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# Exam Preparation

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

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# Task 1 – Web Control with Vanilla JavaScript

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# Task 1 – Web Control with Vanilla JavaScript

- 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)
  …
}];
```

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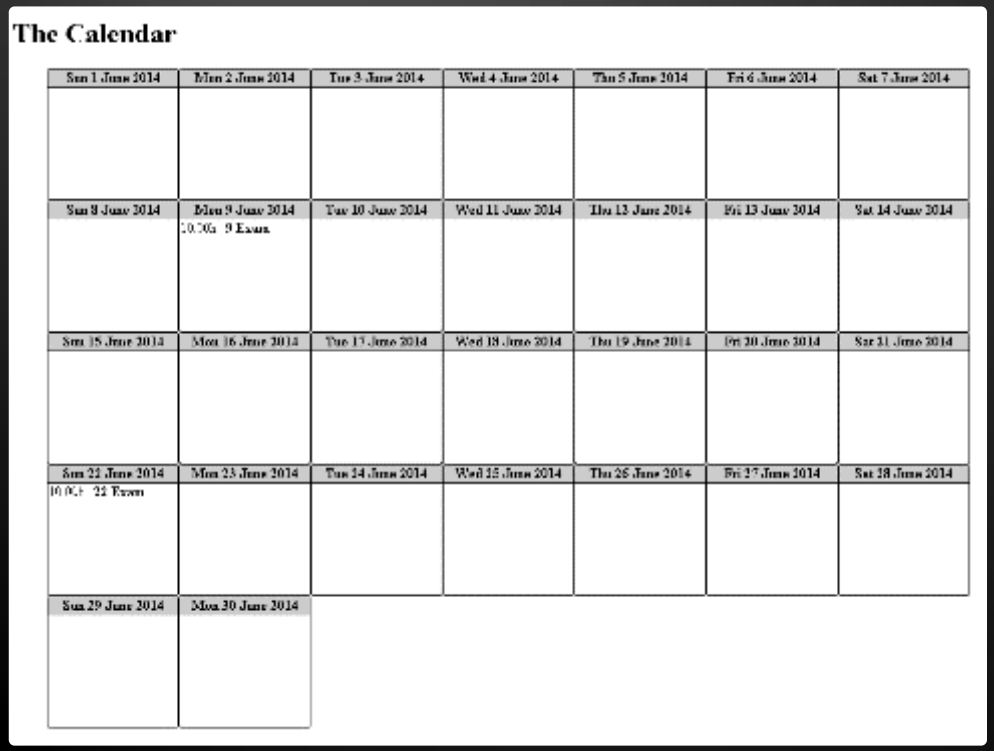
# Task 1 – Web Control with Vanilla JavaScript (2)

- (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




- 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

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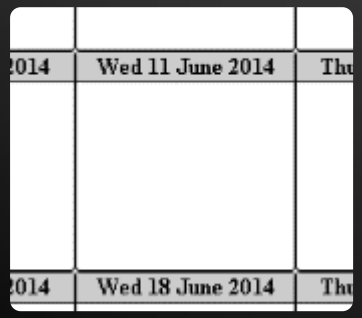
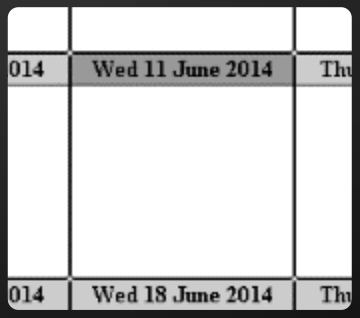
# Task 1 – Web Control with Vanilla JavaScript (3)

- (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:

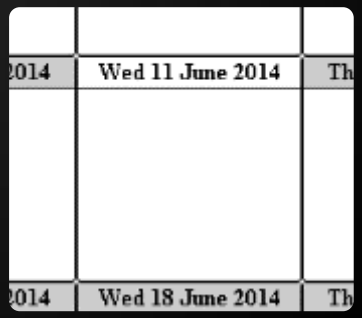
Normal




Hovered




Selected



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# Task 2 – jQuery plugin

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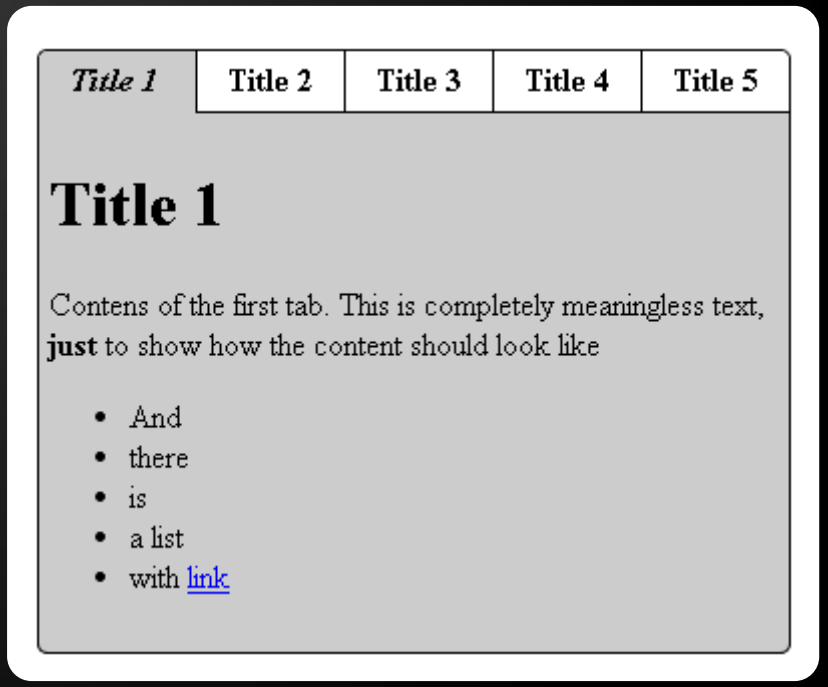
# Task 2 – jQuery Plugin

- Create a tabs control using jQuery and wrap it into a plugin
  - Your 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();
```



