



JavaScript Fundamentals: Course Introduction

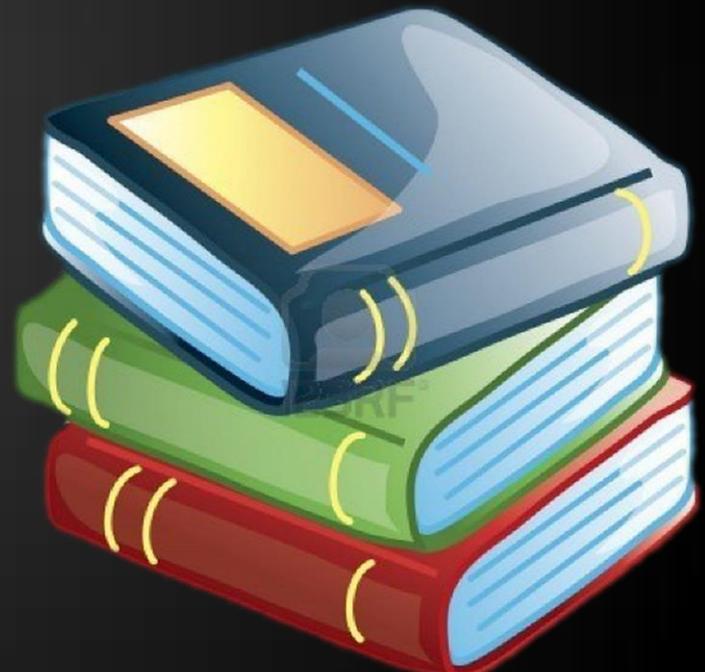
JS Course Program, Evaluation, Exams, Resources

Telerik Software Academy
Learning & Development Team
<http://academy.telerik.com>



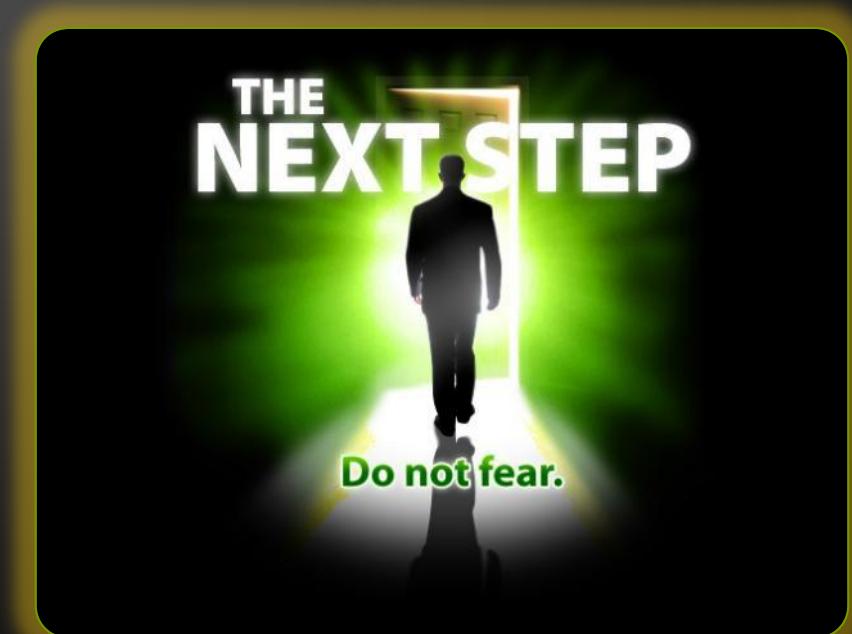
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JavaScript Fundamentals

