



JavaScript UI and DOM: Course Introduction

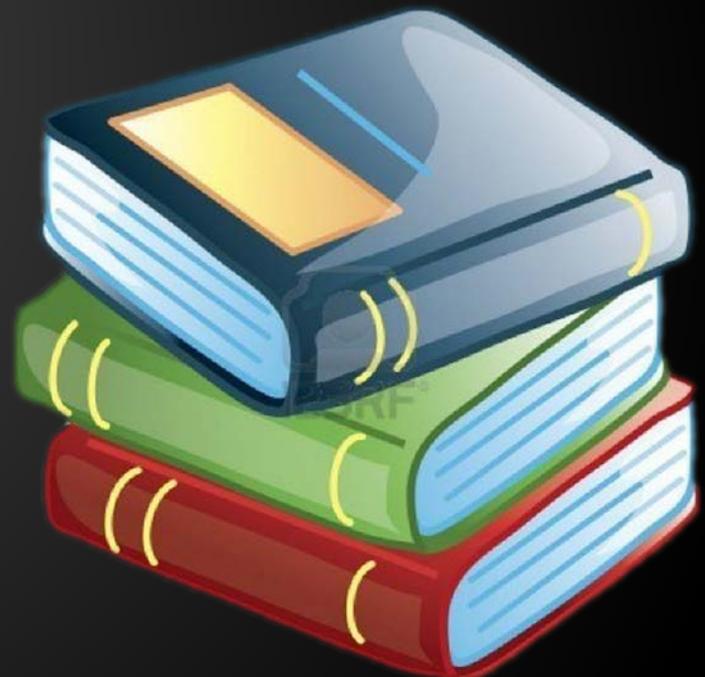
Course Program, Evaluation, Exams, Resources

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



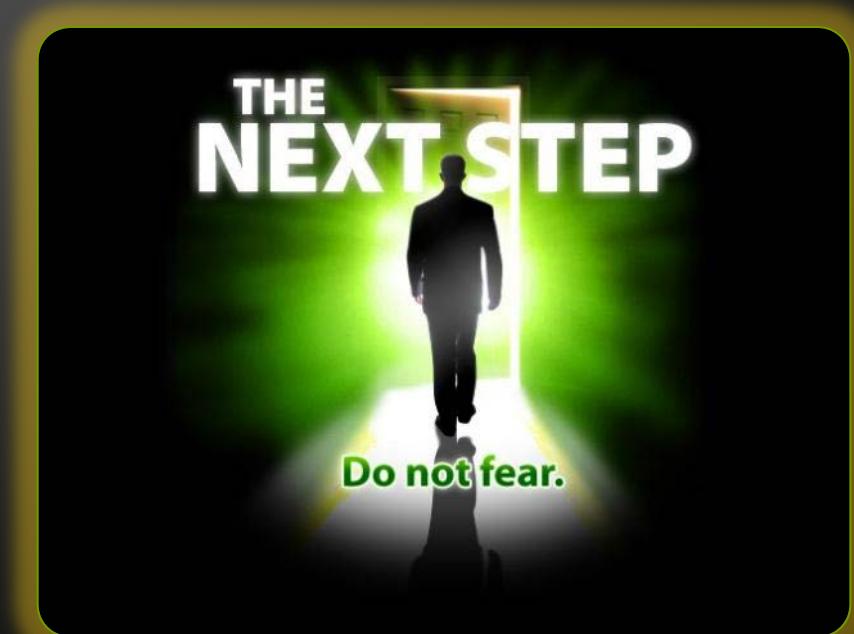
Table of Contents

- ◆ What is next in the Academy?
- ◆ The JavaScript UI and DOM Course Program
- ◆ Exams and Evaluation
 - ◆ Standard Criteria
 - ◆ Champions
 - ◆ Bonuses
- ◆ Resources for the Course