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# Task 3 – Handlebars Templates

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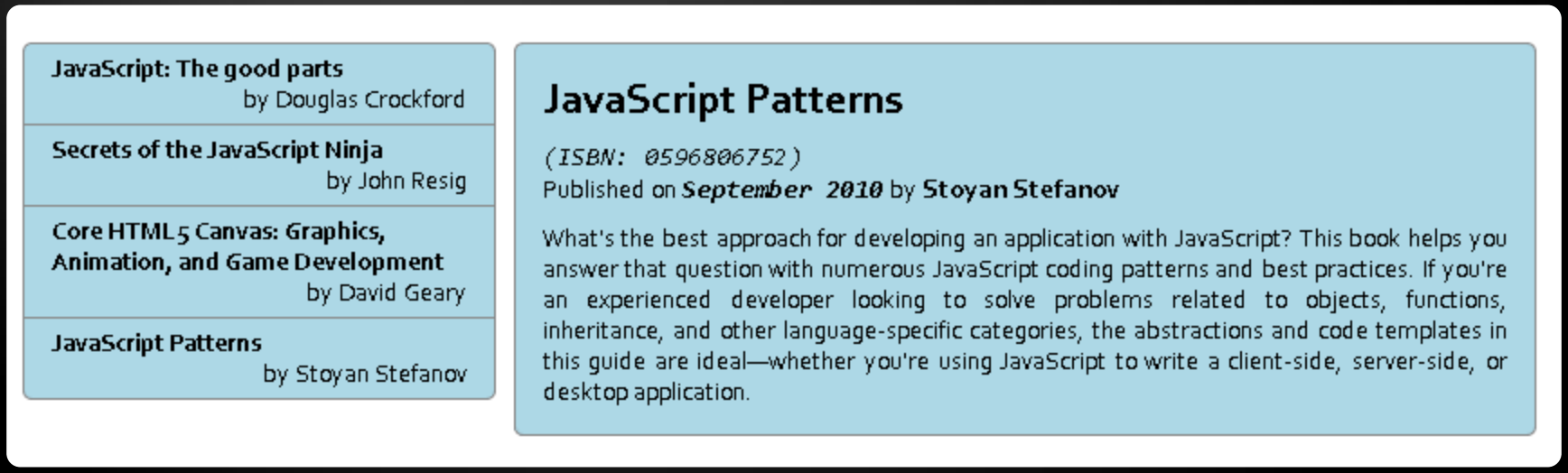
# Task 3 – Handlebars Templates

- 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'