Telerik Academy

JavaScript UI and DOM: Course Introduction

JS Course Program, Evaluation, Exams, Resources

Telerik Software Academy

Learning & Development Team

http://academy.telerik.com

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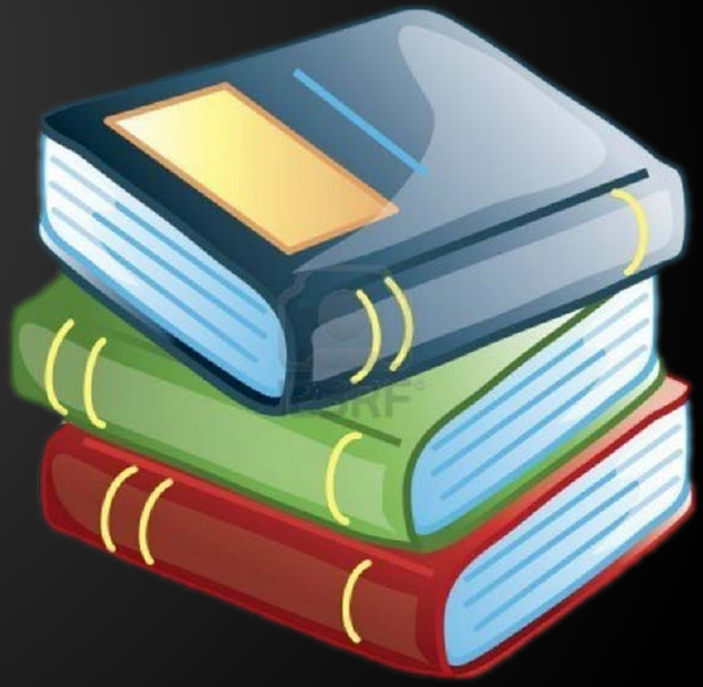

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JavaScript UI and DOM

About to make the next step

What's Coming Next?

- JavaScript UI and DOM
  - Continuation of JavaScript Fundamentals
  - Developing UI for web applications
- Pretty much the same
  - Lectures 2 times a week
  - Practical exam after a month
- The course exam
  - Developing web components

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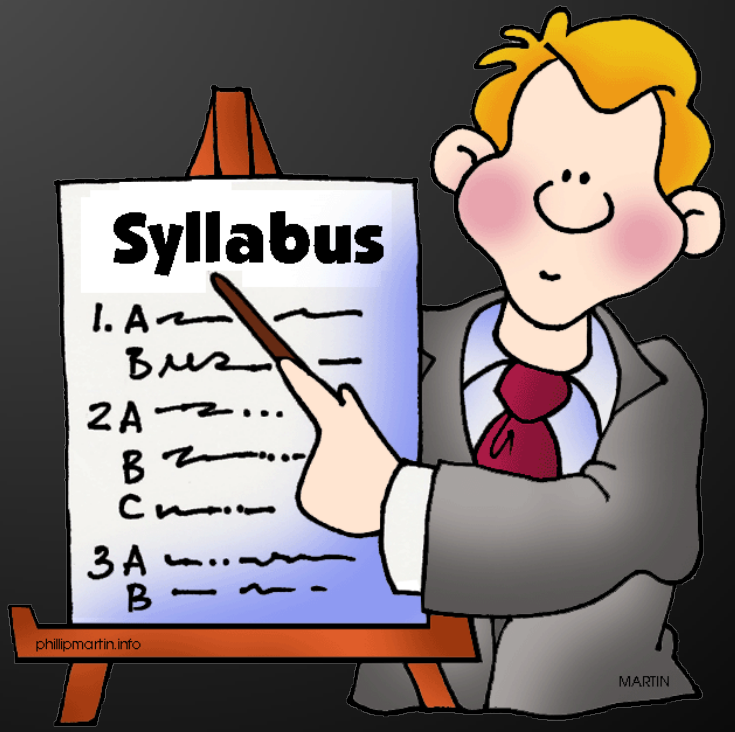
JavaScript UI and DOM: Course Program

Material to cover during the course



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JavaScript UI and DOM: Course Program

- JavaScript UI and DOM course introduction
  - Course Program, Exams, Evaluation
- HTML5 Canvas
  - Drawing raster graphics in the browser

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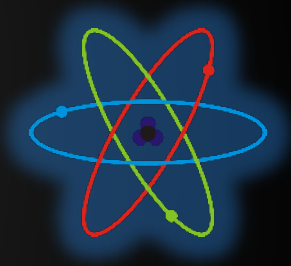
JavaScript UI and DOM: Course Program (2)

