Responsive Web Design

Lab Book

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Document Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Revision No. | Author | **Summary of Changes** |
| 05-June-2015 | 1.0 | Vaishali Kunchur | Initial Draft |
| 01-July-2017 | 2.0 | Rahul Vikash | Change as per BU |
|  |  |  |  |
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Getting Started

## Overview

This lab book is a guided tour for learning jQuery. It comprises solved examples and ‘To Do’ assignments. Follow the steps provided in the solved examples and work out the ‘To Do’ assignments given.

## Setup Checklist

Here is what is expected on your machine in order for the lab to work.

Minimum System Requirements

* Intel Pentium 90 or higher (P166 recommended)
* Microsoft Windows XP or above.
* Memory: 256MB of RAM (512MB or more recommended)
* Internet Explorer 6.0 or higher

Please ensure that the following is done:

* A text editor like Notepad, Editplus
* NodeJS should be installed on your machine

1. Responsive and non-responsive web pages

|  |  |
| --- | --- |
| **Goals** | * Understand difference between Responsive Web page and a non-responsive Web page. |
| **Time** | 10 minutes |

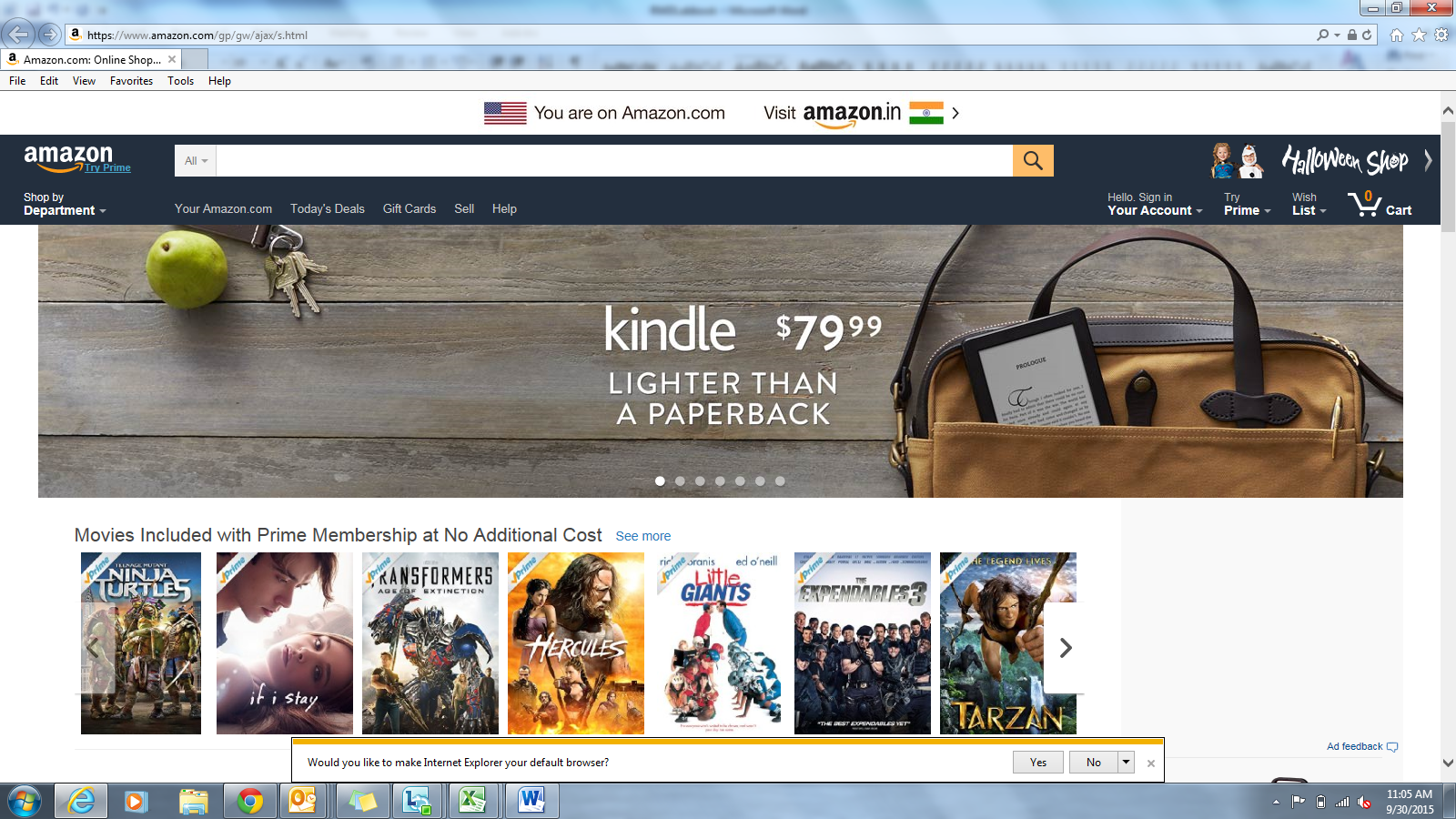
## 1.1: Understand difference between Responsive Web page and a non-responsive Web page

