

Web and Distributed Programming

Session: Week 1 Session 2

Instructor: Eric Pogue



Agenda:

1. Friendly Conversation & Good Natured Banter
2. Review Course Calendar in Blackboard
3. Assignment Questions/Discussion
4. Distributed Computing and the World Wide Web
5. Lab: "Hello World – Text! EJP" (~15 min)
6. Assignments, Wrap-up, and Final Comments (~5 min)

Discussion & Questions welcome at any time... please be present with no phones or email during our discussion time

Assignment Questions/Discussion

Assignment from Monday:

- Review Syllabus thoroughly
- Read Ch.1.1 through 1.5 of Programming the World Wide Web 8th Edition, Robert W. Sebesta
- Prepare for Wednesday Lab by verifying access to:
 1. Personal laptop or a lab computer
 2. Web browser
 3. Text editor

Note:

There is an eBook option for World Wide Web 8th Edition, Robert W. Sebesta
... special thanks to Karl!

Course Objectives

On the successful completion of this course we will be able to:

1. Understand the ideas of Distributed Computing & the World Wide Web
2. Create web pages with HTML5 and CSS
3. Utilize a cloud based computing platform (Microsoft Azure) to host a basic website
4. Understand the best Web design practices
5. Create dynamic and interactive web sites using JavaScript
6. Understand XML and Web services
7. Understand basic database concepts and make simple SQL queries
8. Write PHP scripts to process forms and interact with databases
9. Understand the basics of the various software development lifecycle processes
10. Provide an overview of Perl, Java, and Ruby
11. Understand the Hadoop framework and MapReduce programs... or alternatively the AngularJS JavaScript framework

Distributed Computing & the Web

Time check... we need to start our Lab at 2:30.

Why have I changed the “Worldwide Web” to the “Internet”? By the end of this class it is your responsibility to know the difference.

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Lab: “Hello World – Text! EJP”

1. Log into your computer
2. Open your favorite text editor
3. Type in “Hello World – Text! [your initials]”... Please be specific*
 - Type in your initials and not ‘[your initials]’
 - For “Hello World – Text!” I would like you to use a standard dash ‘-’; however, in “Hello World – HTML” on Friday I would like you to utilize an em dash ‘–’ in your HTML5/UTF-8 code [\[link\]](#)
 - Do you understand the difference between ANSI and UTF-8? [\[link\]](#)
 - Bonus question for the day: One space or two spaces after a period (or an exclamation point)? [\[link\]](#)
4. Save your file as a text file utilizing dash-separated or Camel Case [\[link\]](#) naming
 - ‘hello-world-ejp.txt’... please use your own initials
 - ‘HelloWorldEJP.txt’ or
 - Why might we not want to utilize spaces in our file names? Or possibly even with all lower case letters as well? [\[link\]](#)
5. Now launch your Web Browser and open the file you have just saved
6. Save this file to a safe place where you will be able to find it later... how will you choose to name your folders?

Links:

<http://www.accesssc.com/articles/hyphen-en-dash-em-dash.html>

<http://www.differencebetween.net/technology/protocols-formats/difference-between-ansi-and-utf-8/>

http://www.slate.com/articles/technology/technology/2011/01/space_invaders.html

https://en.wikipedia.org/wiki/Camel_case

<https://www.thesitewizard.com/webdesign/create-good-filenames.shtml>

Assignment for Friday

Assignment (before next class):

- Ch.1.6 through 2.7
- Lab Preparation... review a HTML5 Hello World implementation from the Web [\[link\]](#)

Links:

https://www.w3schools.com/html/html5_intro.asp

Wrap-up

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I will be available after class if you need anything

Office hours 11 to noon tomorrow

Final Questions or Comments?

End of Session

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