JavaScript UI and DOM

About to make the next step



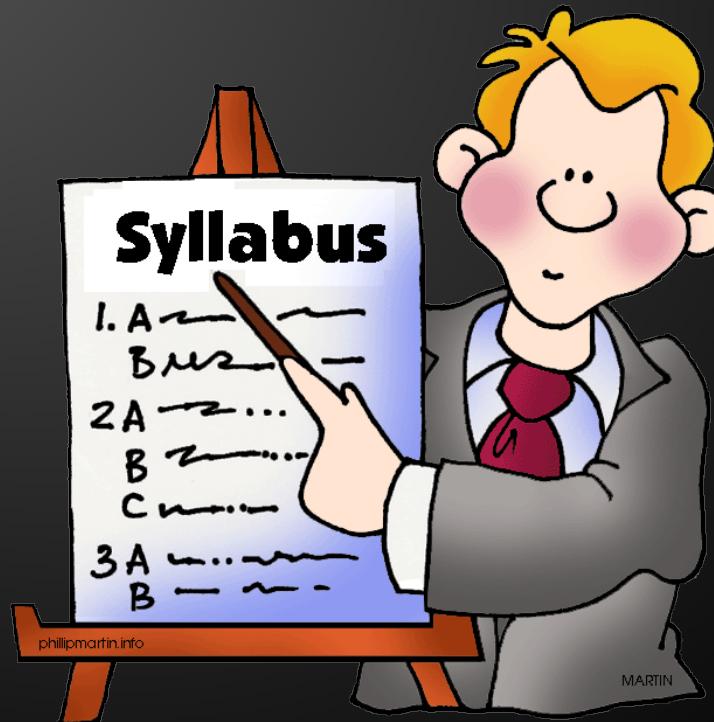
What's Coming Next?

- ◆ 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

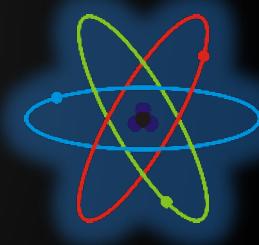


JavaScript UI and DOM: Course Program

- ◆ "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

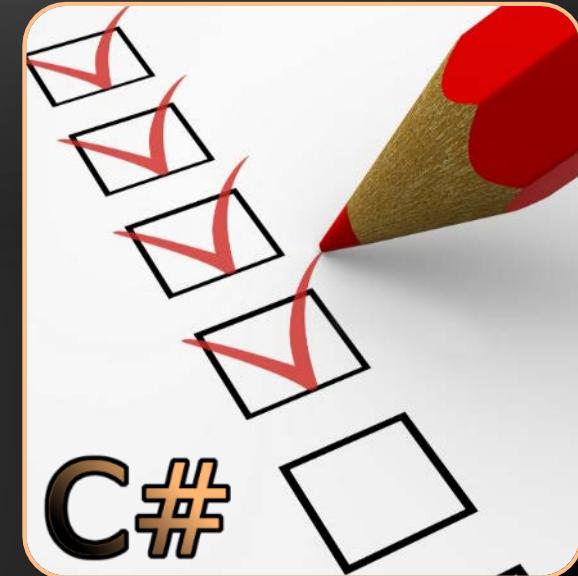
JavaScript UI and DOM: Course Program (5)

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



Evaluation

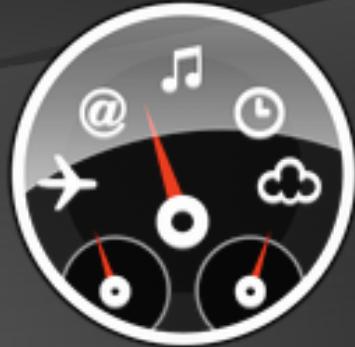
Thank God There Are Bonuses!



JavaScript – Evaluation

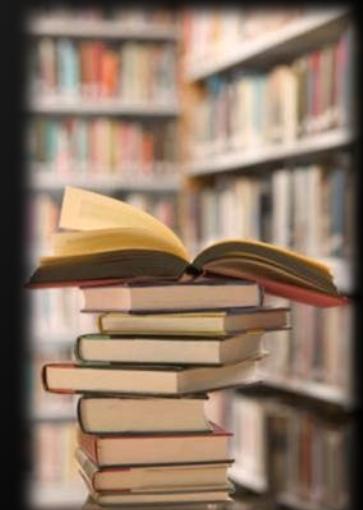
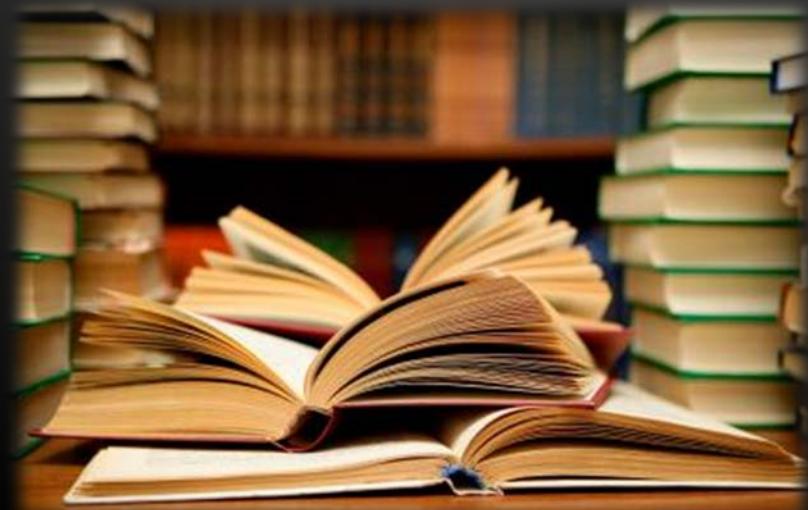
- ◆ Evaluation components
 - ◆ Practical exam – 45%
 - ◆ Exam evaluation – 10%
 - ◆ 7-8 exam peer reviews
 - ◆ Homework – 10%
 - ◆ Homework evaluation – 5%
 - ◆ 3 peer reviews per homework
 - ◆ Teamwork – 20%
 - ◆ Attendance in class – 10%
- ◆ Bonuses
 - ◆ Forums activity – bonus up to 5%





