



JavaScript UI and DOM: Course Introduction

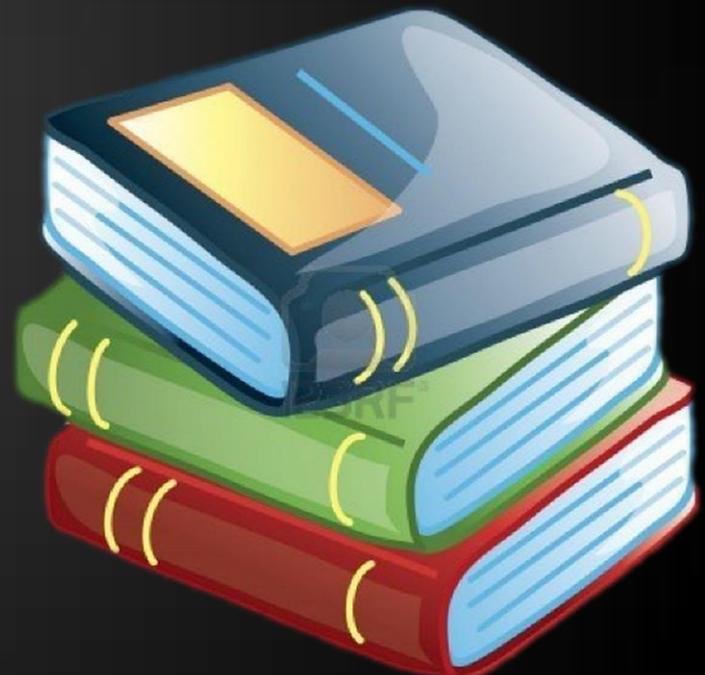
Course Program, Evaluation, Exams, Resources

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



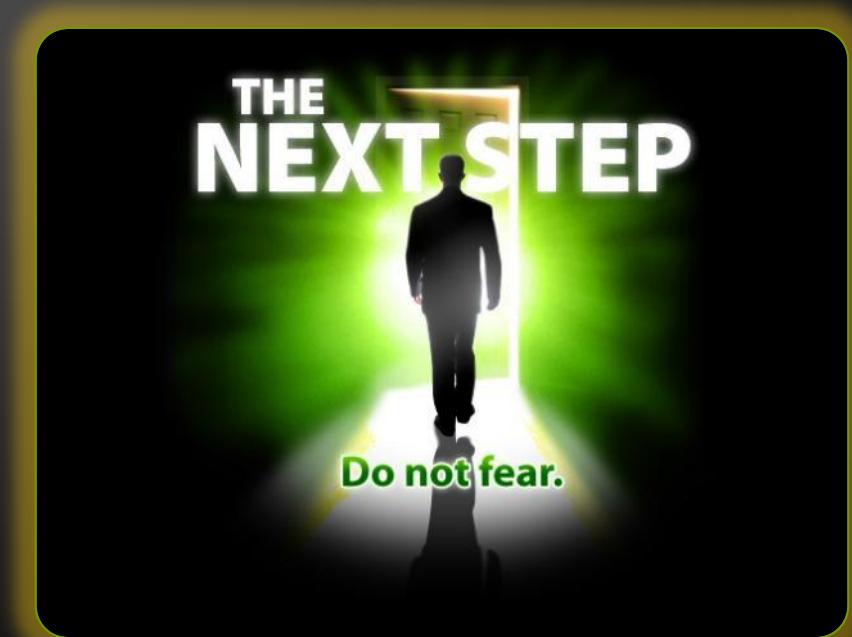
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JavaScript UI and DOM

About to make the next step



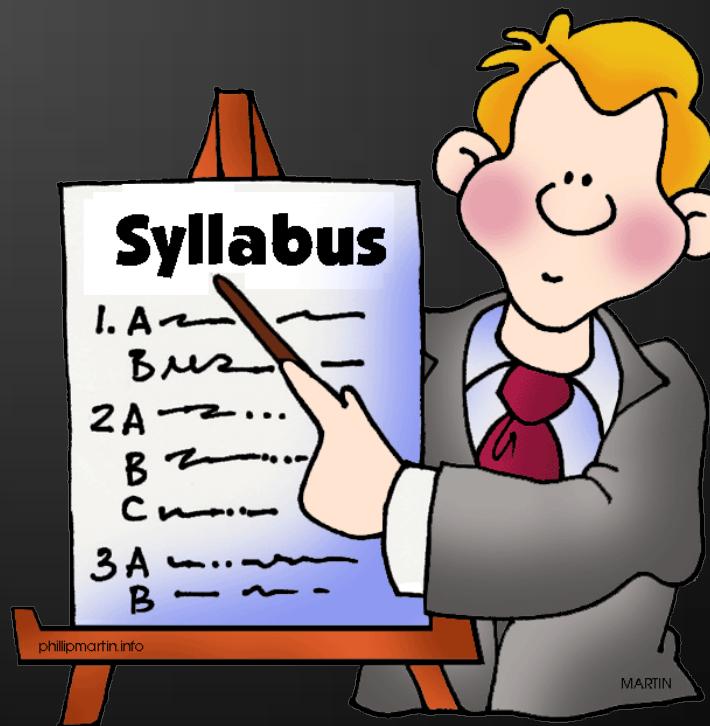
What's Coming Next?

