

Windows App Development

with (HTML, CSS, JavaScript)



박용준

Microsoft MVP

데브렉(<http://www.devlec.com>)

HTML



CSS



JS



Setting Expectations

참여 대상

- HTML과 CSS 및 JavaScript를 활용하여 Windows App을 만들고자 하시는 모든 분들
- 처음이지만, Windows App에 관심 있는 모든 분들
- 아이들에게 학습을 위한 프로그램을 만들어 공부시키고자 하는 아빠와 엄마

권장 선수 학습

- 웹 기초
 - HTML 사용경험
 - CSS 사용 경험
 - JavaScript 사용 경험

Agenda

Windows App Development with HTML, CSS, JavaScript

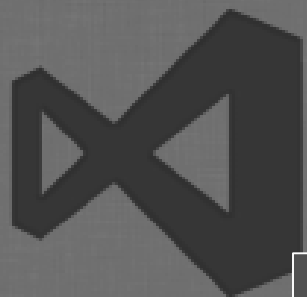
Module 1: 처음으로 만들어보는 Windows App

Module 2: HTML, CSS, JavaScript 기존 경험 활용하기

Module 3: Navigation과 Layout

Module 4: Windows Library for JavaScript

Module 5: TODO



Internet Explorer



스토어



내가 너의 App이다!

데스크톱

날씨



메일



건강



음악

Visual Studio Community 2013

A Full-Featured IDE - FREE

Start coding the app of your dreams for Windows, Android, and iOS.

Download

<http://www.visualstudio.com/products/visual-studio-community-vs>

Everything you need, all in one place



Tools

Designers, editors, debuggers, profilers - all packaged up in a single environment.



Languages

Code in C++, Python, HTML5, JavaScript, and of course C#, VB, and F#.



Web

Extensive web tooling for ASP.NET, Node.js, and JavaScript



Devices

Tools for Apache Cordova and Unity to reach even more platforms.



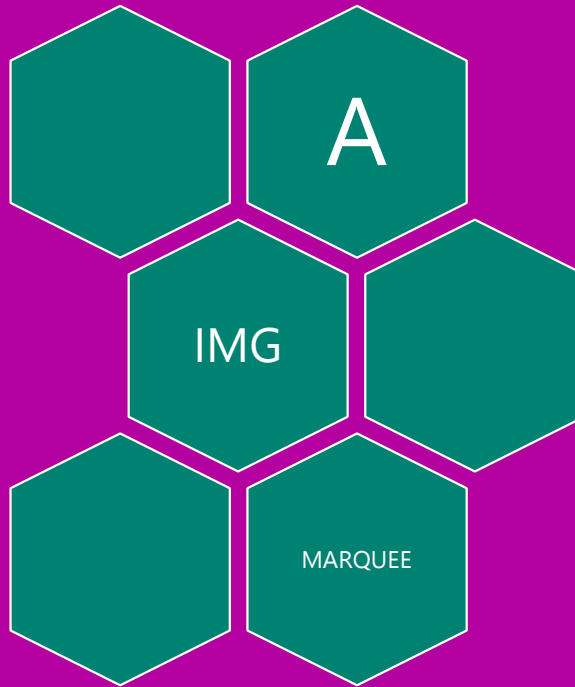
Hello!
World Wide Web? App?

