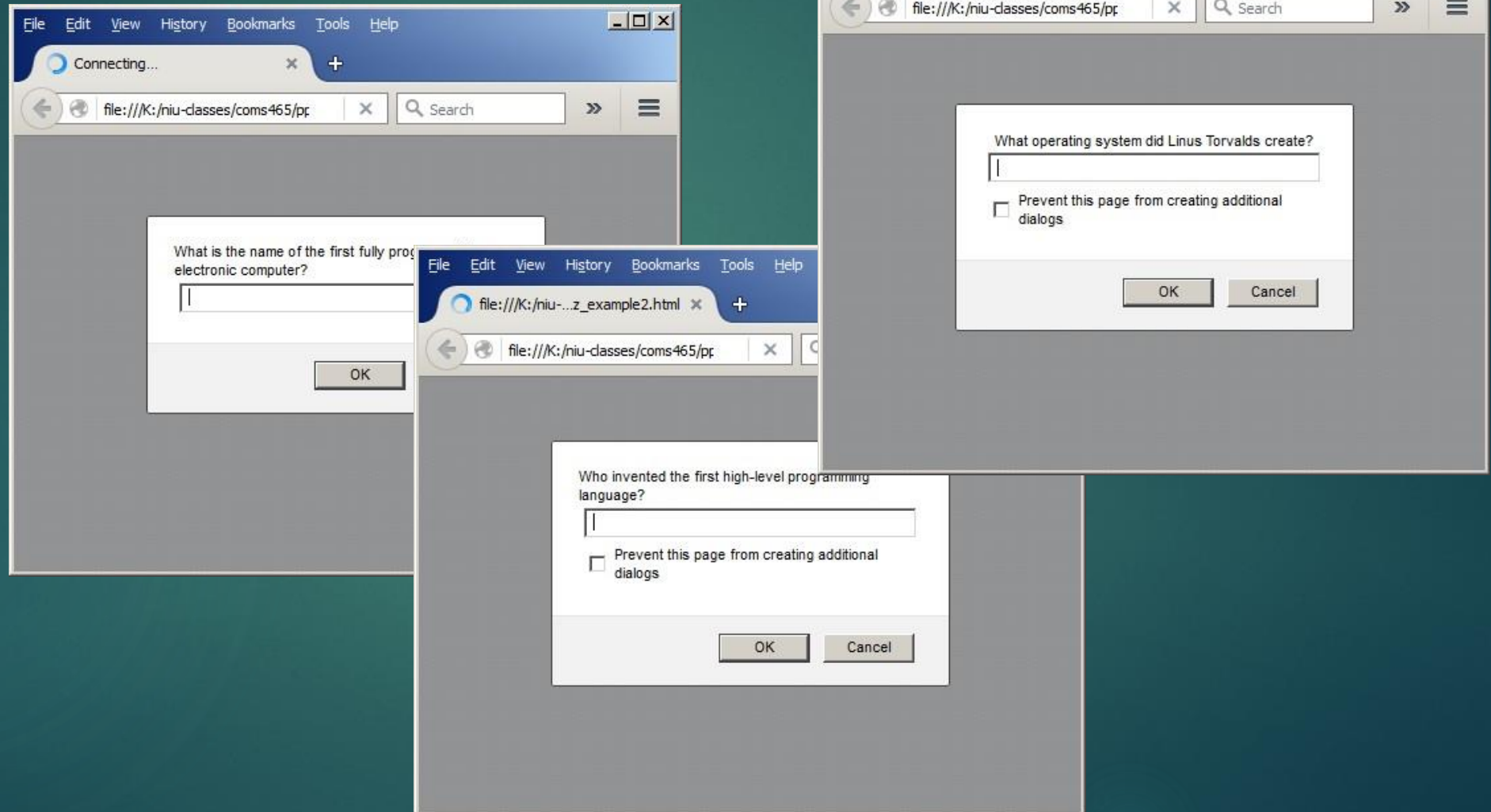
Mail - David GUNKEL - Outlook x Connecting...

file:///K:/niu-classes/coms Search

What is the name of the first fully programmable electronic computer?

