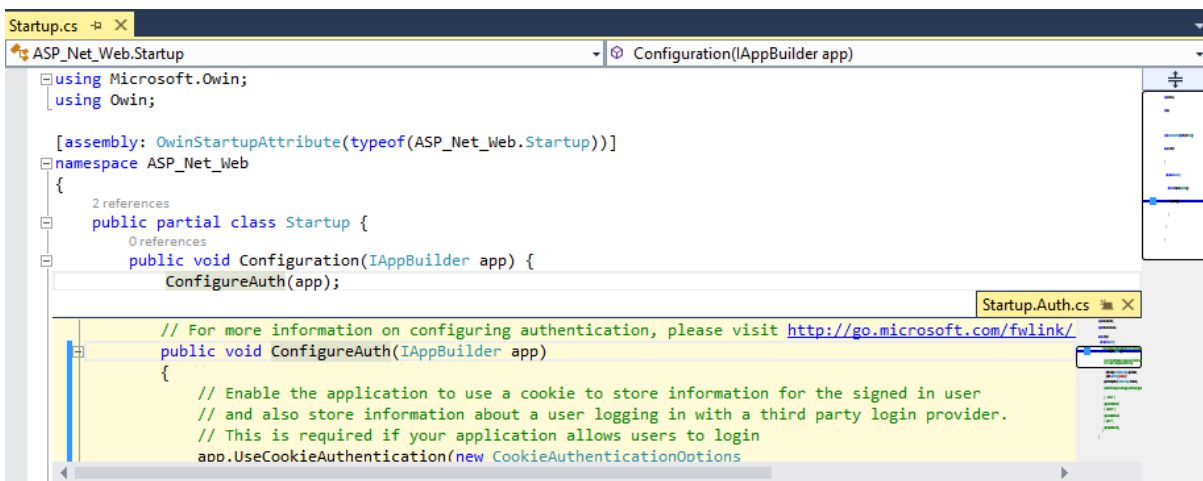
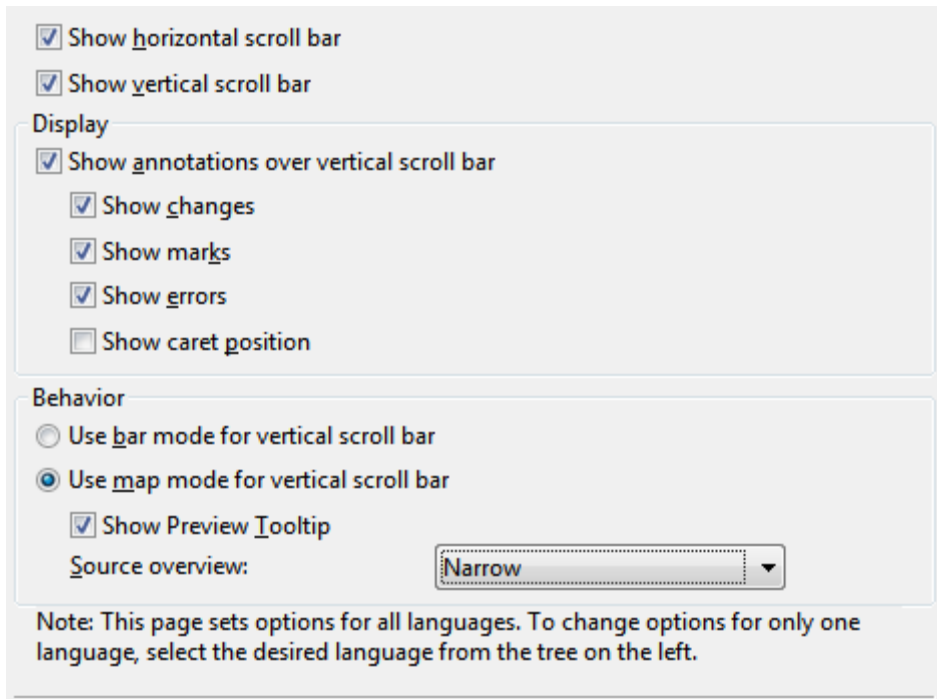


Chapter 1: Discovering Visual Studio 2013



```
6 references  
public class HomeController : Controller  
{  
    1 reference | 1/1 passing  
    public ActionResult Index()  
    {  
        return View();  
    }  
}  
2 3  
1 reference | 1/1 passing  
public ActionResult About()  
{  
    ViewBag.Message = "Your application description page.";
```

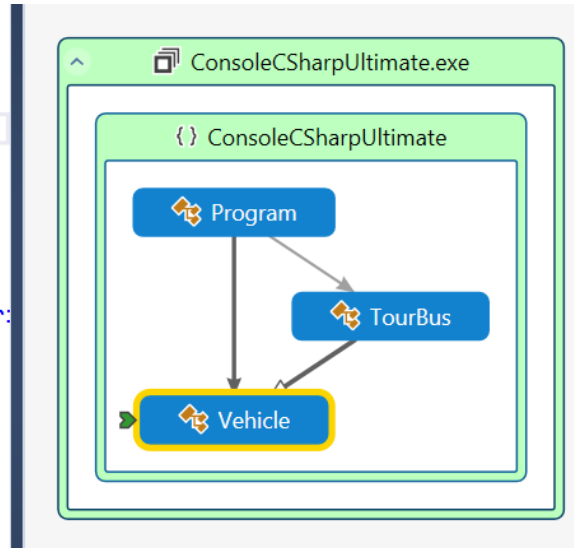
```

namespace ConsoleCSharpUltimate
{
    5 references
    class Vehicle
    {
        protected int passengers;
        protected string name;

        2 references
        public Vehicle(int passengers, str:
        {
            this.passengers = passengers;
            this.name = name;
        }

        1 reference
        public int getPassengers()
    }
}

```



open

Menus (9)

- File → Open → Project/Solution... (Ctrl+Shift+O)
- File → Open → Web Site... (Shift+Alt+O)
- File → Open → Open from Source Control
- File → Open → Team Project...
- File → Open → File... (Ctrl+O)
- File → Open → Convert...
- View → Open
- View → Open With...
- Test → Playlist → Open Playlist File...

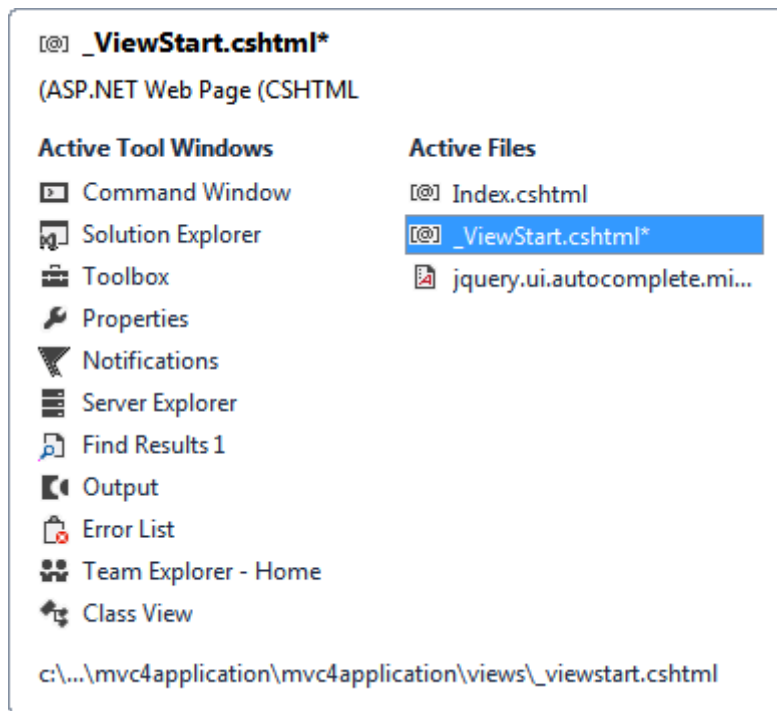
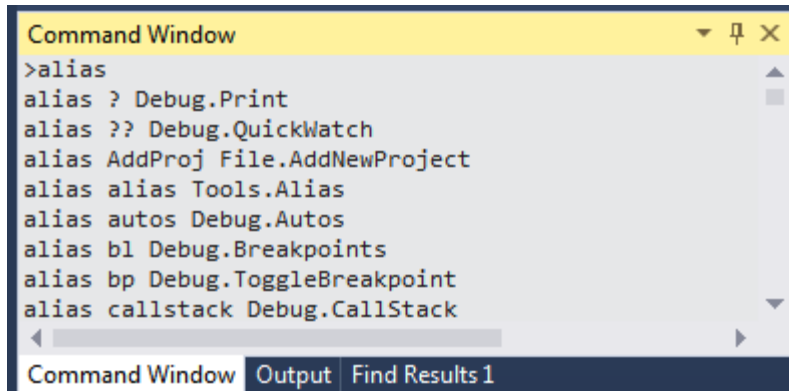
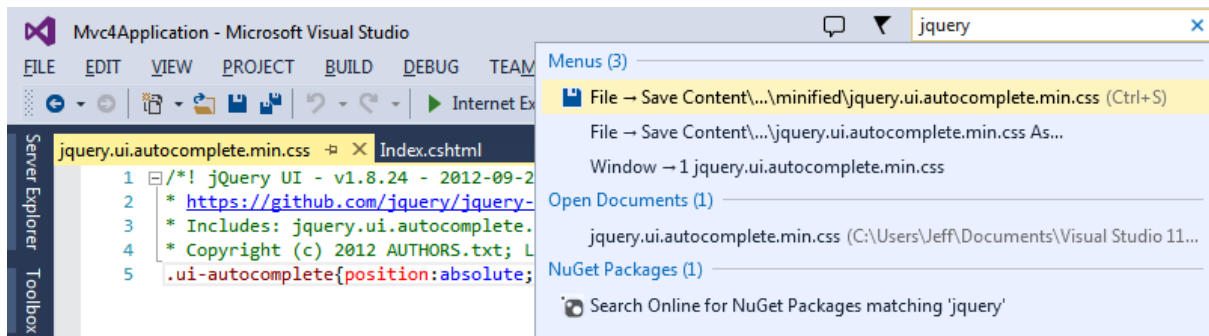
Options (7)