Coming To The Next Module



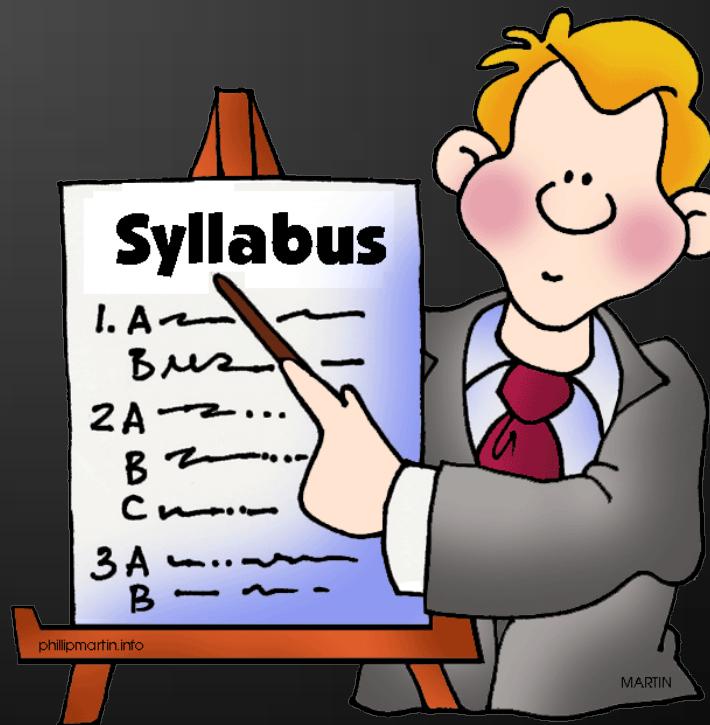
What's Coming Next?

- ◆ JavaScript Fundamentals
 - ◆ Continuation of CSS Styling and OOP
 - ◆ Fundamentals of JavaScript
- ◆ Pretty much the same
 - ◆ Lectures 3 times a week
 - ◆ Practical exam after a month
- ◆ The course exam?
 - ◆ 3-4 problems for 6 hours
 - ◆ <http://bgcoder.com>



JavaScript Fundamentals – Program

What Will We Cover in the JavaScript Course?



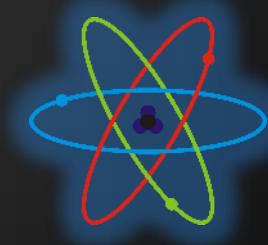
JavaScript Fundamentals - Course Program

- ◆ JavaScript Fundamentals Course Intro
 - ◆ Course Program, Exams, Evaluation
- ◆ Introduction to JavaScript development
 - ◆ Dynamic HTML (DHTML), JavaScript history, JavaScript usage, JavaScript syntax, helper objects (console, document), Tools



JavaScript Fundamentals - Course Program (2)

- ◆ Data types and variables -
 - ◆ Data types, numeric types, strings, dates
- ◆ Operators and Expressions
 - ◆ Bitwise operators, logical operators, boolean operators, expressions
- ◆ Conditional statements
 - ◆ if and if-else statements
 - ◆ switch-case statements



JavaScript Fundamentals - Course Program (3)

◆ Loops

- ◆ Loops in JavaScript, for loop, while loop, do-while loop, for-in loop

◆ Arrays

- ◆ Arrays, Array object, Array constructor, one-dimensional arrays, multi-dimensional arrays
- ◆ Manipulation of Arrays
 - ◆ Add, remove
 - ◆ Splice, clear, sort, etc...



JavaScript Fundamentals - Course Program (4)