- ◆ JavaScript UI and DOM
 - ◆ Continuation of JavaScript Fundamentals
 - ◆ First steps in developing UI for web applications
- ◆ Pretty much the same
 - ◆ Lectures 2 times a week
 - ◆ Practical exam after a month
- ◆ The course exam
 - ◆ 3 tasks for 4-6 hours
 - ◆ Developing web components



JavaScript UI and DOM: Course Program

Material to cover during the course

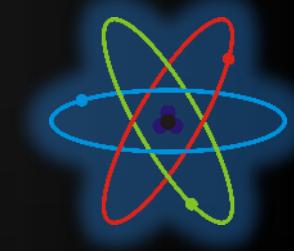


JavaScript UI and DOM: Course Program

- ◆ "JavaScript UI & DOM" course introduction
 - ◆ Course Program, Exams, Evaluation
- ◆ Document Object Model
 - ◆ What is DOM and how to used it?
 - ◆ DOM APIs in JavaScript
 - ◆ Selecting elements from the HTML with JS

JavaScript UI and DOM: Course Program (2)

- ◆ HTML5 Canvas
 - ◆ Drawing in the browser
- ◆ KineticJS framework for the HTML5 Canvas
 - ◆ Drawing shapes, animations, paths
- ◆ SVG
 - ◆ Creating vector graphics inside the browser
- ◆ Raphael JS framework for SVG
 - ◆ Defining shapes, paths, creating animations
- ◆ Animations with Canvas and SVG
 - ◆ Animations fundamentals



JavaScript UI and DOM: Course Program (3)

◆ DOM operations

- ◆ Dynamically create DOM elements
- ◆ Append elements to the HTML
- ◆ Alter element properties
- ◆ DOM optimizations

◆ DOM event model

- ◆ Events
- ◆ Attaching/detaching events
- ◆ Custom events

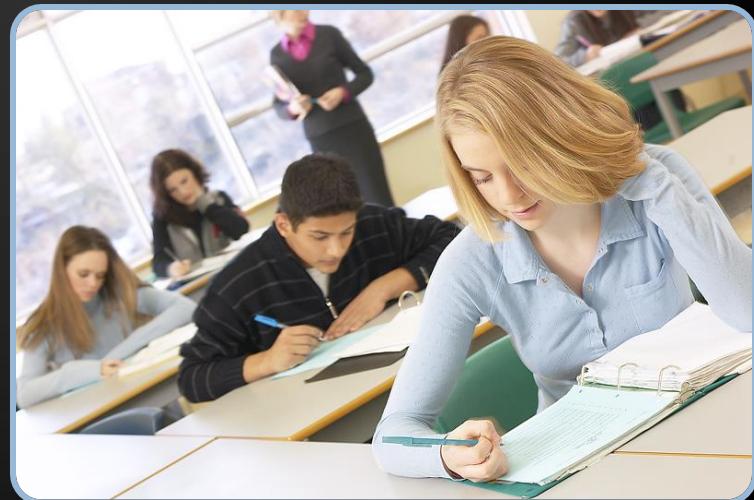


JavaScript UI and DOM: Course Program (4)

- ◆ **jQuery overview**
 - ◆ Using jQuery for easier DOM manipulation
 - ◆ jQuery AJAX 101
- ◆ **Handlebars HTML templates**
 - ◆ Dynamic HTML
 - ◆ Using client-side templates

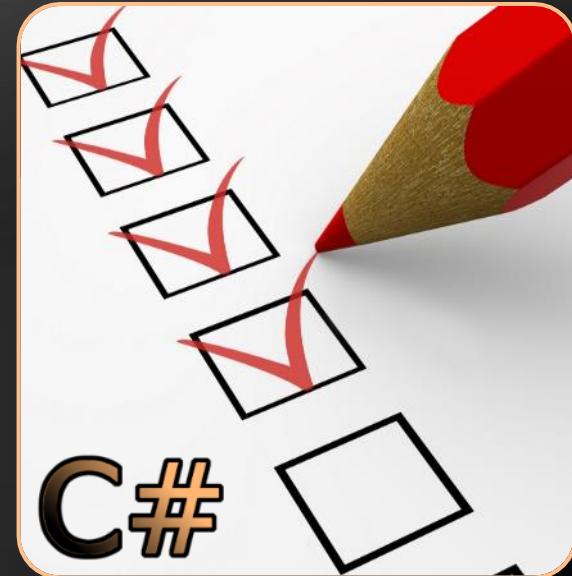
JavaScript UI and DOM: Course Program (5)

- ◆ Exam preparation
 - ◆ Developing web components with JavaScript
- ◆ Practical Exam



Evaluation

Thank God There Are Bonuses!