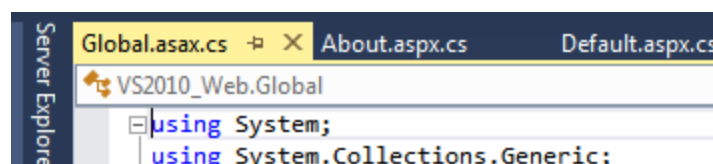
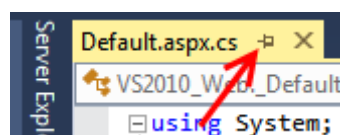
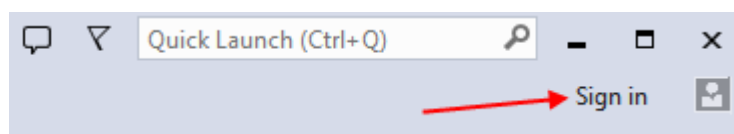
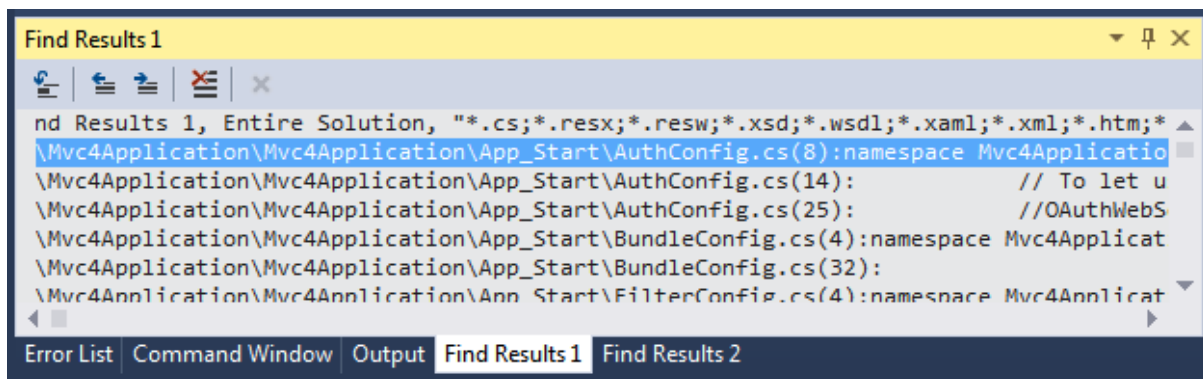
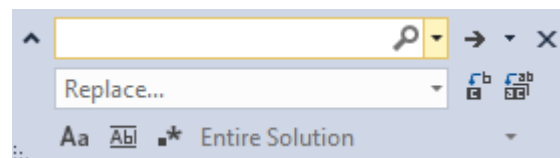
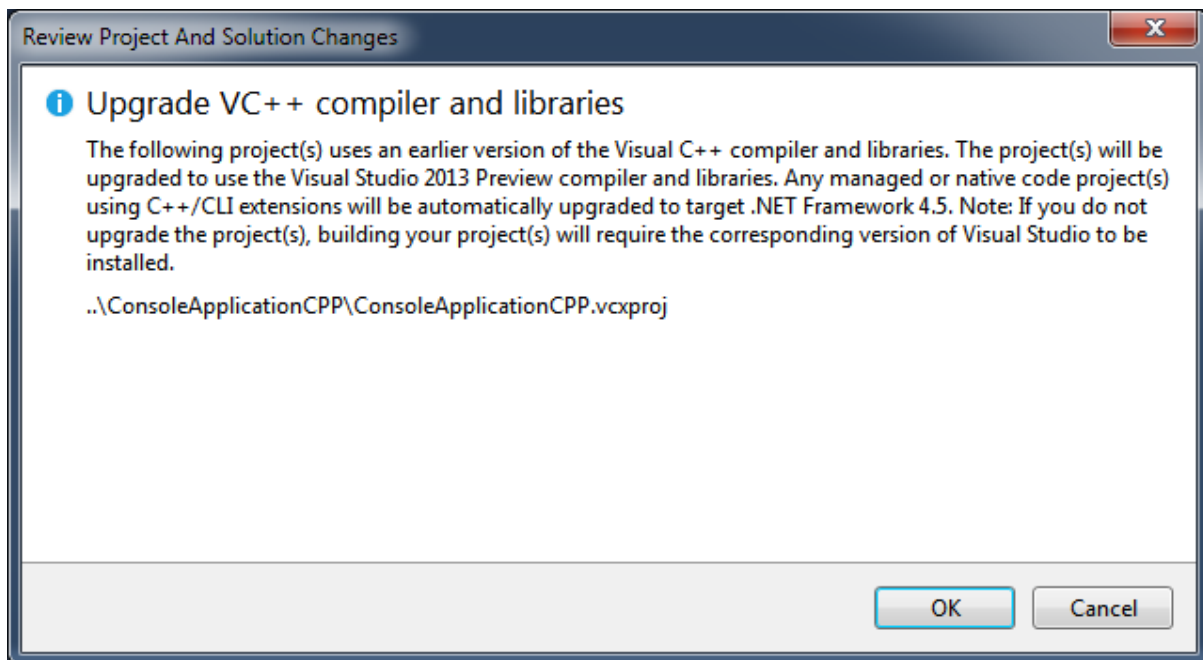
- Text Editor → File Extension (Opening the file...)
- Environment → Documents (Change default directory of open file dialog, S...
- Text Editor → C# → Advanced (Enter outlining mode when files open, Unde...
- Text Editor → C# → Formatting → Indentation (Indent open and close brace...
- Text Editor → C/C++ → Formatting → New Lines (Change placement of op...
- Text Editor → C/C++ → Formatting → Spacing (Change spacing options for...
- Text Editor → JavaScript → Formatting → New Lines (Change open brace set...

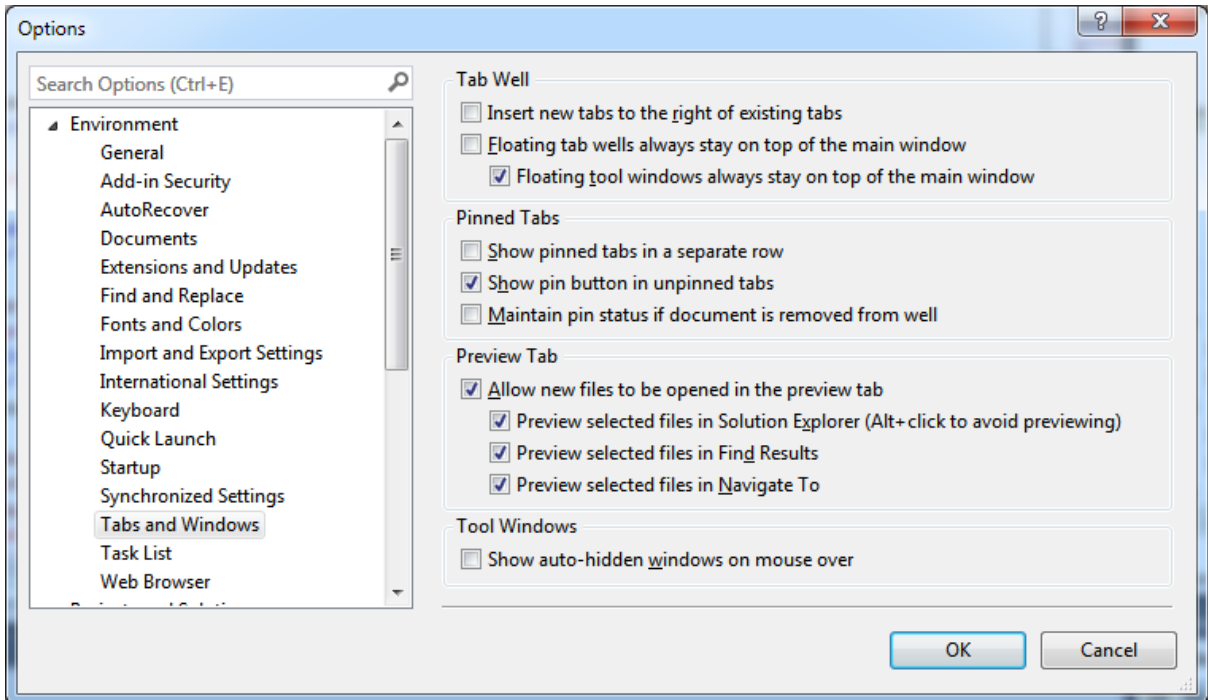
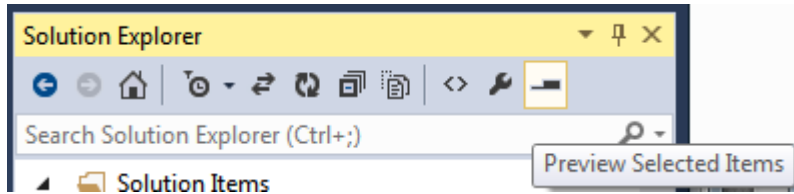
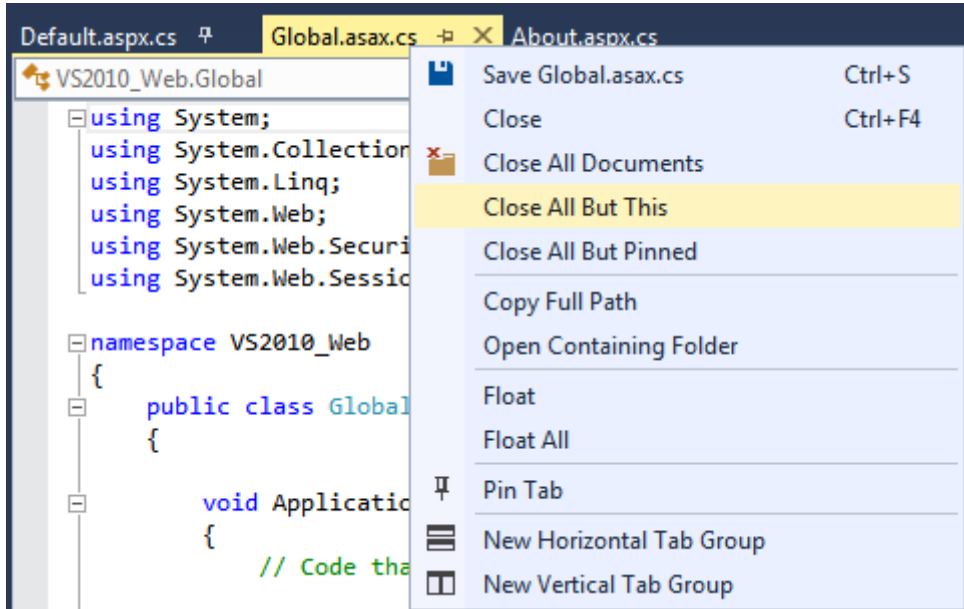
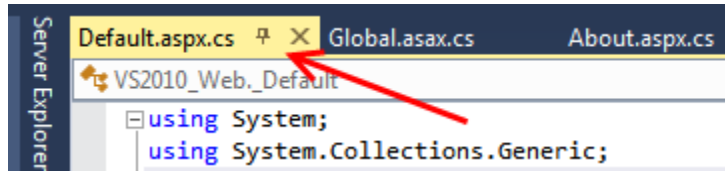
NuGet Packages (1)

