



JavaScript OOP: Course Introduction

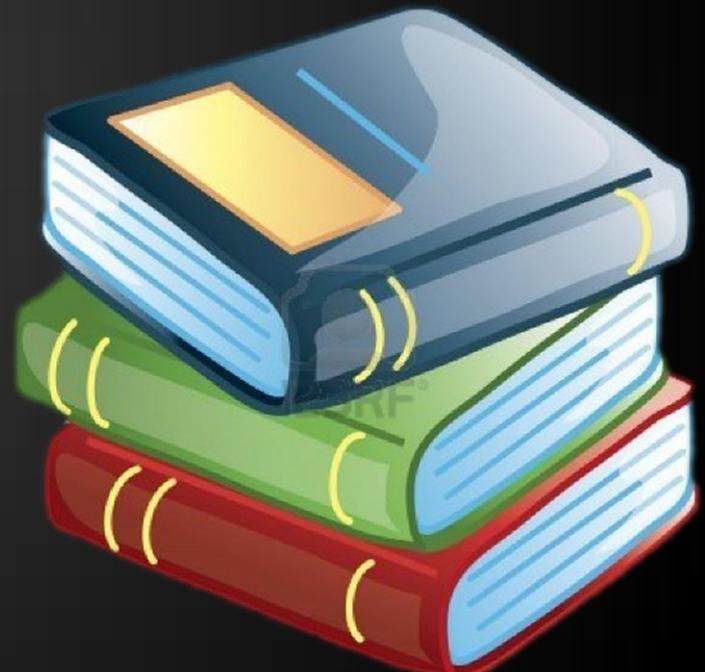
Course Program, Evaluation, Exams, Resources

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



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JavaScript OOP

About to make the next step



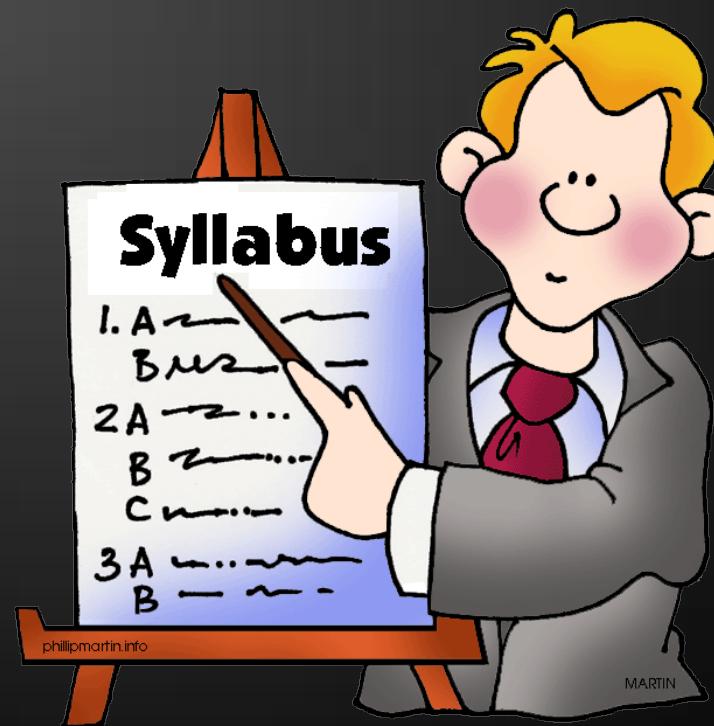
What's Coming Next?

- ◆ JavaScript OOP
 - ◆ Continuation of JavaScript UI & DOM
 - ◆ Diving into design of modern JS apps
- ◆ Pretty much the same
 - ◆ Lectures 2 times a week
 - ◆ Practical exam after two weeks
- ◆ The course exam
 - ◆ Yet to be discovered



JavaScript OOP: Course Program

Material to cover during the course

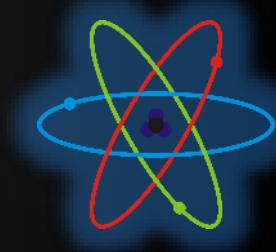


JavaScript OOP: Course Program

- ◆ "JavaScript OOP" course introduction
 - ◆ Course Program, Exams, Evaluation
- ◆ Functions and Function Expressions
 - ◆ Advanced topics about functions
 - ◆ Immediately-invoked function expressions
 - ◆ Scopes
 - ◆ Closures
 - ◆ Modules

JavaScript OOP: Course Program (2)

- ◆ Classical OOP in JavaScript
 - ◆ Function constructors
 - ◆ Methods and fields
 - ◆ Hidden/public data
 - ◆ Performance
- ◆ Inheritance with Classical OOP
 - ◆ Implementing inheritance in JS
 - ◆ The prototype chain



JavaScript OOP: Course Program (3)