JavaScript – Evaluation

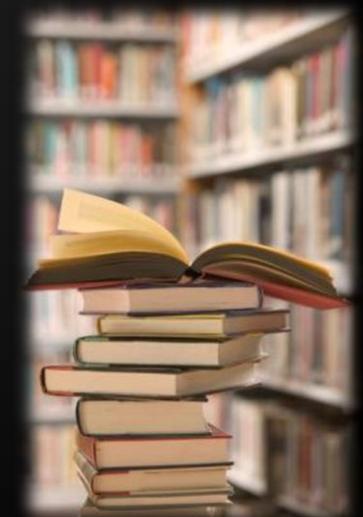
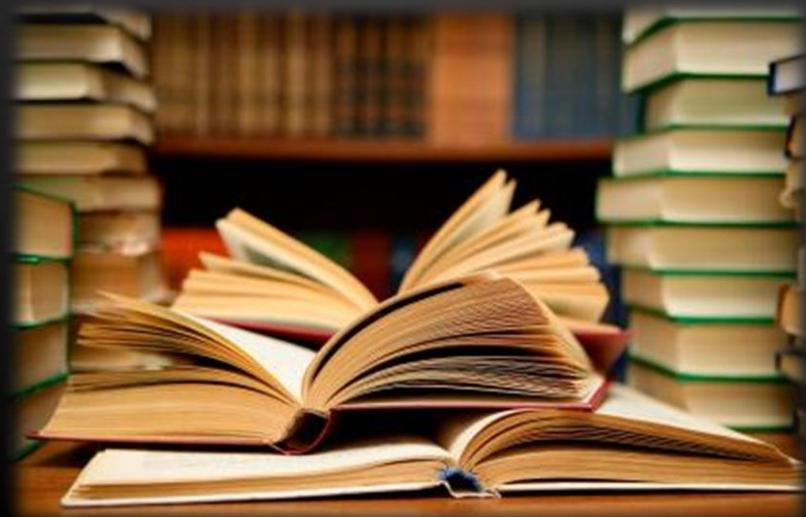
- ◆ Evaluation components
 - ◆ Practical exam – 45%
 - ◆ Exam evaluation – 10%
 - ◆ 7-8 exam peer reviews
 - ◆ Homework – 10%
 - ◆ Homework evaluation – 5%
 - ◆ 3 peer reviews per homework
 - ◆ Teamwork – 20%
 - ◆ Attendance in class – 10%
- ◆ Bonuses
 - ◆ Forums activity – bonus up to 5%





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-2>

- ◆ 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/web-design-and-ui/javascript-ui-dom/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

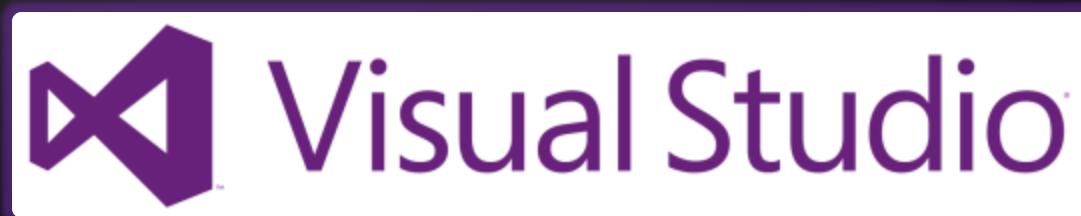
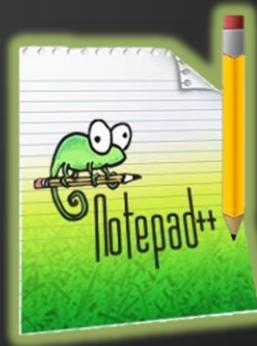


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Required Software

- ◆ 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 ++



Champions from the Exam

Telerik Academy Ninja Champions



Champions: JS Fundamentals

- ◆ # 1 – Dimitar Kostov (d.kostov88)
- ◆ # 2 – Elena Pitsin (epitsin)
- ◆ # 3 – Jivko Rusev (neutrino)
- ◆ # 4 – Dzhenko Penev (dzhenko)
- ◆ # 5 – Julian Genchev (JulianG)



JavaScript UI & Dom Course Introduction



Questions?



Free Trainings @ Telerik Academy

- ◆ Web Design and UI Technologies
@ Telerik Academy

- ◆ html5course.telerik.com



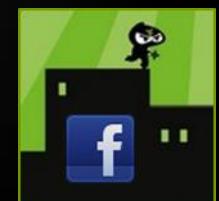
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