응답하라 1994

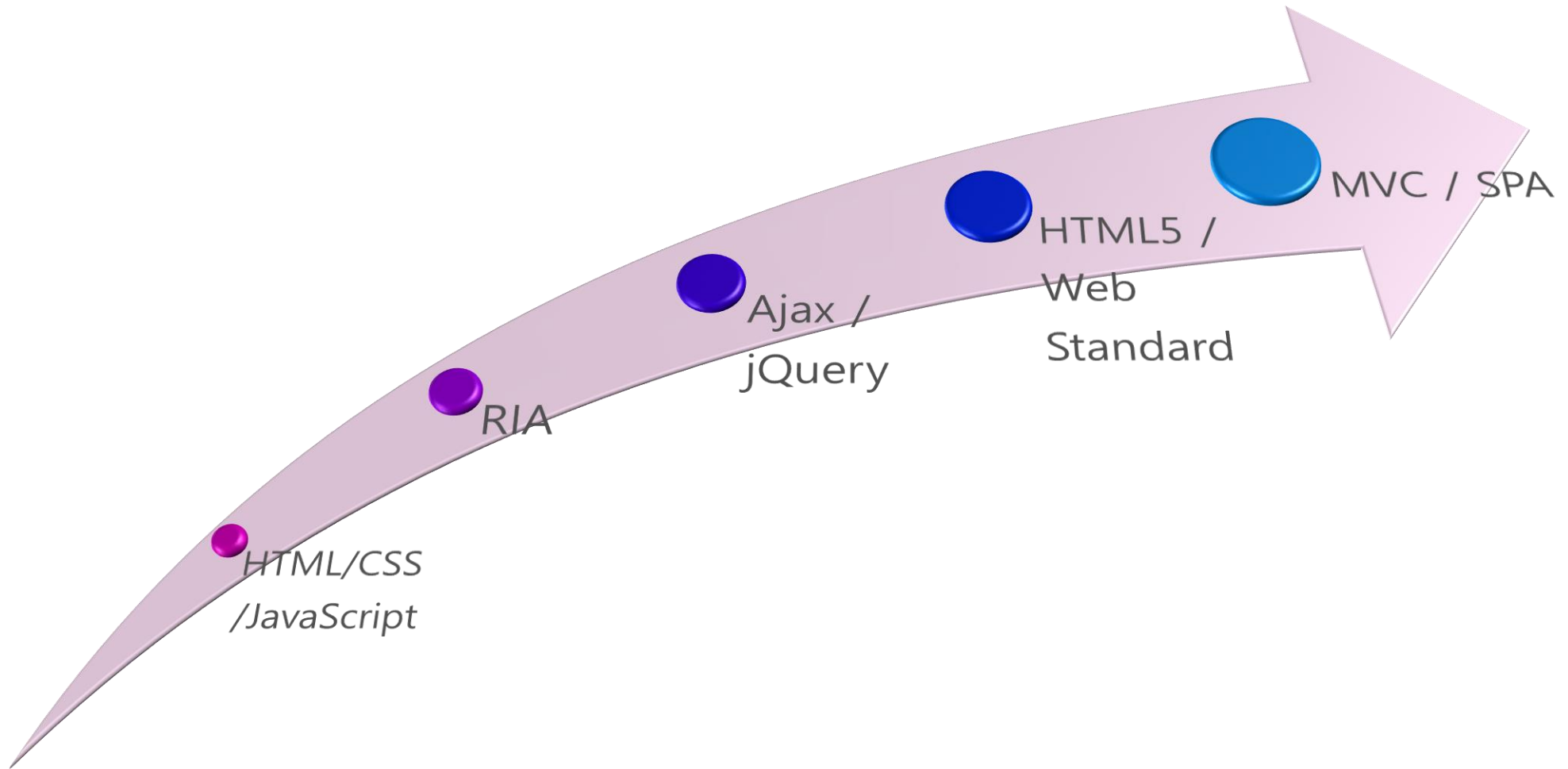


<http://www.microsoft.com/en-us/discover/1994/>

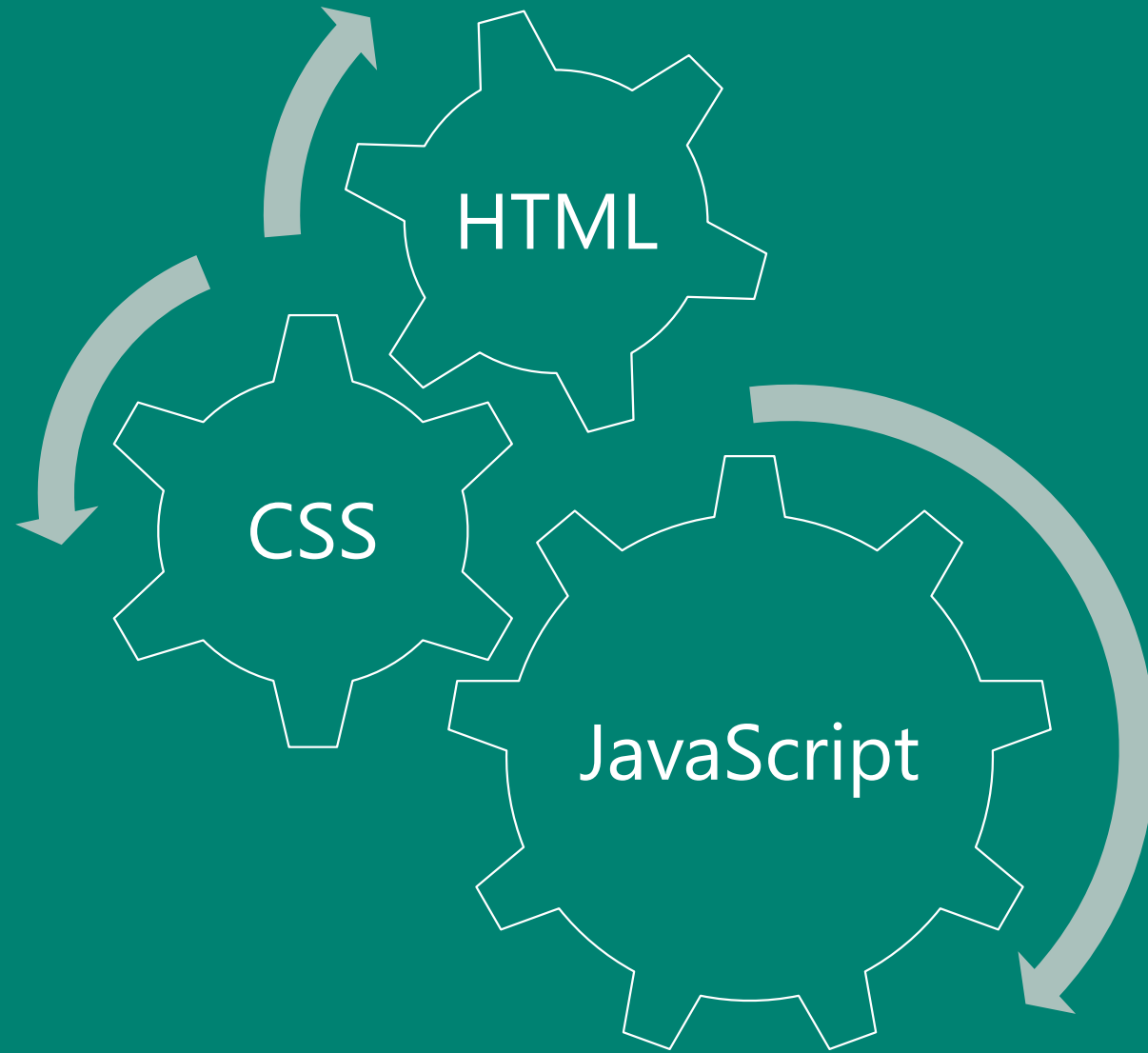
HTML



웹 클라이언트 기술 발전 순서



Web



RIA(Rich Internet Application)



HTML5 이전

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="ko" xml:lang="ko">
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
    <title>MVP COM CAMP</title>
    <link href="Site.css" rel="stylesheet" type="text/css" />
</head>
<body>
    <p>Windows App with HTML5, CSS3, JavaScript</p>
</body>
</html>
```

HTML5 이후