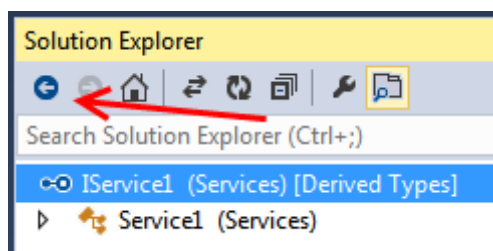
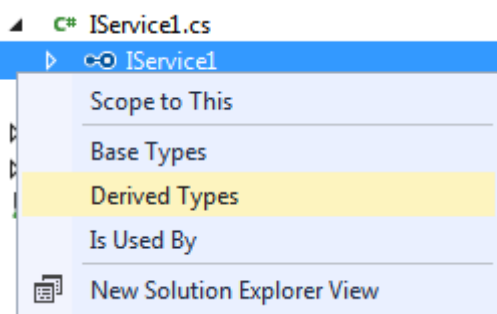
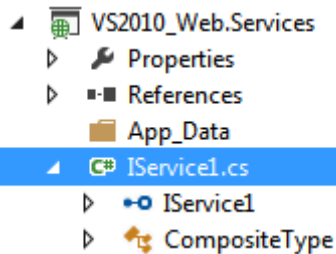
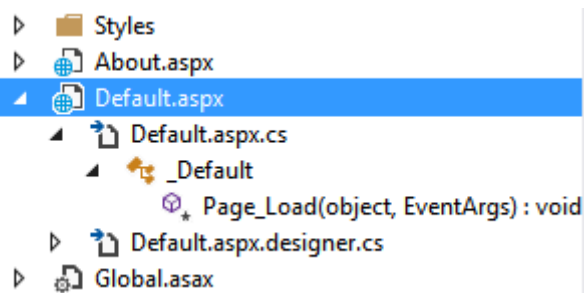
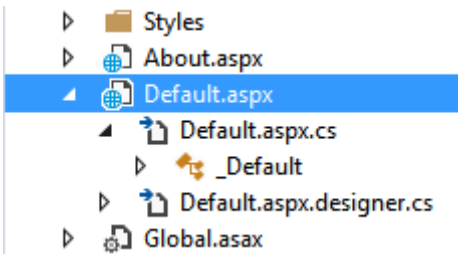
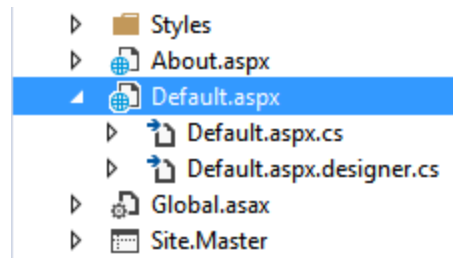
- Search Online for NuGet Packages matching 'open'

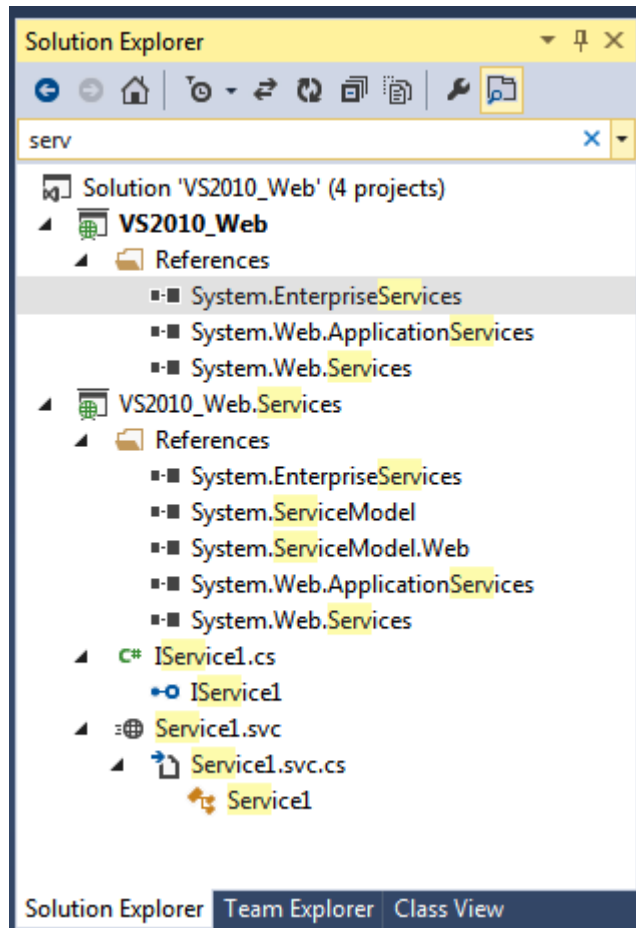
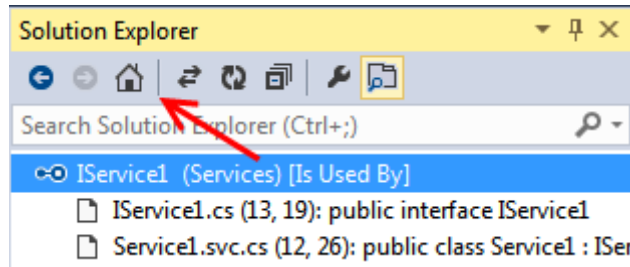
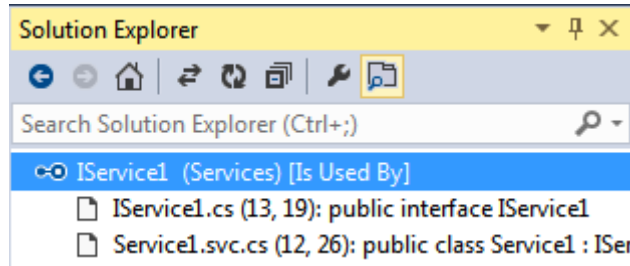
Press Ctrl+Q to show 'Menus' results. ?

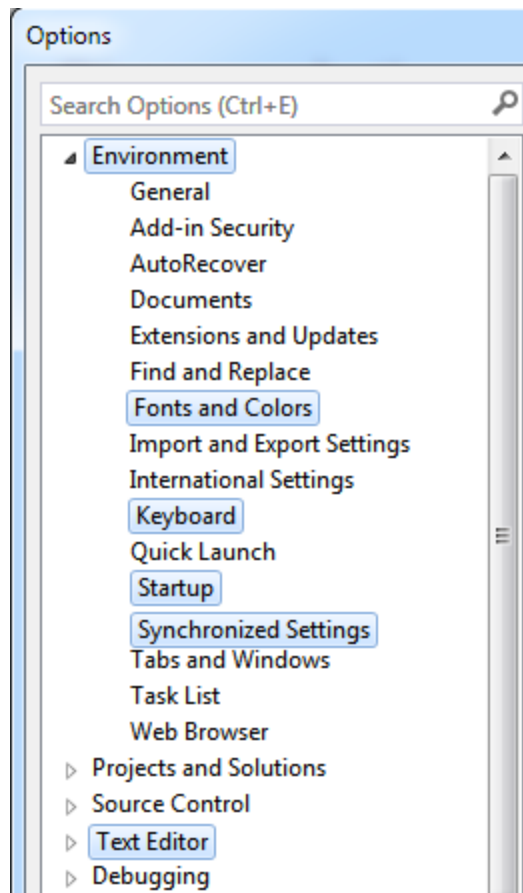
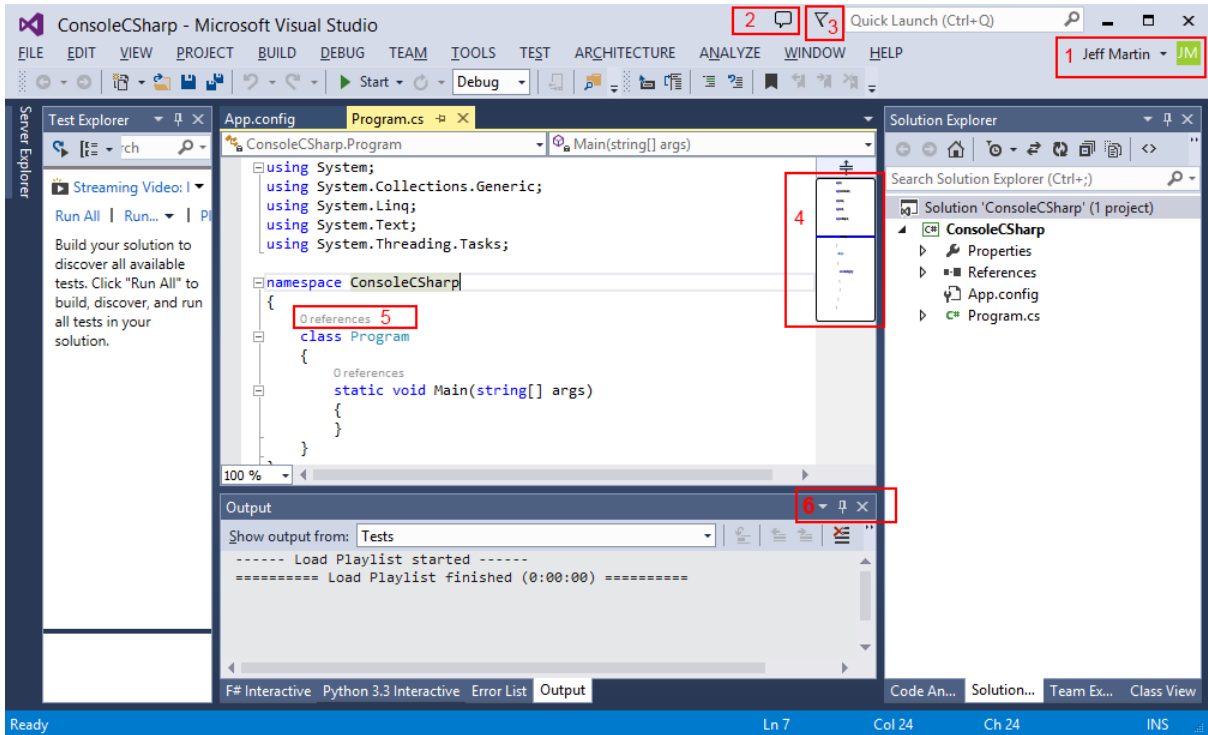


