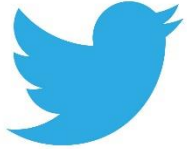


# HTML for the XAML developer

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# Contact Information



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# **Agenda**

- **Learn how to leverage your XAML skills to build HTML applications**
- **Learn about the tools we are going to use in this course**
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**END OF Overview Slides**

# 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/Knockoutjs 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/Knockoutjs Way

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

Bind to a property in the  
View Model

Value attribute

Bound Property

# Leveraging your XAML Skills – Commanding

## XAML Way

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

Bind to a ICommand  
In the View Model



## HTML/Knockout.js Way

```
<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

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


Using a Style Converter to  
Change the Style



HTML/Knockout js Way

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

Bind to a property to  
change the CSS style



CSS attribute



Style to apply



Expression to evaluate



**END OF Leveraging XAML Skills Slide**

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# Tools/Frameworks

## **jQuery – [jquery.com](http://jquery.com)**

Fast, small, feature-rich JavaScript library

## **Typescript – [typescriptlang.org](http://typescriptlang.org)**

Typed superset of Javascript that compiles to plain JavaScript

## **Knockout.js – [knockoutjs.com](http://knockoutjs.com)**

Lightweight MVVM library for JavaScript

## **Twitter Bootstrap – [twitter.github.com/bootstrap/](https://twitter.github.com/bootstrap/)**

Powerful front-end framework for easier web development

# Tools/Frameworks

## **Asp.Net MVC – [asp.net/mvc](http://asp.net/mvc)**

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

## **Asp.Net Web Api – [asp.net/web-api](http://asp.net/web-api)**

Framework which makes it easy to build HTTP searches

## **Underscore.js – [underscorejs.org](http://underscorejs.org)**

Utility belt library which provides functional programming for JavaScript

## **Many, many nuget packages – [nuget.org](http://nuget.org)**

Nuget is a package management utility for Visual Studio

**END OF Tools being used slide**

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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

**END OF MVC Template slide**



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# **Implement the Hello World Application**

- **Create our first ViewModel w/ Typescript and Knockoutjs**
- **Create our first MVC Controller Action**
- **Implement our Knockout.js bindings**
- **Demo**

**END OF Hello World Slide**

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