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

The screenshot shows a course details page from the Telerik Academy website. The course title is "Курс "JavaScript UI и DOM"" (Course "JavaScript UI and DOM"). Key information displayed includes:

- Описание:** Курс "JavaScript UI & DOM" започва на 28 май 2014 г. и ще продължи до 19 юни 2014 г. в "Академията на Telerik". Принадлежи
може да се обучават единични курсови, които са част от програма "Софтуерна академия на Telerik", звонки останали МОГАД СЕ
запишат за онлайн форма на обучение. Подробна информация за курса може да намерите на нашия информационен уебсайт.
- Начална дата:** 28/05/2014
- Крайна дата:** 19/06/2014
- Лекции за седмица:** 2
- Краен срок за записване:** 00:00 часа на 03/06/2014
- Лекции не може да бъде записан пристъпенно**
- Запишете курса онлайн**
- Име на лекция** | **Материали**
- Представление на курса "JavaScript UI & DOM" | Лекциите все още няма материали
- HTML5 Canvas | Презентация - PPTX
- HTML5 Canvas Библиотека | Демо
- HTML5 Canvas Библиотека | Лекциите все още няма материали

telerikacademy.com/Courses/Courses/Details/178

Required Software

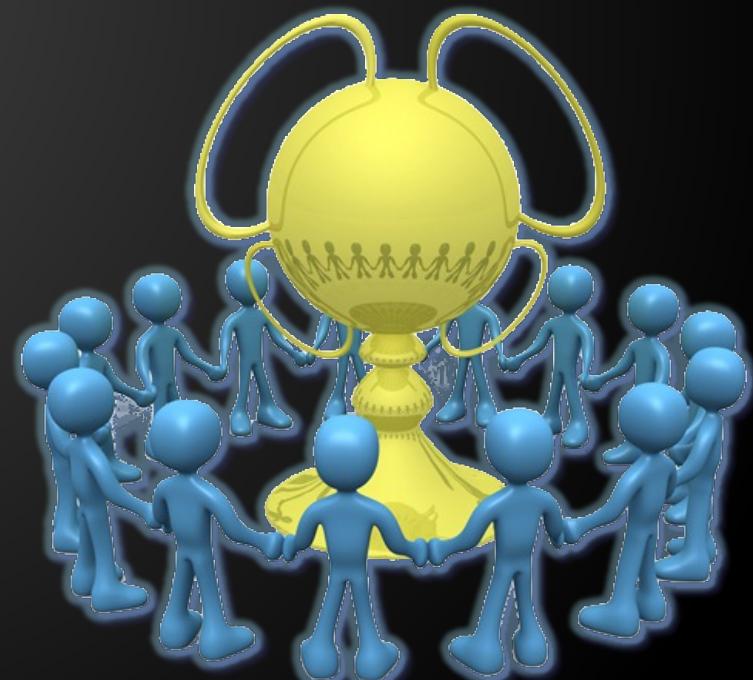
- ◆ Software needed for this course:

- ◆ Microsoft Visual Studio 2013 or Visual Studio Express 2013 (free version of VS 2013)
- ◆ Sublime Text 2/3
- ◆ 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



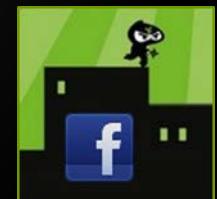
- ◆ Telerik Software Academy

- ◆ academy.telerik.com



- ◆ Telerik Academy @ Facebook

- ◆ facebook.com/TelerikAcademy



- ◆ Telerik Software Academy Forums

- ◆ forums.academy.telerik.com