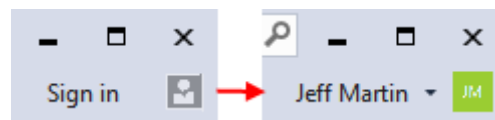
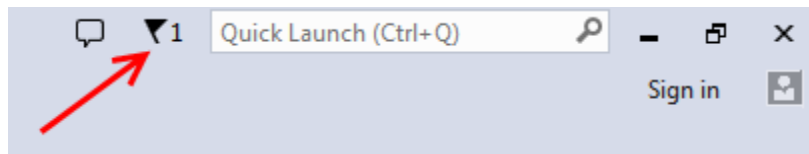
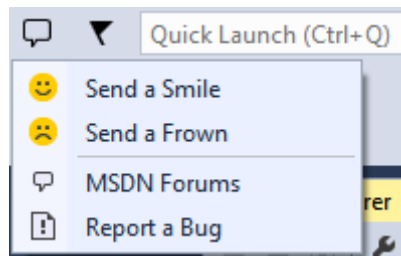












```
Program.cs [x]
BuildNeuralNetworkDemo.NeuralNetwork
NeuralNetwork(int numInput, int numHidden, int numOutput)

// back-prop momentum specific arrays (could be local to method Train)
private double[][] ihPrevWeightsDelta; // for momentum with back-propagation
private double[] hPrevBiasesDelta;
private double[][] hoPrevWeightsDelta;
private double[] oPrevBiasesDelta;

public NeuralNetwork(int numInput, int numHidden, int numOutput)
{
    rnd = new Random(0); // for InitializeWeights() and Shuffle()

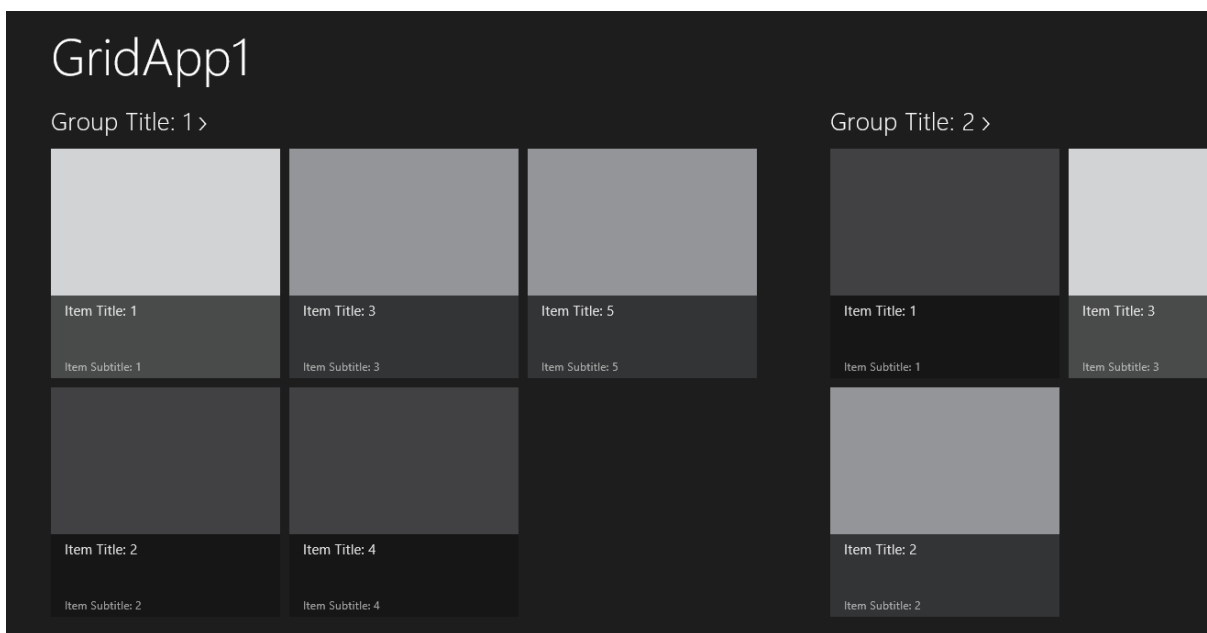
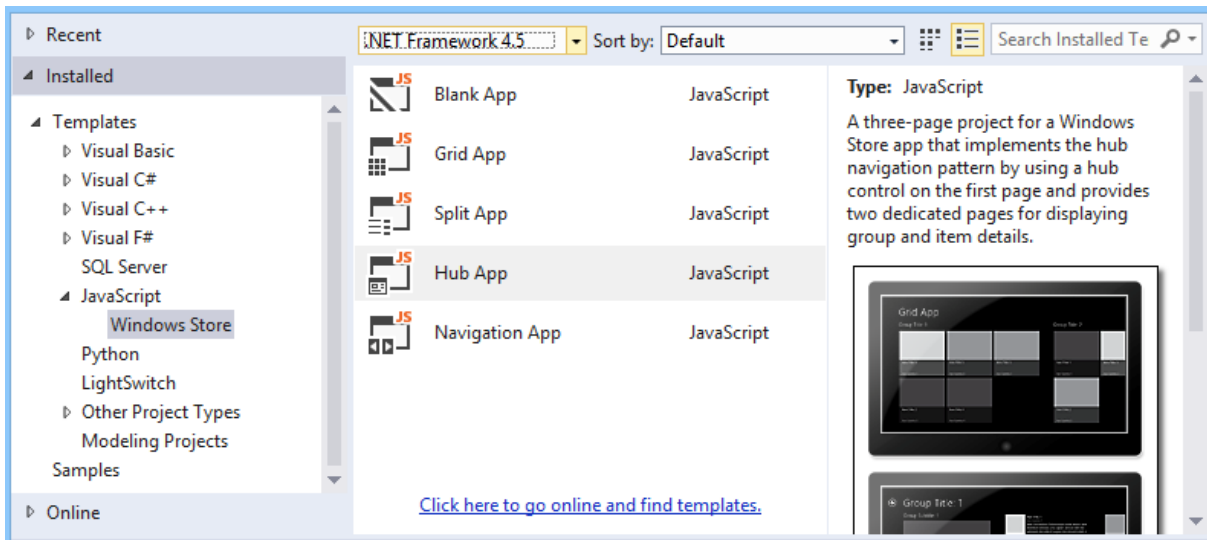
    this.numInput = numInput;
    this.numHidden = numHidden;
    this.numOutput = numOutput;

    this.inputs = new double[numInput];

    this.ihWeights = MakeMatrix(rnd, numInput, numHidden);
    this.hBiases = new double[numHidden];
    this.hOutputs = new double[numHidden];

    public void SetWeights(double[] weights)
    {
        // copy weights and biases in weights array
        int numWeights = (numInput * numHidden) + numHidden;
        if (weights.Length != numWeights)
            throw new Exception("Bad weights array length");
    }
}
```

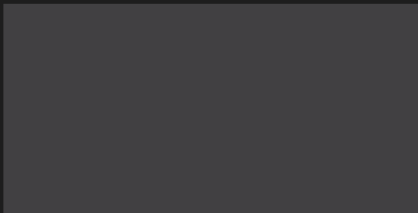
Chapter 2: Getting Started with Windows Store Applications



← Item Title: 1

← Group Title: 1

Group Subtitle: 1



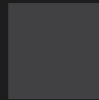
Group Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus tempor scelerisque lorem in vehicula. Aliquam tincidunt, lacus ut sagittis tristique, turpis massa volutpat augue, eu rutrum ligula ante a ante



Item Title: 1
Item Subtitle: 1
Item Description: Pellentesque porta mauris quis interdum vehicula urna sapien ultrices velit nec venenatis dui odio in augue cras posuere enim a



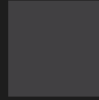
Item
Item
inter
ven



Item Title: 2
Item Subtitle: 2
Item Description: Pellentesque porta mauris quis interdum vehicula urna sapien ultrices velit nec venenatis dui odio in augue cras posuere enim a