**Step 1:** Open following web sites:

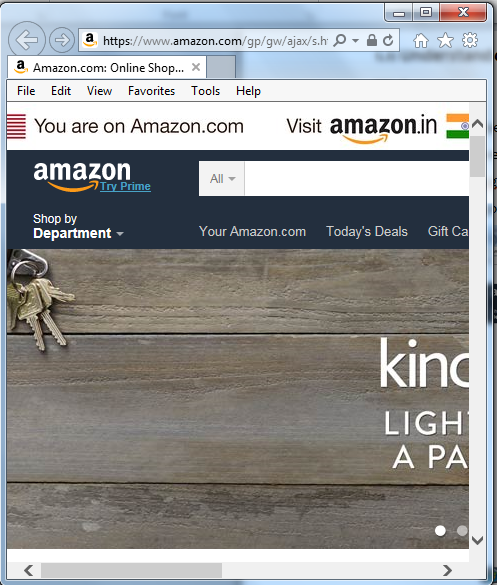
Popular web sites that you generally visit:

eg: <http://www.amazon.com/>

google.com



After resizing, the images/ contents get cut as shown below

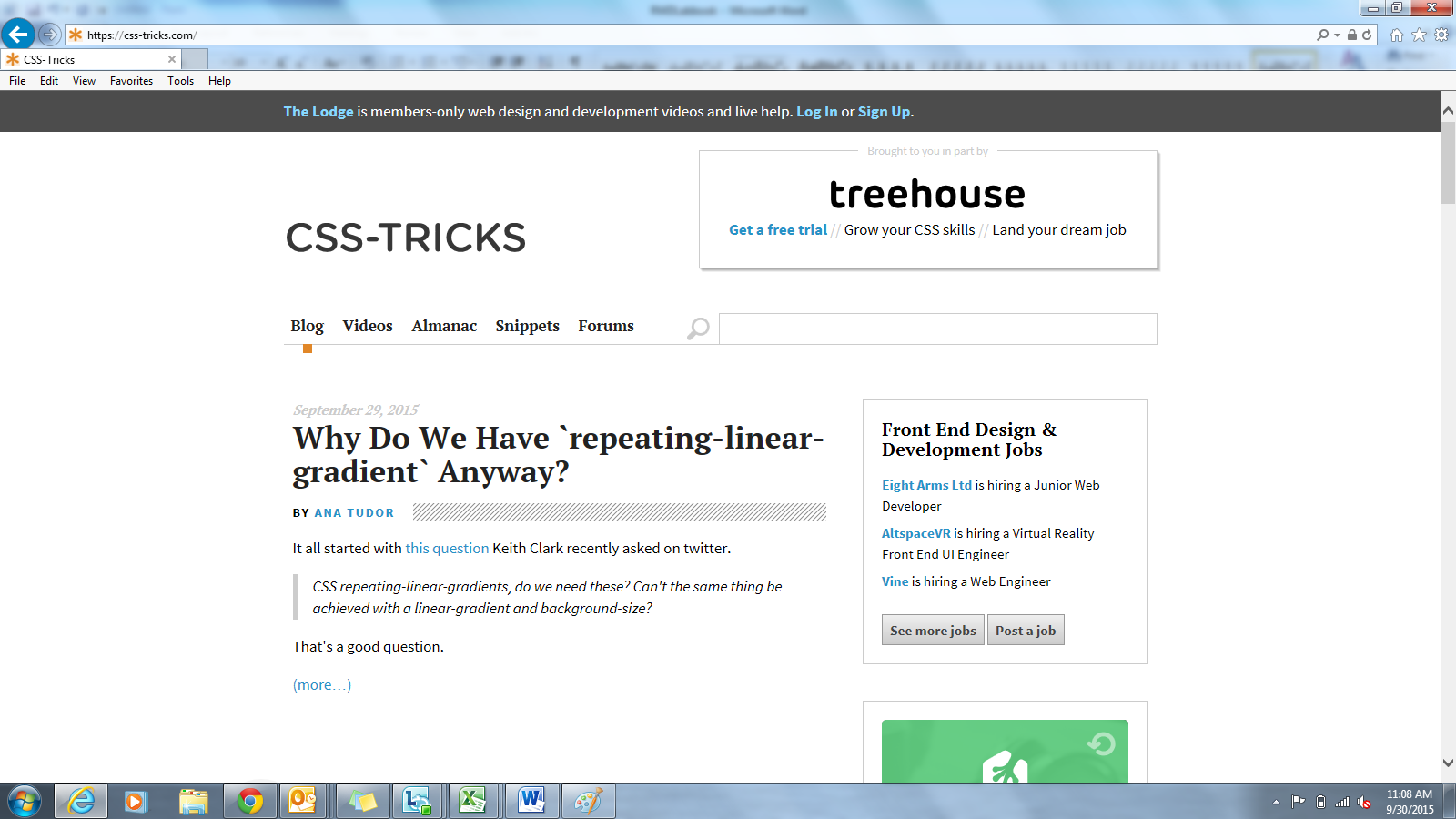


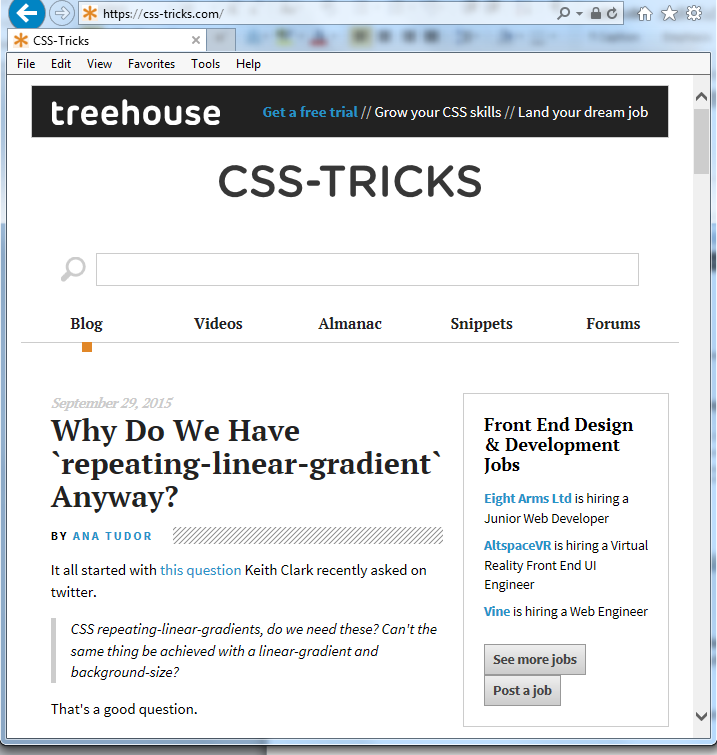
**Step 2: Resize these pages and see if the contents of the web page are getting resized. If not them they are non-responsive web pages**

**Now open following web sites:**

[**http://www.headlondon.com**](http://www.headlondon.com)

[**http://css-tricks.com**](http://css-tricks.com)



****

**Now observe these web pages and see that the contents of the web page are getting resized when you resize these pages. This means that they are responsive web pages.**

1. Flexible Grid Demo

|  |  |
| --- | --- |
| **Goals** | * Flexible Grid Demo |
| **Time** | 20 minutes |

## 2.1: Open Editor

**Step 1:** Create a New Web page and write following code.

**Step 2:** It should have files as shown in figure below:

<HTML>

<HEAD>

<TITLE></TITLE>

<style>

.container **{**

width**:** 52.5390625%**;**/\*538px ÷ 1024px =1\*/

height**:**7.43494423791822%**;**/\*40px ÷ 538px =.0743494423791822\*/

background-color**:**Gray**;**

**}**

section**,**

aside

**{**

margin**:**0.92936802973978%1.85873605947955%0.92936802973978% 1.85873605947955%;/\*10px ÷ 538px = 0.0185873605947955 and 0.0092936802973978\*/

text-align:center;