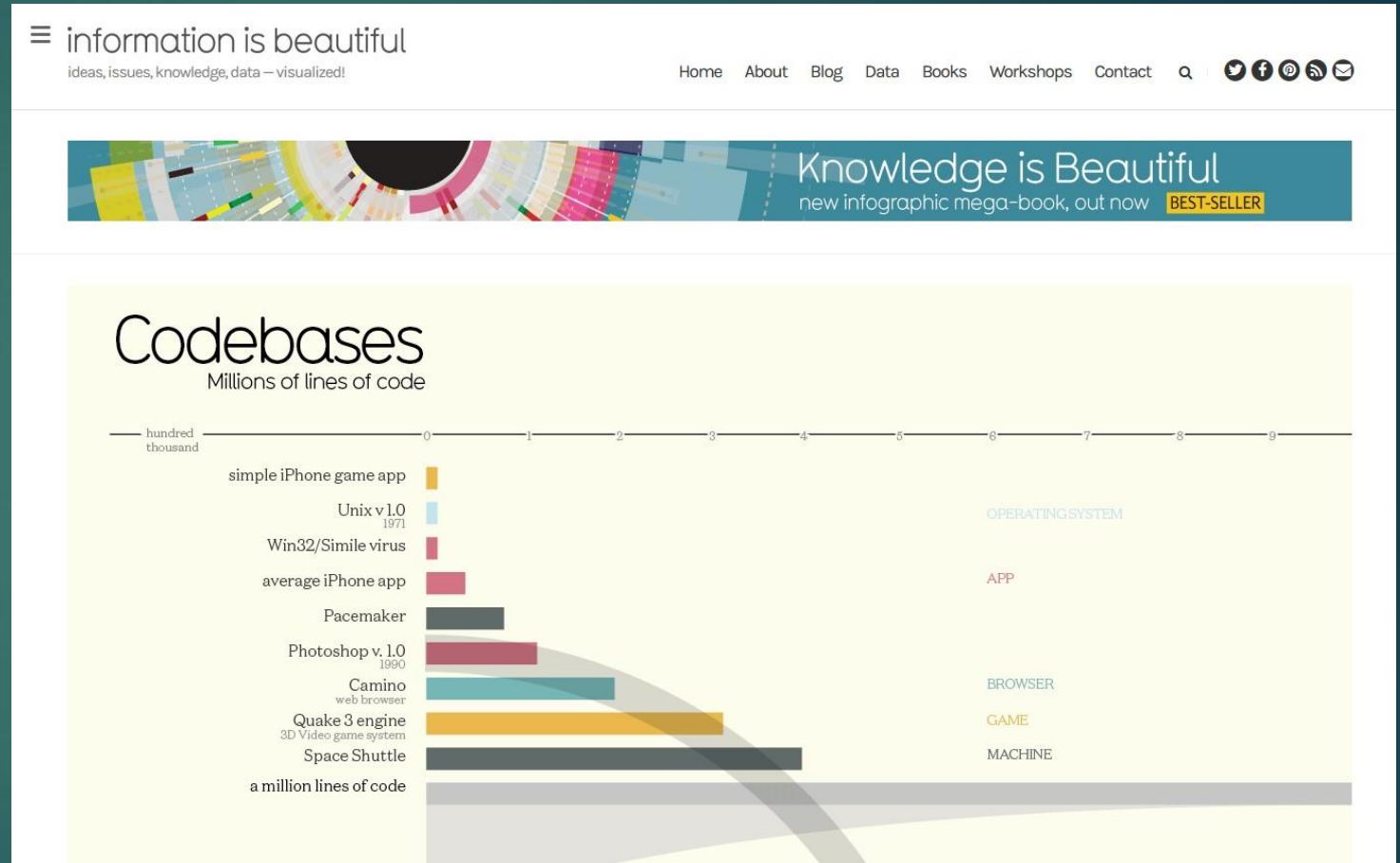
OK Cancel

Review - Code Exercise



```
1 <script type="text/javascript">
2
3     var score = 0;
4     var answer1 = "ENIAC";
5     var question1 = prompt("What is the name of the first fully programmable electronic computer?");
6     if (answer1 == question1)
7     {
8         score++;
9     }
10    var answer2 = "Grace Hopper";
11    var question2 = prompt("Who invented the first high-level programming language?");
12    if (answer2 == question2)
13    {
14        score++;
15    }
16    var answer3 = "Linux";
17    var question3 = prompt("What operating system did Linus Torvalds create?");
18    if (answer3 == question3)
19    {
20        score++;
21    }
22    document.write("Your score is " + score + ":");
23    if (score > 2)
24    {
25        document.write("<br>Good job...you win!");
26    }
27    else if (score > 1)
28    {
29        document.write("<br>Not bad...but you could do better.");
30    }
31    else
32    {
33        document.write("<br>You are an idiot!");
34    }
35
36 </script>
37
```

Review



<http://www.informationisbeautiful.net/visualizations/million-lines-of-code>

Review



<https://www.youtube.com/watch?v=wYpxr98UEfk>

Review

COMS 359

Interactive Media Production I

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Department of Communication
Northern Illinois University
Spring 2016

Remember...the task is to make this form. Try it out before class on Wednesday. We will talk about it as part of our review. Good luck with it.

COMS 359
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Remember...the task is to make this form. Try it out before class on Wednesday. We will talk about it as part of our review. Good luck with it.

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JavaScript Tutorial

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JavaScript is the programming language of HTML and the Web.

Programming makes computers do what you want them to do.

JavaScript is easy to learn.

This tutorial will teach you JavaScript from basic to advanced.

Next Chapter

editor, you can change all examples and view the

Google

Today

- ▶ The Internet
- ▶ Texts
 - ▶ Ceruzzi - Computing - ch. 6
 - ▶ Brief History of the Internet



Preview

- ▶ World Wide Web
- ▶ Texts
 - ▶ Computer History Museum - The Web
 - ▶ Conversation with Tim Berners-Lee (video)