Item Title: 3
Item Subtitle: 3
Item Description: Pellentesque porta mauris quis interdum vehicula urna sapien ultrices velit nec venenatis dui odio in augue cras posuere enim a



Item Title: 4
Item Subtitle: 4
Item Description: Pellentesque porta mauris quis interdum vehicula urna sapien ultrices velit nec venenatis dui odio in augue cras posuere enim a

← Group Title: 1

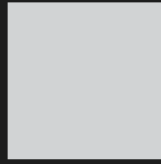
Item Title: 1
Item Subtitle: 1 ✓

Item Title: 2
Item Subtitle: 2

Item Title: 3
Item Subtitle: 3

Item Title: 4
Item Subtitle: 4

Item Title: 5
Item Subtitle: 5



Item Title: 1
Item Subtitle: 1

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam duis convallis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi condimentum commodo scelerisque faucibus aenean ullamcorper ante mauris dignissim consectetur nullam lorem vestibulum habitant conubia elementum pellentesque morbi facilisis arcu sollicitudin diam cubilia aptent vestibulum auctor eget dapibus pellentesque inceptos leo egestas interdum nulla consectetur suspendisse adipiscing pellentesque proin lobortis sollicitudin augue elit mus congue fermentum parturient fringilla euismod feugiat

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam duis convallis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi condimentum commodo scelerisque faucibus aenean ullamcorper ante mauris dignissim consectetur nullam lorem vestibulum habitant conubia elementum pellentesque morbi facilisis arcu sollicitudin diam cubilia aptent vestibulum auctor eget dapibus pellentesque inceptos leo egestas interdum nulla consectetur suspendisse adipiscing pellentesque proin lobortis sollicitudin augue elit mus congue fermentum parturient fringilla euismod feugiat

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam duis convallis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi condimentum commodo scelerisque faucibus aenean ullamcorper ante mauris dignissim consectetur nullam lorem vestibulum habitant conubia elementum pellentesque morbi facilisis arcu sollicitudin diam cubilia aptent vestibulum auctor eget dapibus pellentesque inceptos leo egestas interdum nulla consectetur suspendisse adipiscing pellentesque proin lobortis sollicitudin augue elit mus congue fermentum parturient fringilla euismod feugiat

HubJSApp1

Section 1



Lorem ipsum dolor sit nonummy sed consectetur ising elit, sed diam

Description text:

Lorem ipsum dolor sit amet, consectetur ising elit, sed diam nonummy nibh uismod tincidunt ut laoreet suscipit lobortis nisl ut wisi quipexerci quis consequat minim veniam, quis nostrud, exerci tation ullam corper. Lorem ipsum dolor sit amet, consectetur ising elit, sed diam nonummy nibh uismod tincidunt ut laoreet suscipit lobortis nisl ut wisi quipexerci quis consequat minim veniam, quis nostrud, exerci tation ullam corper. Lorem ipsum dolor sit amet, consectetur ising elit, sed diam nonummy nibh uismod tincidunt ut laoreet suscipit

Section 2 >



Item Title: 1
Item Subtitle: 1
Item Description: Pellentesque porta mauris quis interdum vehicula urna sapien ultrices velit nec venenatis dui odio in augue cras



Item Title: 2
Item Subtitle: 2
Item Description: Pellentesque porta mauris quis interdum vehicula urna sapien ultrices velit nec venenatis dui odio in augue cras



Item Title: 3
Item Subtitle: 3
Item Description: Pellentesque porta mauris quis interdum vehicula urna sapien ultrices velit nec venenatis dui odio in augue cras



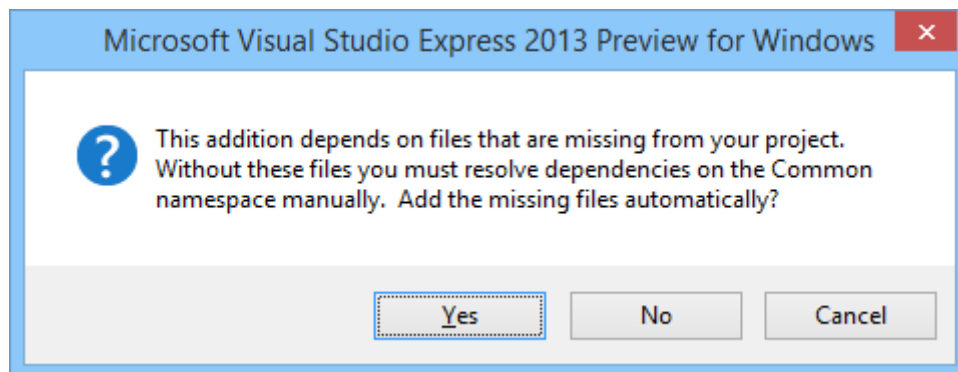
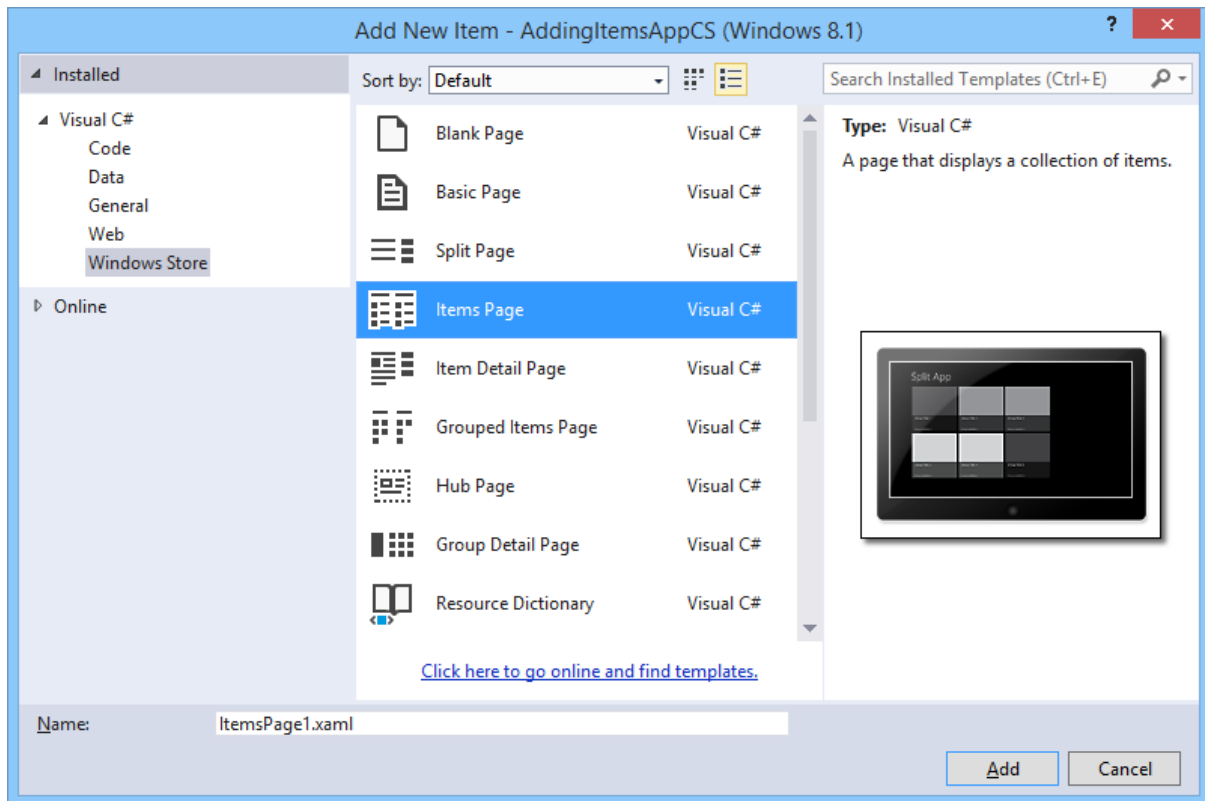
Item Title: 4
Item Subtitle: 4
Item Description: Pellentesque porta mauris quis interdum vehicula urna sapien ultrices velit nec venenatis dui odio in augue cras

Section 3



Description text:

Lorem ipsum dolor sit amet, consectetur ising nonummy nibh uismod tincidunt ut laoreet suscipit lobortis nisl ut wisi quipexerci quis consequat minim veniam, quis nostrud, exerci tation ullam corper. Lorem ipsum dolor sit amet, consectetur ising elit, sed diam nonummy nibh uismod tincidunt ut laoreet suscipit lobortis nisl ut wisi quipexerci quis consequat minim veniam, quis nostrud, exerci tation ullam corper.