- HTML5 Canvas frameworks
  - Frameworks to easify drawing with Canvas
  - Paper.js, KineticJS, etc…
- SVG and SVG frameworks
  - Creating vector graphics inside the browser
  - Frameworks to easify the SVG development
- Animations with Canvas and SVG
  - Creating time-based animations



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JavaScript UI and DOM: Course Program (3)

- Document Object Model
  - What is DOM and how to used it?
  - DOM APIs in JavaScript
  - Selecting elements from the HTML with JS
- DOM operations
  - Dynamically create DOM elements
  - Append elements to the HTML
  - Alter element properties

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JavaScript UI and DOM: Course Program (4)

- DOM event model
  - Events
  - Attaching/detaching events
  - Custom events
- jQuery overview
  - Using jQuery for easier DOM manipulation
  - jQuery AJAX 101
- HTML templates
  - Using client-side templating

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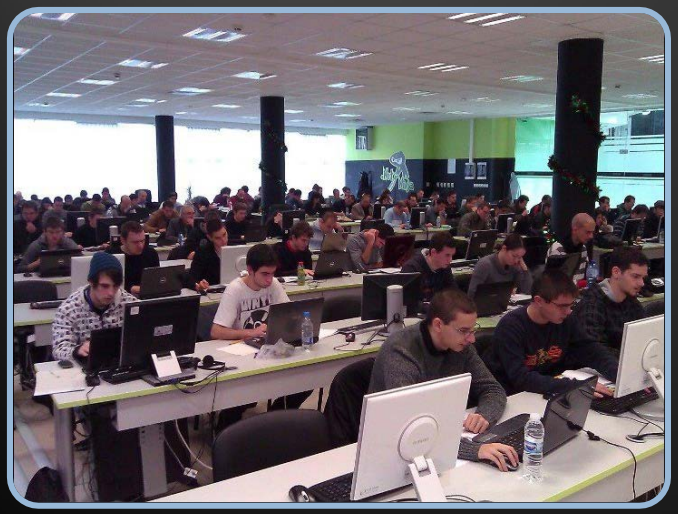
JavaScript UI and DOM: Course Program (5)

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



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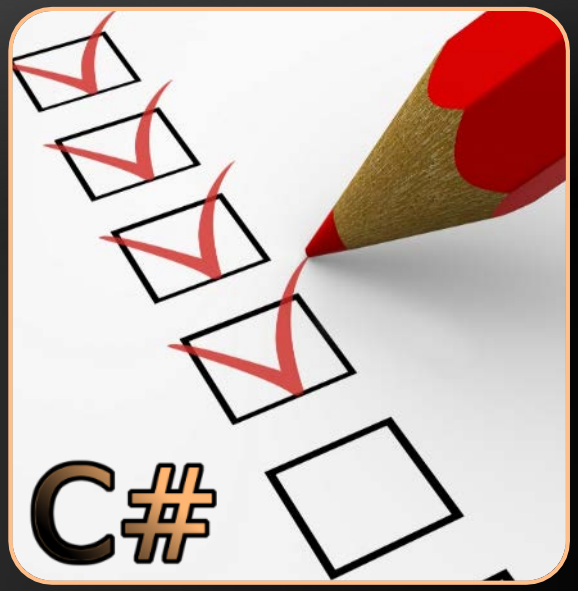
Evaluation

Thank God There Are Bonuses!



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JavaScript – Evaluation

- Evaluation components
  - Practical exam – 55%
  - Homework – 10%
  - Homework evaluation –5%
    - 3 peer reviews per homework
  - Teamwork – 20%
  - Attendance in class – 10%
- Bonuses
  - Forums activity – bonus up to 5%

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Resources

What We Need in Addition to this Course Content?

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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

Books

JavaScript: The Good Parts
JavaScript
The Definitive Guide

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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

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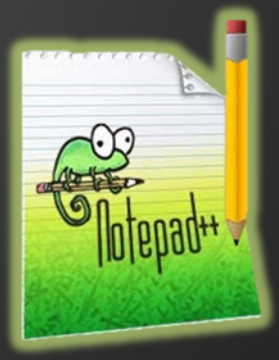
Telerik Integrated Learning System (TILS)

- 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/178

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
  - Komodo IDE
  - Notepad ++



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Questions?

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