```
<!DOCTYPE html>
```

```
<html lang="ko">
```

```
<head>
```

```
    <meta charset="utf-8" />
```

```
    <title>MVP COM CAMP</title>
```

```
    <link href="Site.css" rel="stylesheet" />
```

```
</head>
```

```
<body>
```

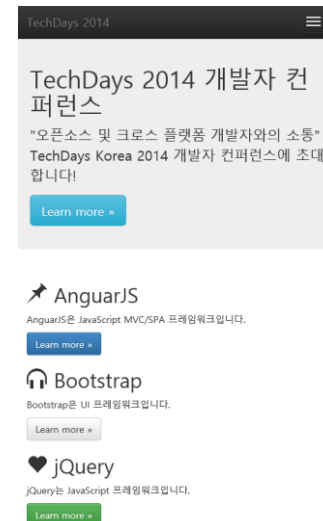
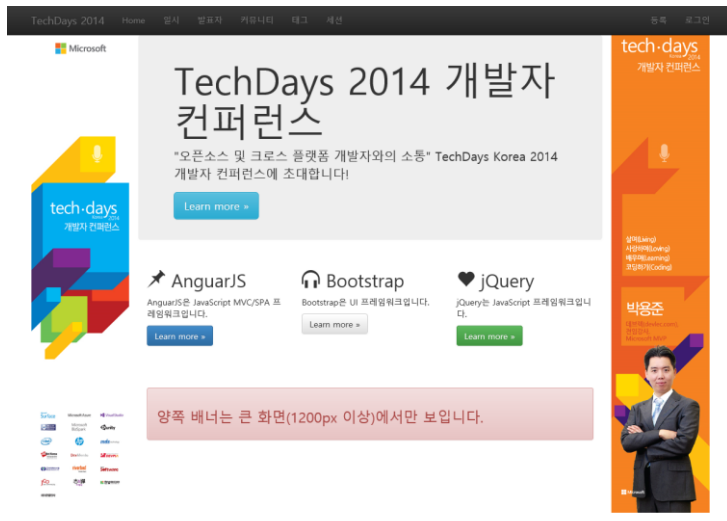
```
    <p>Windows App with HTML5, CSS3, JavaScript</p>
```