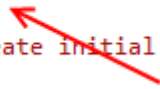


```
namespace InsertItemAppCS
{
    class DataClass
    {
        public string Title { get; set; }
        public string Subtitle { get; set; }
    }
}
```

```
private void navigationHelper_LoadState(object sender, LoadStateEventArgs e)
{
    // TODO: Assign a bindable collection of items to this.DefaultViewModel["Items"]
    var list = new List<DataClass>() {
        new DataClass(){Title = "Fish", Subtitle="First Item"},
        new DataClass(){Title = "Lion", Subtitle="Second Item"},
        new DataClass(){Title = "Zebra", Subtitle="Third Item"}
    };

    this.defaultViewModel["Items"] = list;
}
```

```
if (!rootFrame.Navigate(typeof(ItemsPage1), e.Arguments))
{
    throw new Exception("Failed to create initial page");
}
```



My Application



Fish

First Item



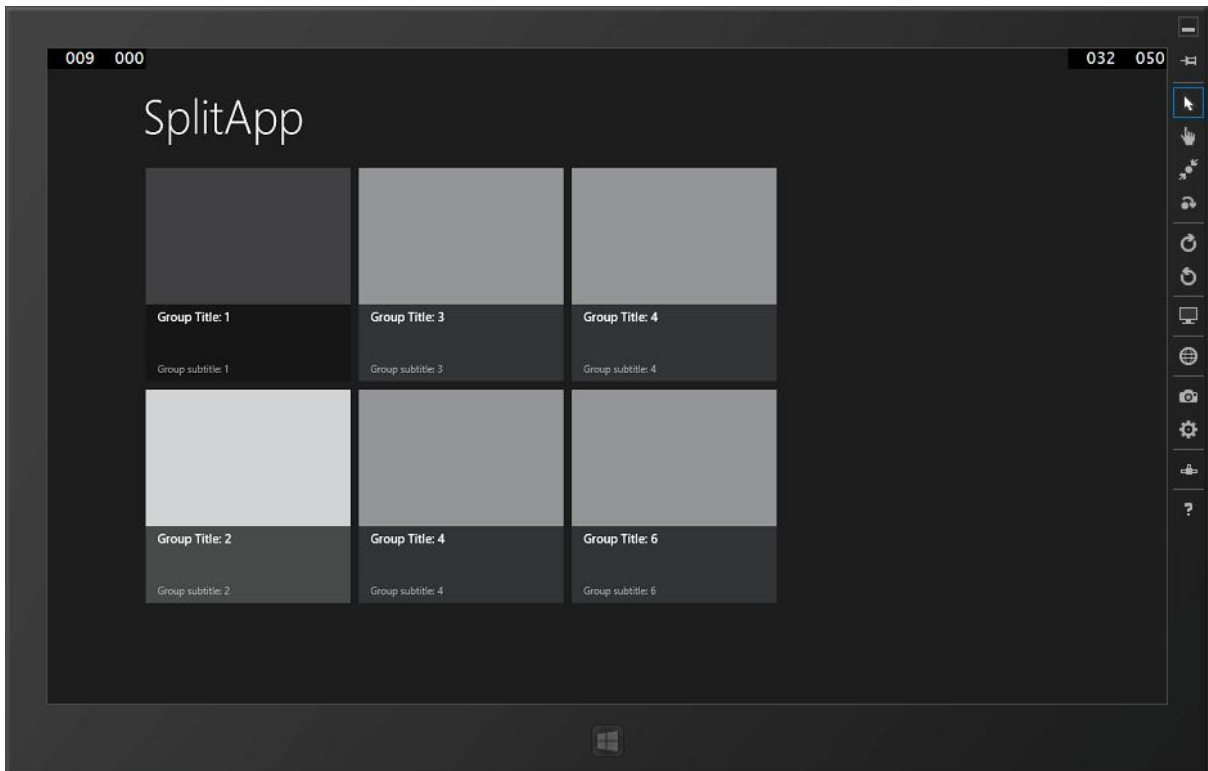
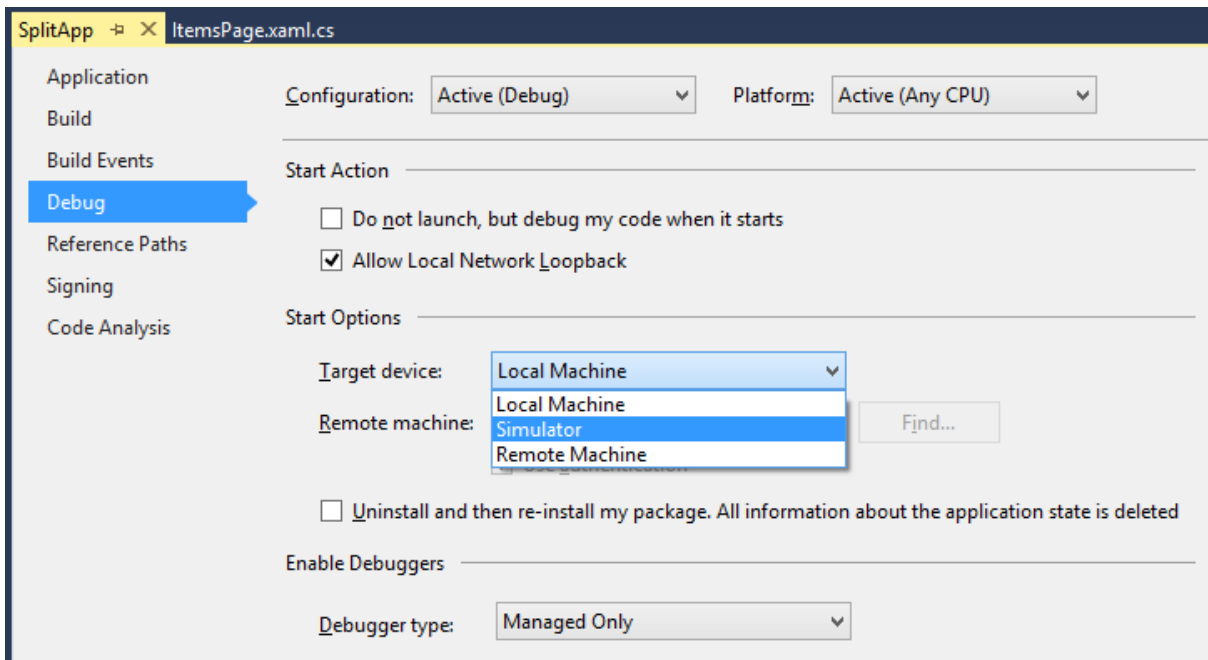
Zebra

Third Item



Lion

Second Item



← Group Title..

Item Title: 1
Item Subtitle: 1

Item Title: 2
Item Subtitle: 2

Item Title: 3
Item Subtitle: 3

Item Title: 4
Item Subtitle: 4

Item Title: 5
Item Subtitle: 5

Item Title: 6
Item Subtitle: 6

Item Title: 7
Item Subtitle: 7



Item Title: 3
Item Subtitle: 3

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam duis conwallis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi condimentum commodo scelerisque faucibus aenean ullamcorper ante mauris dignissim consectetur nullam lorem vestibulum habitant conubia elementum pellentesque morbi facilisis arcu sollicitudin diam cubilia aptent vestibulum auctor eget dapibus pellentesque inceptos leo egestas interdum nulla consectetur suspendisse adipiscing pellentesque proin lobortis sollicitudin augue elit mus congue fermentum parturient fringilla euismod feugiat

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam duis conwallis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi condimentum commodo scelerisque faucibus aenean ullamcorper ante mauris dignissim consectetur nullam lorem vestibulum habitant conubia elementum pellentesque morbi facilisis arcu sollicitudin diam cubilia aptent vestibulum auctor eget dapibus pellentesque inceptos leo egestas interdum nulla consectetur suspendisse adipiscing pellentesque proin lobortis sollicitudin augue elit mus congue fermentum parturient fringilla euismod feugiat

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam duis conwallis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi condimentum commodo scelerisque faucibus aenean ullamcorper ante mauris dignissim consectetur nullam lorem vestibulum habitant conubia elementum pellentesque morbi facilisis arcu sollicitudin diam cubilia aptent vestibulum auctor eget dapibus pellentesque inceptos leo egestas interdum nulla consectetur suspendisse adipiscing pellentesque proin lobortis sollicitudin augue elit mus congue fermentum parturient fringilla euismod feugiat

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent



← Group Title: 3

Item Title: 1

Item Subtitle: 1

Item Description: Pellentesque porta, mauris quis interdum vehicula, urna sapien ultrices velit, nec venenatis dui odio in augue. Cras posuere, enim a...

Item Title: 2

Item Subtitle: 2

Item Description: Pellentesque porta, mauris quis interdum vehicula, urna sapien ultrices velit, nec venenatis dui odio in augue. Cras posuere, enim a...

Item Title: 3

Item Subtitle: 3

Item Description: Pellentesque porta, mauris quis interdum vehicula, urna sapien ultrices velit, nec venenatis dui odio in augue. Cras posuere, enim a...

Item Title: 4

Item Subtitle: 4

Item Description: Pellentesque porta, mauris quis interdum vehicula, urna sapien ultrices velit, nec venenatis dui odio in augue. Cras posuere, enim a...

Item Title: 5

Item Subtitle: 5

Item Description: Pellentesque porta, mauris quis interdum vehicula, urna sapien ultrices velit, nec venenatis dui odio in augue. Cras posuere, enim a...