◆ Functions

- ◆ Functions in JavaScript, with/without parameters

- ◆ arguments function object

◆ Using objects

- ◆ Creating objects, using objects, JSON objects

- ◆ Associative arrays

◆ Strings

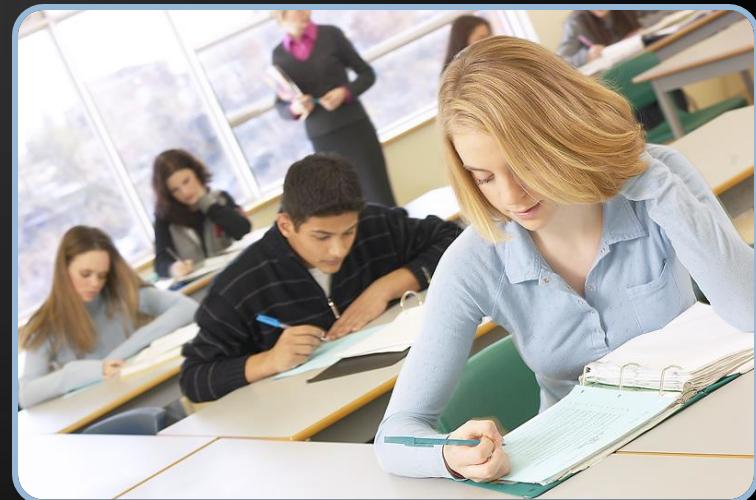
- ◆ Manipulation of strings

- ◆ String methods



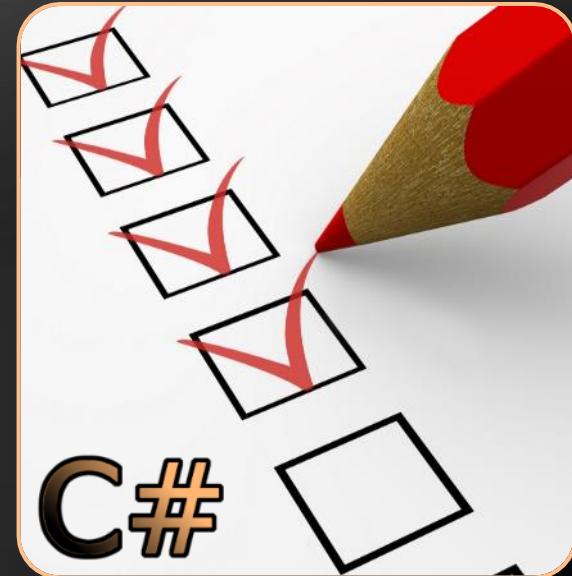
JavaScript Fundamentals - Course Program (5)

- ◆ Exam preparation
 - ◆ Solving problems with JavaScript
- ◆ Practical Exam



Evaluation

Thank God There Are Bonuses!



JavaScript – Evaluation

◆ Evaluation components

- ◆ Practical exam – 65%
- ◆ Homework – 15%
- ◆ Homework evaluation – 10%
 - ◆ 3 peer reviews per homework
- ◆ Attendance in class – 10%

◆ Bonuses

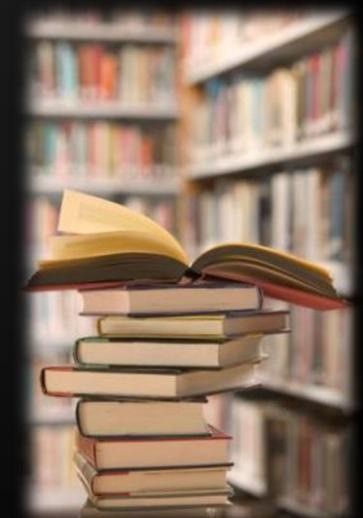
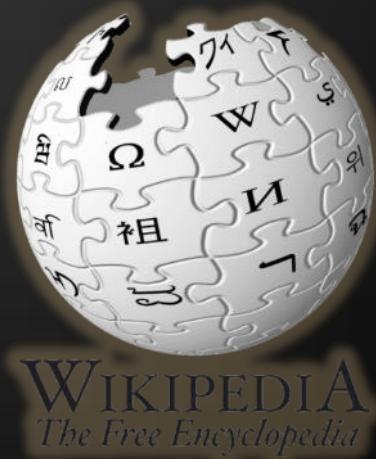
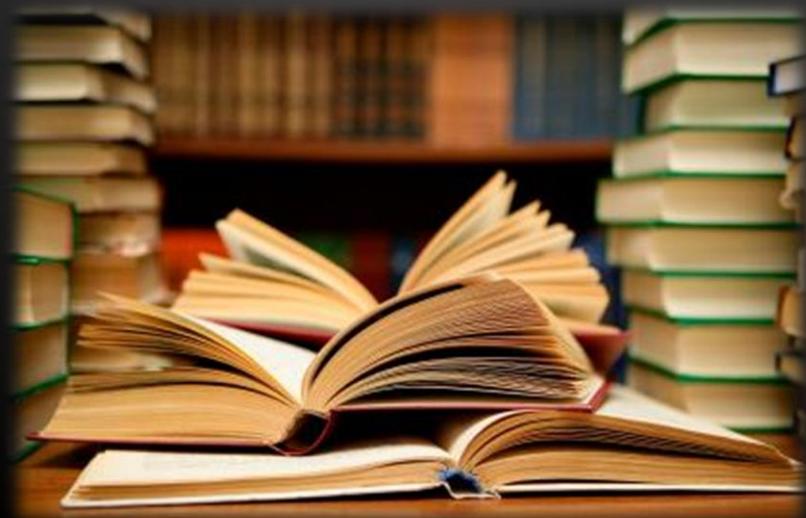
- ◆ Forums activity – bonus up to 5%