}

section {

float: left;

background-color:Lime;

width: 63.197026%;/\* 340px ÷ 538px = .63197026 \*/

}

aside {

float**:** right**;**

width**:** 29.3680297%**;** /\* 158px ÷ 538px = .293680297 \*/

background-color**:**Lime**;**

**}**

</style>

</HEAD>

<BODY>

<divclass="container">

<section>**Section**</section>

<aside>**Aside**</aside>

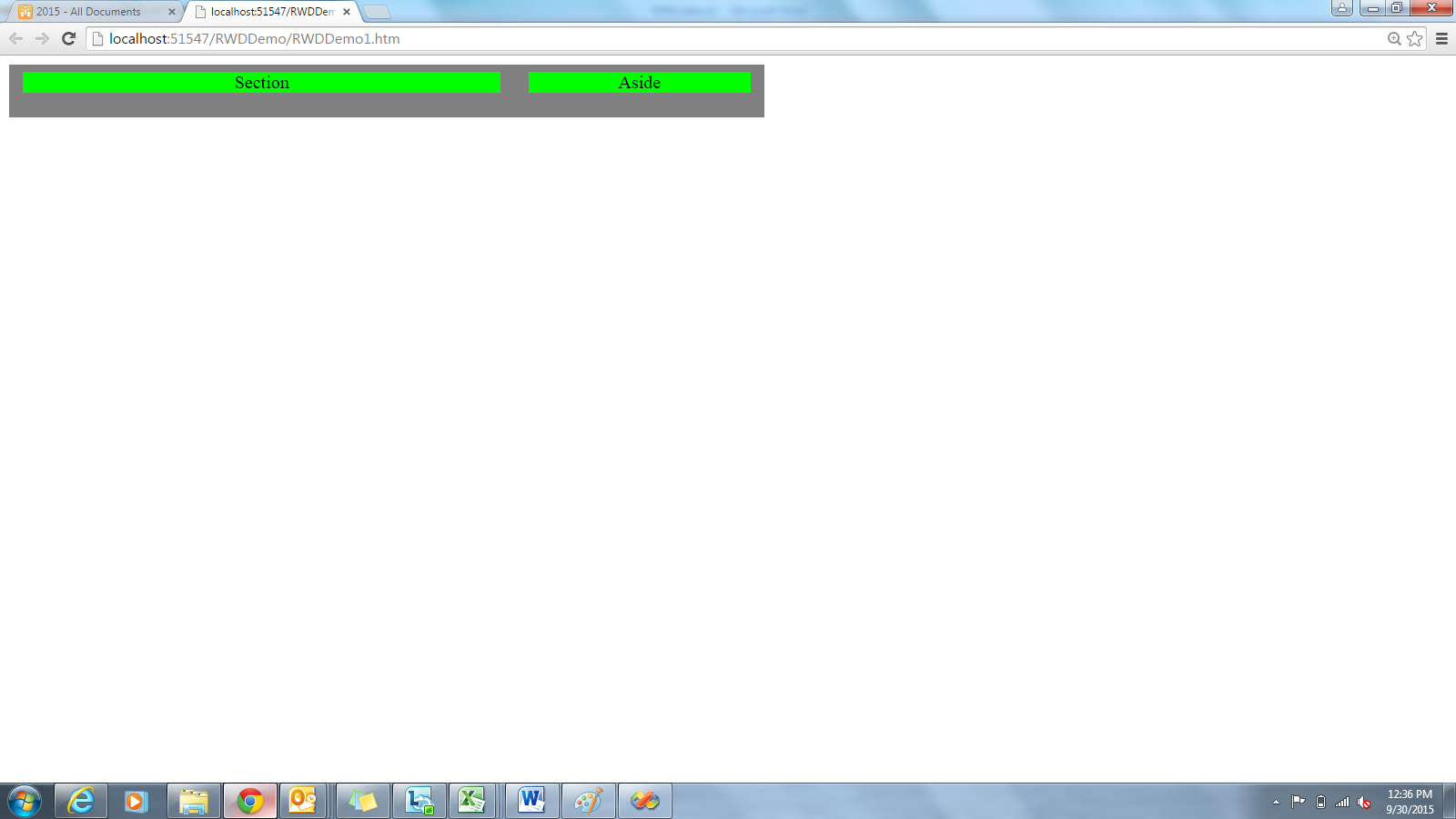
</div>

</BODY>

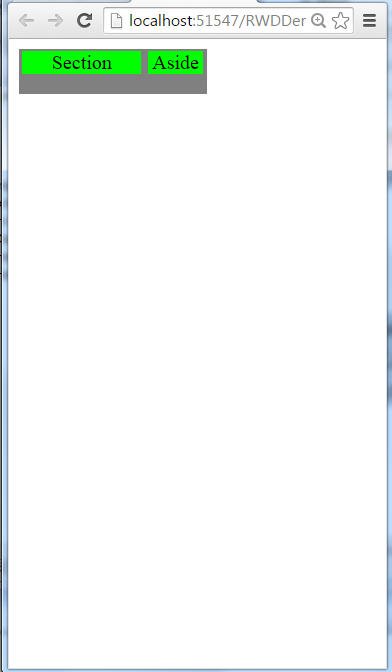
</HTML>

**Step 3:** In sync.js write following code:

**Step 3:** Open this web page in web browser.



**Step 4:** Reduce the size of this web page.



## 2.2: Create a web page:

<HTML>

<HEAD>

<METANAME="GENERATOR"Content="Microsoft Visual Studio 8.0">

<TITLE>**Another RWD example**</TITLE>

<style>

#page

**{**

margin**:**36pxauto**;**

width**:**90%**;**

background-color**:**Gray**;**

**}**

.blog

**{**

margin**:**0auto53px**;**

background-color**:**Gray**;**

width**:**93.75%**;**/\*900px/960px\*/

**}**

.main

**{**

float**:**left**;**

width**:**62.88888889%**;**/\*566px/900px\*/

background-color**:**Lime**;**

text-align**:**center**;**

**}**

.other

**{**

float**:**right**;**

width**:**36.77777778%**;**/\*331px/900px\*/

background-color**:**Lime**;**

text-align**:**center**;**

**}**

</style>

</HEAD>

<BODY>

<divclass="blog">

<divclass="main">

Main content

</div>

<div class="other">

other

</div>

</div>

</BODY>

</HTML>

**Step 3:** Open this web page in web browser.

**Step 4:** Reduce the size of this web page.

1. Responsive Image

|  |  |
| --- | --- |
| **Goals** | * Responsive Image |
| **Time** | 20 minutes |

## 3.1: Responsive Image

**Step 1:** Create a web page with following code

<!DOCTYPEhtml>

<html>

<head>

<metaname="viewport"content="width=device-width, initial-scale=1.0"/>

<style>

.figure **{**

display**:** block**;**

overflow**:** hidden**;**

margin-bottom**:** 0**;**

width**:** 112.272727%**;** /\* 741px / 660px \*/