feugiat

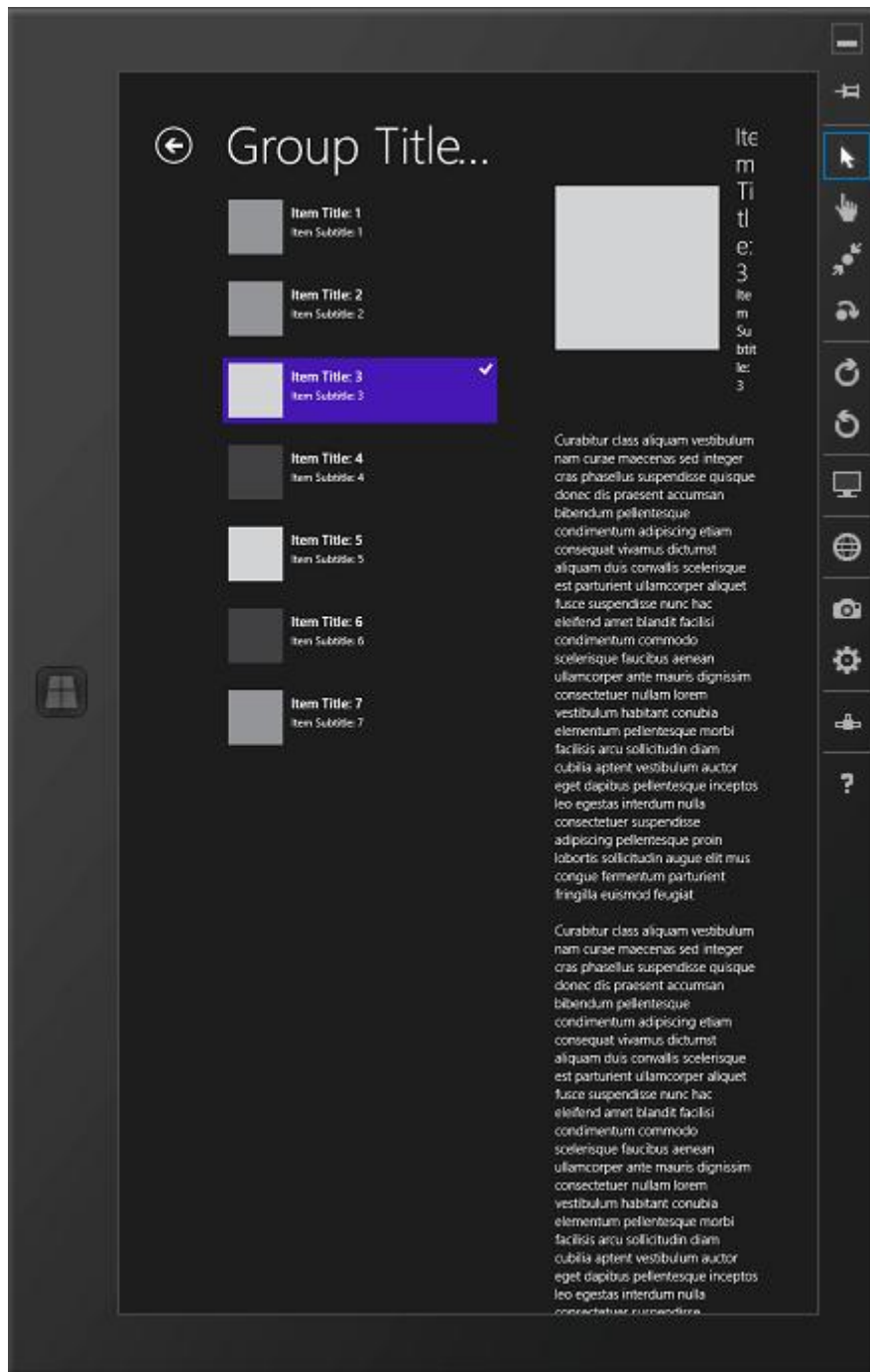
Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam dui convalis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi condimentum commodo scelerisque faucibus aenean ullamcorper ante mauris dignissim consectetur nullam lorem vestibulum habitant conubia elementum pellentesque morbi facilisis arcu sollicitudin diam cubilia aptent vestibulum auctor eget dapibus pellentesque inceptos leo egestas interdum nulla consectetur suspendisse adipiscing pellentesque proin lobortis sollicitudin augue elit mus congue fermentum parturient fringilla euismod feugiat

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam dui convalis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi condimentum commodo scelerisque faucibus aenean ullamcorper ante mauris dignissim consectetur nullam lorem vestibulum habitant conubia elementum pellentesque morbi facilisis arcu sollicitudin diam cubilia aptent vestibulum auctor eget dapibus pellentesque inceptos leo egestas interdum nulla consectetur suspendisse adipiscing pellentesque proin lobortis sollicitudin augue elit mus congue fermentum parturient fringilla euismod feugiat

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam dui convalis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi condimentum commodo scelerisque faucibus aenean ullamcorper ante mauris dignissim consectetur nullam lorem vestibulum habitant conubia elementum pellentesque morbi facilisis arcu sollicitudin diam cubilia aptent vestibulum auctor eget dapibus pellentesque inceptos leo egestas interdum nulla consectetur suspendisse adipiscing pellentesque proin lobortis sollicitudin augue elit mus congue fermentum parturient fringilla euismod feugiat

Curabitur class aliquam vestibulum nam curae maecenas sed integer cras phasellus suspendisse quisque donec dis praesent accumsan bibendum pellentesque condimentum adipiscing etiam consequat vivamus dictumst aliquam dui convalis scelerisque est parturient ullamcorper aliquet fusce suspendisse nunc hac eleifend amet blandit facilisi











```
private void ItemListView_SelectionChanged(object sender, SelectionChangedEventArgs e)
{
    // Invalidate the view state when logical page navigation is in effect, as a change
    // in selection may cause a corresponding change in the current logical page. When
    // an item is selected this has the effect of changing from displaying the item list
    // to showing the selected item's details. When the selection is cleared this has the
    // opposite effect.
    if (this.UsingLogicalPageNavigation()) this.InvalidateVisualState();
}

```

Attach to: Automatic: IntelliTrace code, Managed (v4.5, v4.0) code Select...

Available Processes

Process	ID	Title	Type	User Name	Session
SplitApp.exe	3712	splitapp.exe_00000e80_01ceb2...	'IntelliTrace Debug ...	JADE\Jeff [low-rights]	3
TabTip.exe	4324		x64	JADE\Jeff [administrator]	3
TabTip32.exe	2632		x86	JADE\Jeff [administrator]	3

-  7" 1920 X 1200 (16:10, 140%)
-  7.5" 1440 X 1080 (4:3, 140%)
-  10.6" 1024 X 768 (4:3, 100%)
- 10.6" 1366 X 768 (16:9, 100%)
-  10.6" 1920 X 1080 (16:9, 140%)
-  10.6" 2560 X 1440 (16:9, 180%)
-  12" 1280 X 800 (16:10, 100%)
- 23" 1920 X 1080 (16:9, 100%)
- 27" 2560 X 1440 (16:9, 100%)

Package.appxmanifest

The properties of the deployment package for your app are contained in the app manifest file. You can use the Manifest Designer to set or modify one or more of the properties.

Application UI Capabilities Declarations Content URIs Packaging

Use this page to set the properties that identify and describe your app.

Display name: SplitApp

Entry point: SplitApp.App

Default language: en-US [More information](#)

Description: SplitApp

Supported rotations: An optional setting that indicates the app's orientation preferences.

Landscape
 Portrait
 Landscape-flipped
 Portrait-flipped

Minimum width: (not set) [More information](#)

The properties of the deployment package for your app are contained in the app manifest file. You can use the Manifest Designer to set or modify one or more of the properties.

Application UI

Capabilities

Declarations

Content URIs

Packaging

Use this page to specify system features or devices that your app can use.

Capabilities:

- Enterprise Authentication
- Internet (Client)
- Internet (Client & Server)
- Location
- Microphone
- Music Library
- Pictures Library
- Private Networks (Client & Server)
- Proximity
- Removable Storage
- Shared User Certificates
- Videos Library
- Webcam

Description:

Provides outbound access to the Internet and networks in public places. For example, Intranet networks where the user has designated the network. Internet access should use this capability.

[More information](#)

The properties of the deployment package for your app are contained in the app manifest file. You can use the Manifest Designer to set or modify one or more of the properties.

Application UI

Capabilities

Declarations

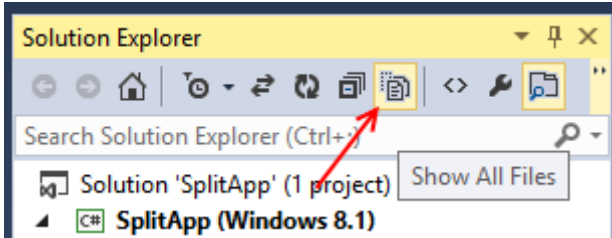
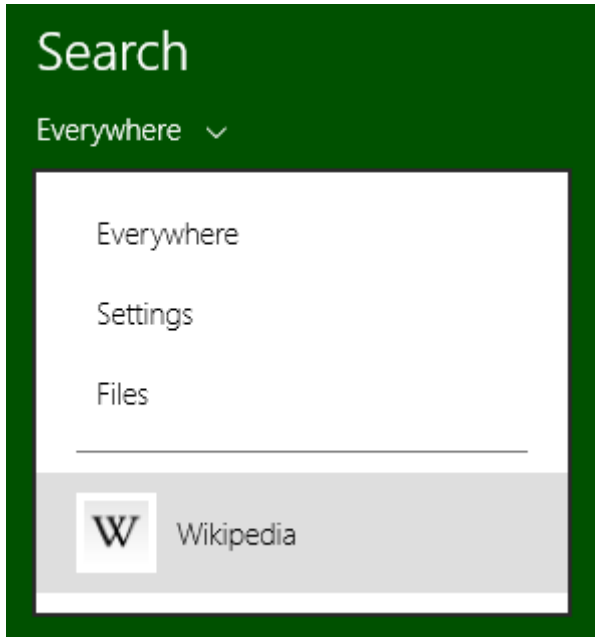
Content URIs

Packaging

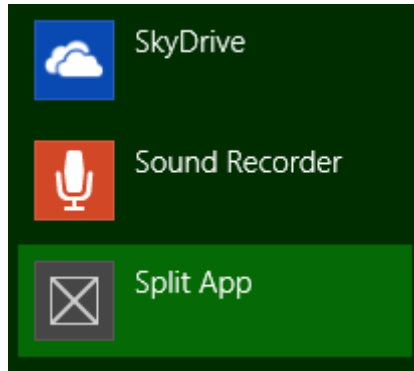
Use this page to add declarations and specify their properties.

Available Declarations:

- Select one...
- AutoPlay Device
 - Background Tasks
 - Cached File Updater
 - Camera Settings
 - Certificates
 - Contact Picker
 - File Open Picker
 - File Save Picker
 - File Type Associations
 - Print Task Settings
 - Protocol
 -
 - Share Target



- ▶ ■■ References
- ▶ ■ Assets
- ▶ ■ bin
- ▶ ■ Debug
- ▶ ■ AppX
 - App.xbf
 - AppxManifest.xml
 - ItemsPage.xbf
 - resources.pri
 - SplitApp.build.appxrecipe
 - SplitApp.exe
 - SplitApp.pdb
 - SplitPage.xbf



Create Your Packages

Do you want to build packages to upload to the Windows Store?

Yes

No

You don't have to sign in with a Microsoft account. The packages can be used only on a computer that has a developer license installed or meets the requirements for sideloading Windows Store apps. For more information, see the [developer license](#) and the [sideloading requirements](#).