◆ Modules and Patterns in JavaScript

- ◆ Modules
- ◆ Revealing Module pattern

◆ AMD and Require.JS

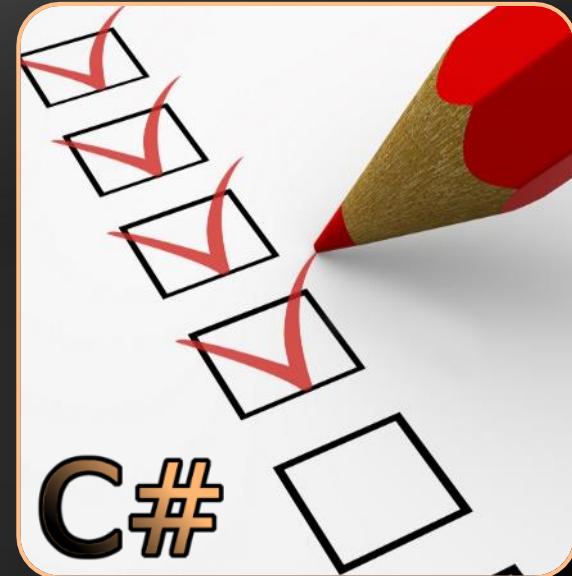
- ◆ Asynchronous Module definition
- ◆ Dependent modules with Require.JS
- ◆ Lazy loading



- ◆ **Creating and Using Exceptions**
 - ◆ Try-catch blocks
 - ◆ Using built-in exceptions
 - ◆ Creating custom exceptions
- ◆ **Exam preparation**
 - ◆ Solving tasks for the exam
- ◆ **Practical exam**

Evaluation

Thank God There Are Bonuses!



JavaScript – Evaluation

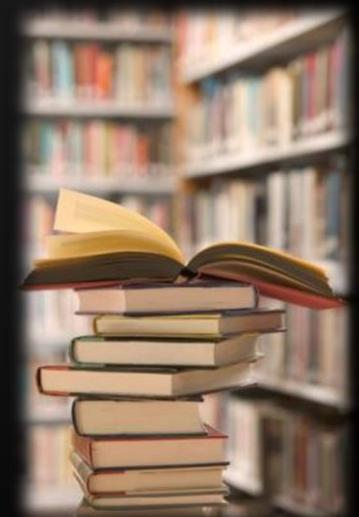
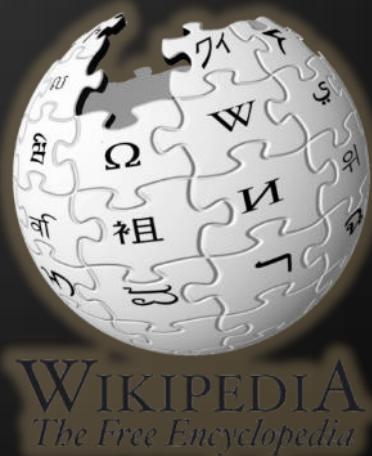
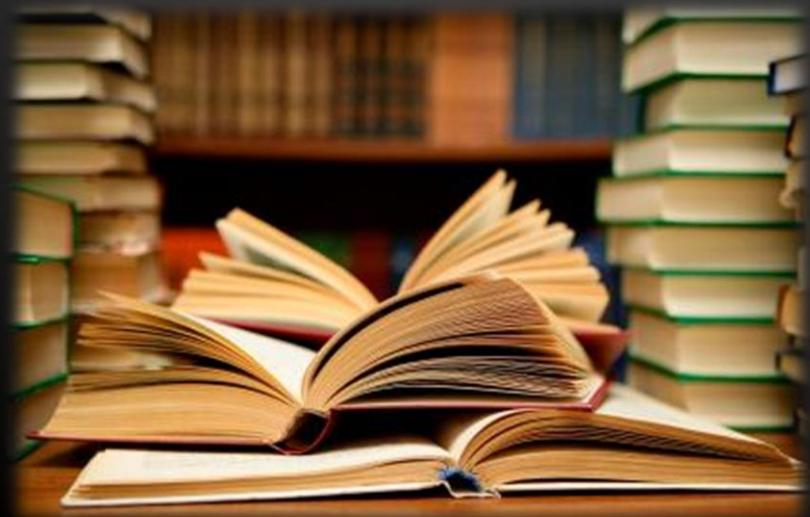
- ◆ Evaluation components
 - ◆ Practical exam – 65%
 - ◆ Homework – 15%
 - ◆ Homework evaluation – 10%
 - ◆ 3 peer reviews per homework
 - ◆ Attendance in class – 10%
- ◆ Bonuses
 - ◆ Forums activity – bonus up to 5%





Resources

What We Need in Addition to this Course Content?



JavaScript Resources

- ◆ 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-oop>

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

<http://academy.telerik.com/student-courses/web-design-and-ui/javascript-oop>

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



telerikacademy.com/Courses/Courses/Details/179

Required Software

- ◆ Software needed for this course:

- ◆ Microsoft Visual Studio 2013 or Visual Studio Express 2013 (free version of VS 2013)
- ◆ Sublime Text 2/3
- ◆ WebStorm
- ◆ Komodo IDE
- ◆ Notepad ++



JavaScript OOP Course Introduction



Questions?



Questions, I have them.

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- ◆ html5course.telerik.com



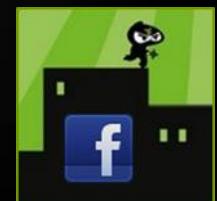
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