```
</body>
```

```
</html>
```

반응형 디자인(Responsive Design)

- 브라우저 크기마다 서로 다른 스타일 적용
 - 데스크톱 브라우저는 큰 사이즈에 맞게 보임
 - 모바일 브라우저는 모바일에 최적화되어 보이도록 설정
- CSS3 Media Queries: 사이즈에 따른 스타일
 - @media only screen and (max-width: 850px) {}

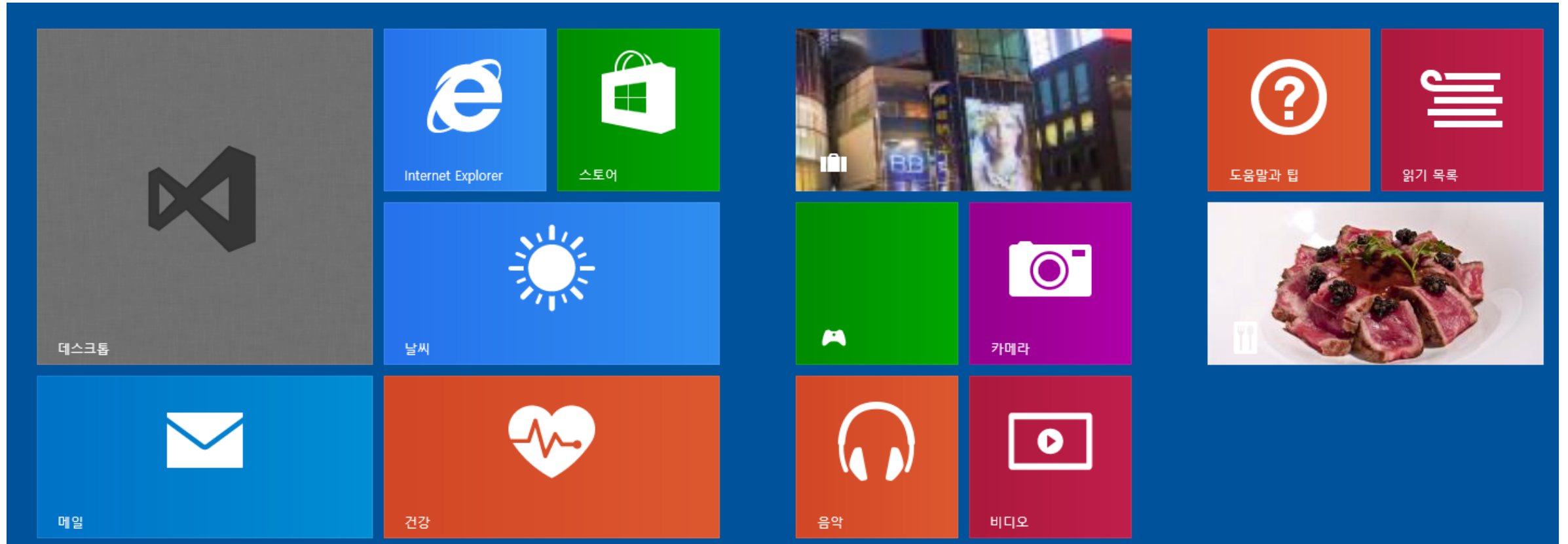


프레임워크의 등장!

- HTML
 - HTML5 Boilerplate
- CSS
 - Bootstrap
- JavaScript
 - jQuery
- **올인원**(MV*): MVC, MVVM, MVP, SPA, ...
 - AngularJS
- Windows Store App + Web
 - WinJS Everywhere



Windows Store App



HTML

데모



Hello, World Wide ~~Web~~App



MVP ComCamp

HTML, CSS, JavaScript 기존 경험 활용하기

데모

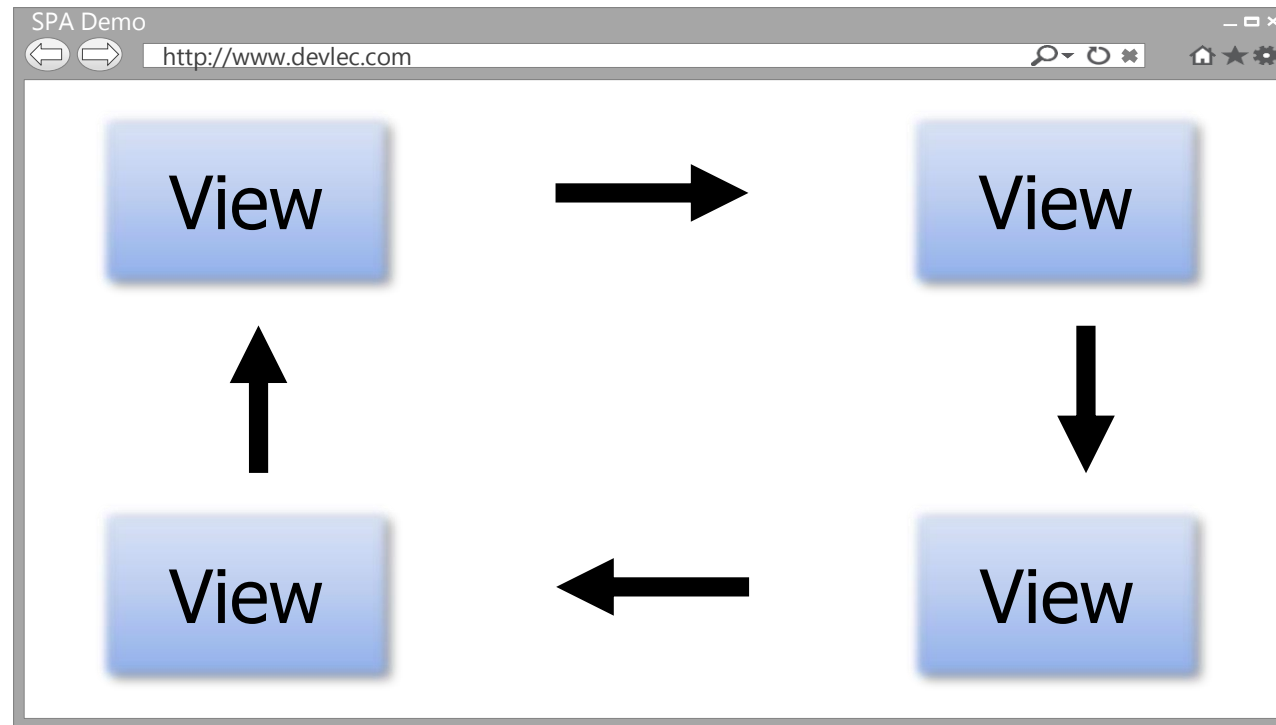
Windows App


$$5 * 8 = ??$$



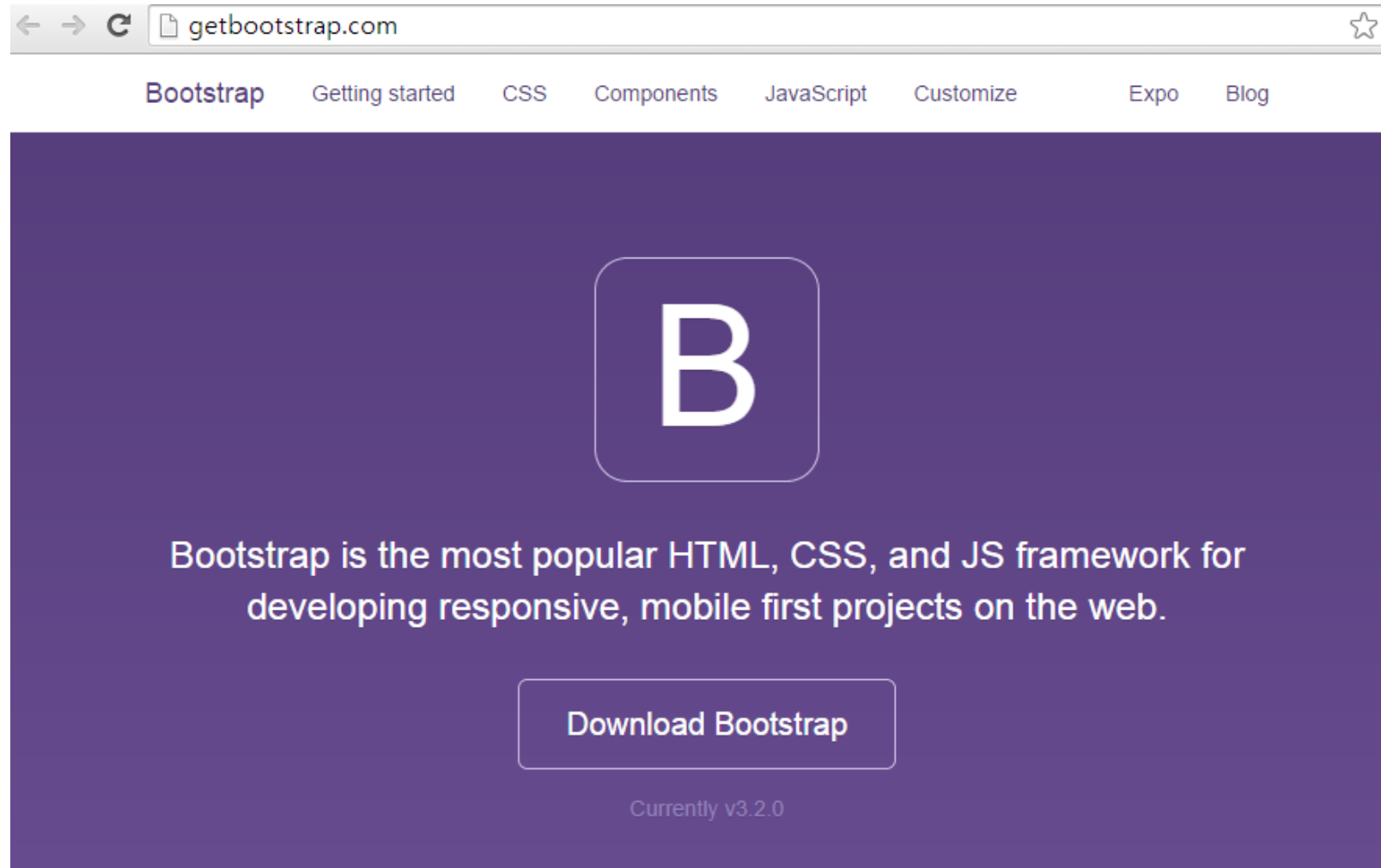