**}**

img

**{**

max-width**:**50%**;**

**}**

</style>

</head>

<body>

<divclass="figure">

<b><imgsrc="Tulips.jpg"alt=""/></b>

<divclass="main">

<h1>You can never be too sure.</h1>

</div><!-- /end .main -->

</BODY>

</HTML>

## 

1. Media Query

|  |  |
| --- | --- |
| **Goals** | * Understand and use of Media Query |
| **Time** | 20 minutes |

## 4.1: Using Media Query

**Step 1:** Create web page and write following code

<!DOCTYPE HTML>

<HTML>

<HEAD>

<METANAME="GENERATOR"Content="Microsoft Visual Studio 8.0">

<TITLE>**Media QUery Demo**</TITLE>

<script>

var **mq = window.matchMedia(**"(min-width:500px)"**);**

if**(mq.matches){**

**alert(**"device width is at least 500px"**);**

**}**

else**{**

**alert(**"device width is less then 500px"**);**

**}**

</script>

<style>

body

**{**

background-color**:**Gray**;**

**}**

@media **screen and (max-width:400px)**

**{**

h1

**{**

color**:**green**;**

**}**

**}**

@media **screen and (max-width:960px)**

**{**

body

**{**

background-color**:**Red**;**

**}**

**}**

@media **screen and (max-width:768px)**

**{**

body

**{**

background-color**:**Yellow**;**

**}**

**}**

@media **screen and (max-width:320px)**

**{**

body

**{**

background-color**:**Blue**;**

**}**

**}**

</style>

</HEAD>

<BODY>

<h1>**Demo for Media Query**</h1>

<divclass="blog">

<p>**Resize browser window to see media queries working....**</p>

<p>**Resize browser window to see media queries working....**</p>

<p>**Resize browser window to see media queries working....**</p>

<p>**Resize browser window to see media queries working....**</p>

<p>**Resize browser window to see media queries working....**</p>

<p>**Resize browser window to see media queries working....**</p>

<p>**Resize browser window to see media queries working....**</p>

<p>**Resize browser window to see media queries working....**</p>

</div>

</BODY>

</HTML>