

Exam Preparation

Telerik Software Academy

Learning & Development

<http://academy.telerik.com>

Task 1 – Web Control with Vanilla JavaScript

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- ◆ Create a calendar using pure (vanilla) JavaScript
 - ◆ Given the HTML file (index.html) create a JavaScript function called createCalendar(selector, events)
 - ◆ selector is a string object that contains a DOM selector ('.class', '#id', '#parent .item')
 - ◆ Events is an array of objects, following the structure:
 - ◆ Events should be added into the 'day box' for the day in the event.day property

```
var events = [{  
  title: 'JavaScript UI & DOM exam', //a regular string  
  date: 17, //a number between 1 and 30 inclusive  
  time: '10:00', //a string in the format "HH:MM"  
  duration: 360 //a positive number less than 1440  
}, {  
  // (24 hours * 60 minutes)  
  ...  
}];
```

Task 1 – Web Control with Vanilla JavaScript (2)

- ◆ (cont) Create a calendar using pure (vanilla) JavaScript
 - ◆ The createCalendar() function should add the calendar into the control given as selector
 - ◆ As a result you should produce the following HTML

The Calendar

Sun 1 June 2014	Mon 2 June 2014	Tue 3 June 2014	Wed 4 June 2014	Thu 5 June 2014	Fri 6 June 2014	Sat 7 June 2014
Sun 8 June 2014	Mon 9 June 2014 10:00 - 9 Exam	Tue 10 June 2014	Wed 11 June 2014	Thu 12 June 2014	Fri 13 June 2014	Sat 14 June 2014
Sun 15 June 2014	Mon 16 June 2014	Tue 17 June 2014	Wed 18 June 2014	Thu 19 June 2014	Fri 20 June 2014	Sat 21 June 2014
Sun 22 June 2014 10:00 - 22 Exam	Mon 23 June 2014	Tue 24 June 2014	Wed 25 June 2014	Thu 26 June 2014	Fri 27 June 2014	Sat 28 June 2014
Sun 29 June 2014	Mon 30 June 2014					

- ◆ Constraints:
 - ◆ No CSS allowed, all the styles should be applied with JavaScript
 - ◆ The calendar is always for June 2014
 - ◆ There will be no more than a single event for a date

Task 1 – Web Control with Vanilla JavaScript (3)

- ♦ (cont) Create a calendar using pure (vanilla) JavaScript
 - ♦ The calendar should support the following functionality:
 - ♦ Hover on a day changes the background of the title
 - ♦ Click on a day changes the color of the whole day element
 - ♦ Only one element can be selected at once
 - ♦ Example:

Normal

2014	Wed 11 June 2014	Thu
2014	Wed 18 June 2014	Thu

Hovered

014	Wed 11 June 2014	Thu
014	Wed 18 June 2014	Thu

Selected

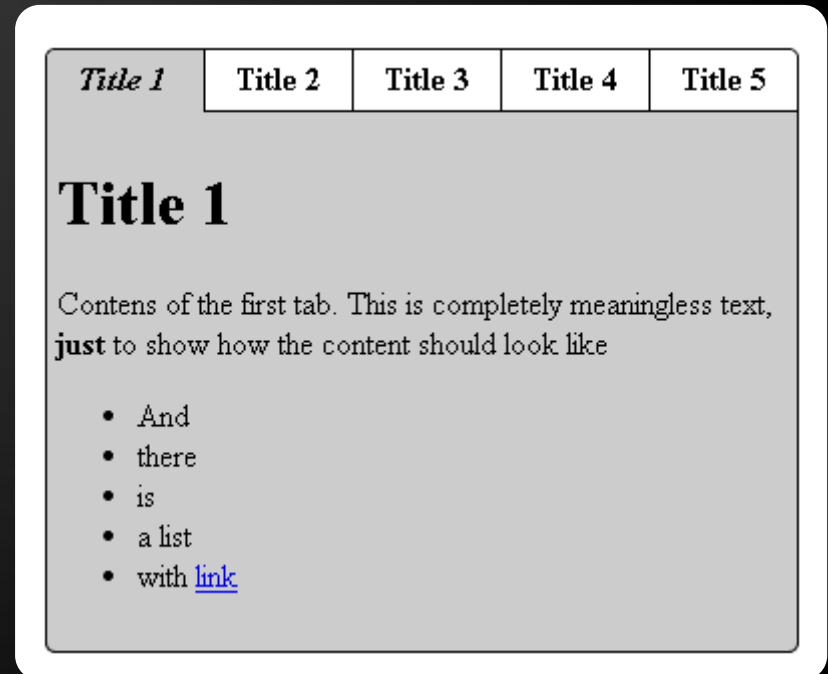
2014	Wed 11 June 2014	Thu
2014	Wed 18 June 2014	Thu

Task 2 – jQuery plugin

Task 2 – jQuery Plugin

- ◆ Create a tabs control using jQuery and wrap it into a plugin
 - ◆ You are given HTML code in the index.html file
 - ◆ And a CSS file, that you must use
 - ◆ Using your plugin, transform the HTML into a tabs control like the following:
 - ◆ Using:

```
$('#tabs-container').tabs();
```



Task 3 – Handlebars Templates

Task 3 – Handlebars Templates

- ◆ Given the HTML (index.html), CSS (styles.css) and JavaScript (scripts.js) build a template that produces the HTML in result.html
 - ◆ You should only fill the templates in the elements with ids 'books-list-template' and 'book-details-template'

JavaScript: The good parts
by Douglas Crockford

Secrets of the JavaScript Ninja
by John Resig

Core HTML5 Canvas: Graphics, Animation, and Game Development
by David Geary

JavaScript Patterns
by Stoyan Stefanov

JavaScript Patterns

(ISBN: 0596806752)

Published on **September 2010** by **Stoyan Stefanov**

What's the best approach for developing an application with JavaScript? This book helps you answer that question with numerous JavaScript coding patterns and best practices. If you're an experienced developer looking to solve problems related to objects, functions, inheritance, and other language-specific categories, the abstractions and code templates in this guide are ideal—whether you're using JavaScript to write a client-side, server-side, or desktop application.