Navigation & Layout

Navigation : SPA



Bootstrap

- <http://getbootstrap.com/>



Bootstrap의 특징

Grid & Layout

CSS class 변경으로 손쉽게 웹 페이지 다중 **[레이아웃]** 구현

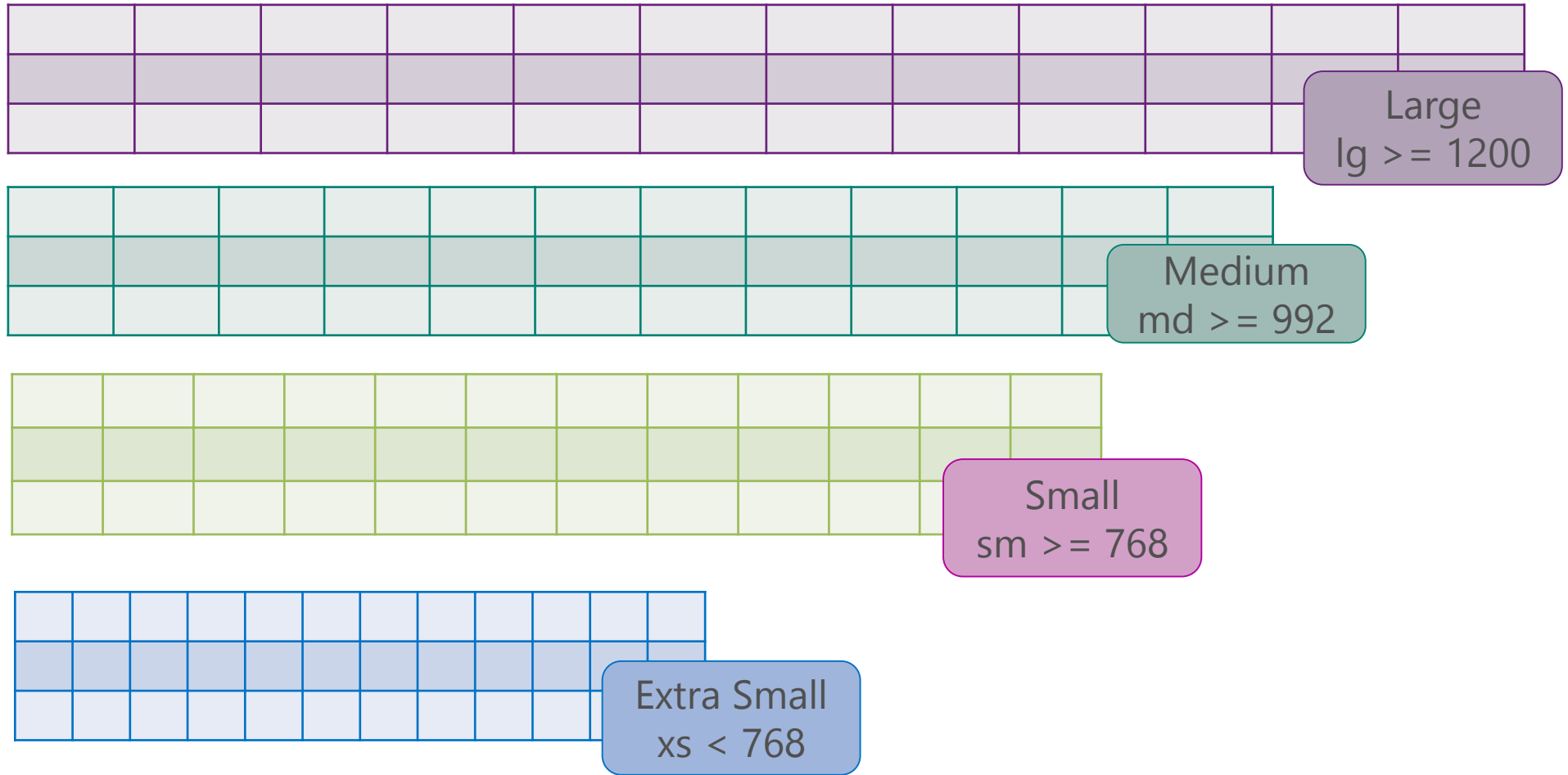
Mobile First Responsive Design

모바일과 태블릿 그리고 데스크톱을 위한 **[반응형 디자인]**

Components

버튼, 입력 요소, 페이지, 모달 등 다양한 **[컴포넌트]** 제공

Bootstrap Grid System



데모

Navigation



WinJS

- WinJS: JavaScript용 Windows 라이브러리
 - <https://dev.windows.com/ko-kr/develop/winjs>
 - WinJS는 JavaScript Toolkit의 집합
 - UI 컨트롤
 - 터치, 마우스, 키보드 등의 접근 제공
 - 응용 프로그램 제작의 구성요소 및 유틸리티
- WinJS Concepts
 - Initialization
 - Control Model
 - Binding



데모

WinJS

WinJS



Windows Developer Center

- <http://dev.windows.com>

