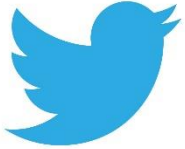# HTML for the XAML developer

Derik Whittaker

Contact Information

@derikwhittaker

http://bit.ly/blog_derikwhittaker

derik@graudo.com

Agenda

- Learn how to leverage your XAML skills to build HTML applications
- Learn about the tools we are going to use in this course
- Setup our template Asp.Net MVC project
- Implement a Hello World Asp.Net MVC application
- Review the application we will be building in this course

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Leveraging your XAML Skills – Data Context

XAML Way

```
public Home()
{
    InitializeComponent();

    DataContext = new HomeViewModel();
}
```

Constructor of the View

Bind the ViewModel to the Data Context

HTML/Knockout js Way

```
<script type="text/javascript">
    (function() {
        var vm = new ToDo.HomeViewModel();

    ko.applyBindings(vm);

    } )();
</script>
```

Script block in the View

Bind the ViewModel to the View via Knockout.js

Leveraging your XAML Skills – Binding

XAML Way

```
<TextBlock Grid.Column="1"
           Text="{Binding Task}" />
```

Bind to a property in the View Model

HTML/Knockout js Way

```
<input type="text"
    data-bind="value: Task"/>
```

Value attribute   Bound Property

Bind to a property in the View Model

Leveraging your XAML Skills – Commanding

XAML Way

```xml
<Button Content="Add New" Width="75"
        Command="{Binding AddToDoCommand}" />
```

Bind to a ICommand
In the View Model

HTML/Knockout js Way

```html
<input type="button" value="Filter"
       style="width: 65px;" data-bind="click: filterList" />
```

Bind to a Method in the
View Model

Click attribute

Bound Method

Leveraging your XAML Skills – Styles

XAML Way

Using a Style Converter to Change the Style

```
<Ellipse Grid.Column="0"
        Style="{Binding Status.Description,
                Converter={StaticResource StateToEllipseConverter}}" />
```

Bind to a property to change the CSS style

HTML/Knockout js Way

```
<span data-bind="css: { strikethrough: IsCompleted }">
</span>
```

CSS attribute   Style to apply   Expression to evaluate

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Tools/Frameworks

jQuery – jquery.com

Fast, small, feature-rich JavaScript library

Typescript – typscriptlang.org

Typed superset of Javascript that compiles to plain JavaScript

Knockout.js – knockoutjs.com

Lightweight MVVM library for JavaScript

Twitter Bootstrap – twitter.github.com/bootstrap/

Powerful front-end framework for easier web development

Tools/Frameworks

Asp.Net MVC – asp.net/mvc

Framework which gives a powerful, patterns-based way to build websites

Asp.Net Web Api – asp.net/web-api

Framework which makes it easy to build HTTP services

Underscore.js – underscorejs.org

Utility belt library which provides functional programming for JavaScript

Many, many nuget packages – nuget.org

Nuget is a package management utility for Visual Studio

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MVC Template Project Setup

- **Install all our Nuget packages**

- **Setup our JavaScript and Typescript bundlers**

- **Enable our JavaScript and Typescript bundles**

- **Run the MVC Template application**

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Implement the Hello World Application

- **Create our first ViewModel w/ Typescript and Knockoutjs**

- **Create our first Knockout Binding**

- **Create our Knockout Data Context**

- **Demo**

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Summary

- How to leverage our XAML skills for building HTML applications
- Learned about the tools we are going to
- Built our Asp.Net MVC template project
- Implemented a Hello World application
- Reviewed our sample applications