Resources

What We Need in Addition to this Course Content?



- ◆ Mozilla Development Network (MDN)
 - ◆ <https://developer.mozilla.org>
 - ◆ Mostly used for the presentations
- ◆ Web Platform
 - ◆ <http://www.webplatform.org>
 - ◆ The place where all masters contribute
 - ◆ Adobe, Apple, Facebook, Google, HP, Intel, Microsoft, Mozilla, Nokia, Opera, W3C



Course Web Site & Forums

- ◆ Register for the "Telerik Academy Forums":

<http://forums.academy.telerik.com/front-end-development/javascript-part-1>

- ◆ Discuss the course exercises with your colleagues
 - ◆ Find solutions for the exercises
 - ◆ Share source code / discuss ideas
-
- ◆ The JavaScript Fundamentals official web site:

academy.telerik.com/student-courses/programming/object-oriented-programming/about

Telerik Integrated Learning System (TILS)

- ◆ The Telerik Integrated Learning System (TILS)
 - ◆ www.telerikacademy.com
 - ◆ Important resource for all students
 - ◆ Homework submissions
 - ◆ Homework peer reviews
 - ◆ Presence cards with barcode
 - ◆ Reports about your results

The screenshot shows a course page for 'JavaScript - основи'. At the top, there's a navigation bar with links for 'Начало', 'Софтуерна академия', 'Курсове', 'Архив', 'Помощ', 'Вход', and 'Регистрация'. Below the navigation, the course title 'Курс "JavaScript - основи"' is displayed, followed by a checked checkbox labeled 'JavaScript част 1 - март 2013'. A detailed description of the course follows, including its purpose, start date (18/02/2013), end date (31/03/2013), and the number of lectures (1). A note states that the course ends at 23:59 on 28/02/2013. On the right side, there's a section titled 'Линено на материали:' with three small icons. Below this, a yellow banner says 'Срокът за записване на този курс е изтекъл!' with a warning icon. The main content area contains a table with course materials categorized by lecture type. The columns are 'Име на лекция' and 'Материали'. The rows include: 'Допълнителни ресурси от Уеб дизайн курса през 2012' (with links to 'Уеб дизайн с JavaScript, 2012 - онлайн с видео' and 'Форум към курса JavaScript - част 1'); 'Представяне на курса JavaScript Part 1' (with links to 'Видео - Донко Минков', 'Видео - Павел Колев', and 'Презентация'); 'Въведение в JavaScript' (with links to 'Видео - Донко Минков', 'Видео - Павел Колев', 'Презентация', and 'Демо'); and 'Типове данни и променливи' (with links to 'Видео', 'Презентация', and 'Демо').

telerikacademy.com/Courses/Courses/Details/173

Required Software

- ◆ Software needed for this course:
 - ◆ Microsoft Visual Studio 2013 or Visual Studio Express 2013 (free version of VS 2013)
 - ◆ Sublime Text
 - ◆ Komodo IDE
 - ◆ Notepad ++



JavaScript Fundamentals

Introduction



Questions?



Free Trainings @ Telerik Academy

- ◆ Web Design and UI Technologies
@ Telerik Academy

- ◆ html5course.telerik.com



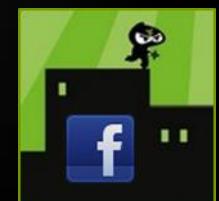
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