무료 이북

- <http://www.microsoftvirtualacademy.com/ebooks>



Programming Windows Store Apps with HTML, CSS and JavaScript

Kraig Brockschmidt

April 2014

1,311 pages

Microsoft Press is pleased to offer the second edition of Kraig Brockschmidt's in-depth ebook on writing Windows Store apps using HTML, CSS3, and JavaScript on the Windows 8.1 platform. The ebook includes 20 chapters and 4 appendices. We're delighted to welcome you into a world of Windows Reimagined!

⌕ [Download the PDF](#) (30.1 MB)

⌕ [Download the EPUB file](#) (71.2 MB)

⌕ [Download the Mobi for Kindle file](#) (113 MB)

⌕ [Download Companion Files](#) (132 MB)

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추가로 살펴볼 내용

- WinJS
 - www.buildwinjs.com
 - 오픈소스
 - 크로스 플랫폼
- TypeScript
 - <http://www.typescriptlang.org/>
 - 오픈소스

1: HTML/CSS/JavaScript

2: Visual Studio / NuGet

3: jQuery, jQuery UI, jQuery Mobile...

4: Bootstrap + Bootstrap Snippet Pack

5: AngularJS + SideWaffle

6: WinJS



마무리

참고자료

사이트

Windows Developer Center: <http://dev.windows.com>

강좌

<http://channel9.msdn.com/>

<http://www.microsoftvirtualacademy.com/>

무료 이북

<http://www.microsoftvirtualacademy.com/ebooks>

아티클

Create your first Windows Store app using JavaScript

<http://msdn.microsoft.com/en-us/library/windows/apps/dn631758.aspx>

기타

데모 소스 다운로드:

<http://www.donetkorea.com/>