Create App Packages

Select and Configure Packages

Output location:
C:\Users\Jeff\documents\visual studio 2013\Projects\SplitApp\SplitApp\AppPackages\

Version:
1 . 0 . 0 . 0
 Automatically increment

Generate app bundle:
Never
[What does an app bundle mean?](#)

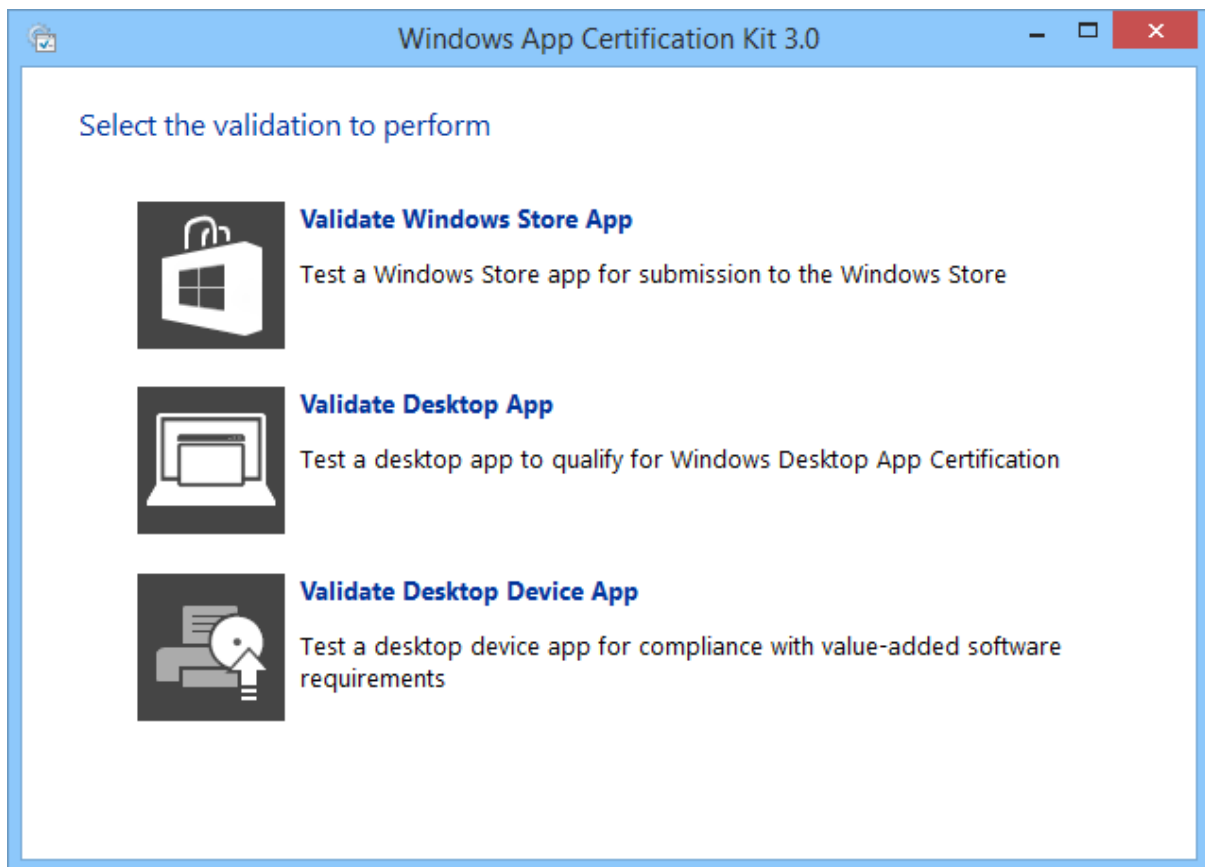
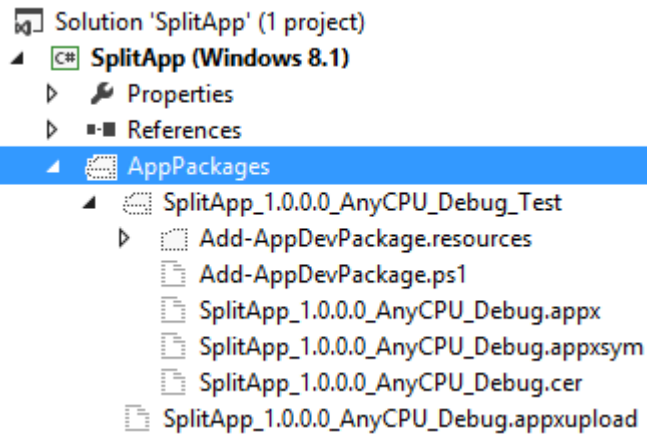
Select the packages to create and the solution configuration mappings:

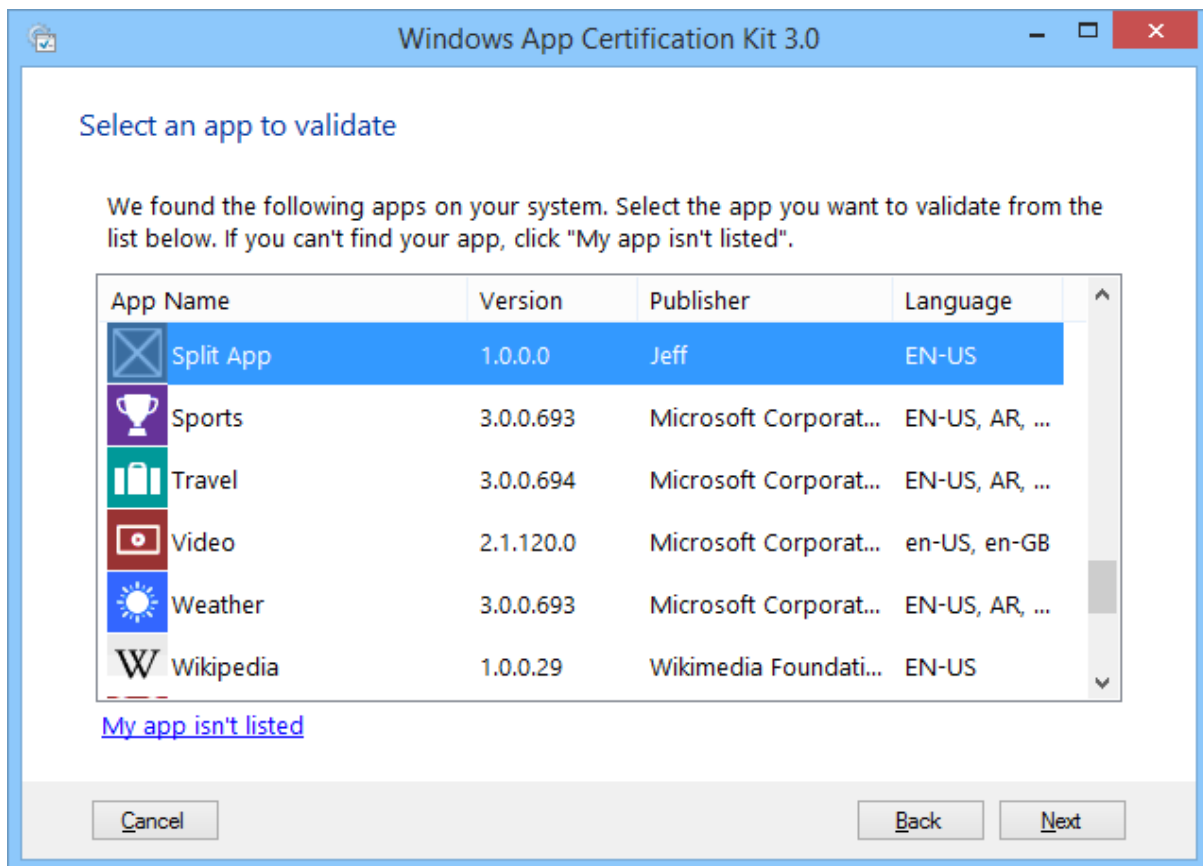
Architecture	Solution Configuration
<input checked="" type="checkbox"/> Neutral	Debug (Any CPU)
<input type="checkbox"/> x86	Debug (x86)
<input type="checkbox"/> x64	Debug (x64)
<input type="checkbox"/> ARM	Debug (ARM)

Include public symbol files, if any, to enable crash analysis for the app

i To run validation locally, you must select at least one solution configuration that is both non-Debug and contains an architecture that runs on the local machine.

Previous Create Cancel





Analysis Target

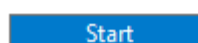


Startup Project

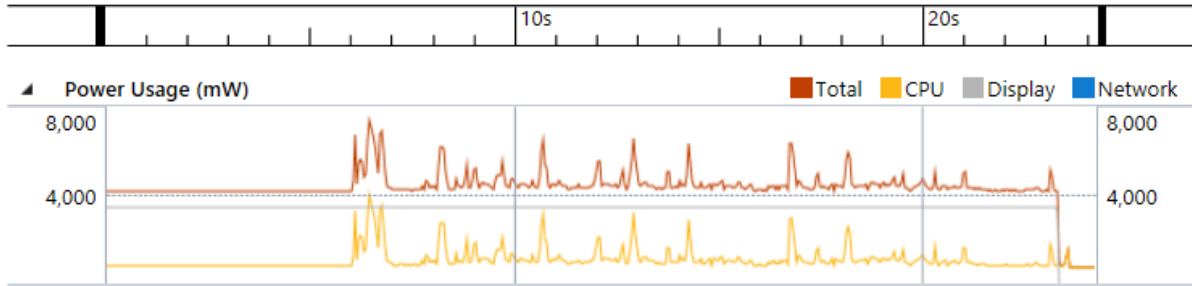
SplitApp (Windows 8.1)

Available Tools

- CPU Sampling
Examine which functions are using the CPU most frequently
- Energy Consumption
Examine where energy is consumed in your application
- XAML UI Responsiveness
Examine where time is spent in your application



Diagnostic session: 24.28 seconds



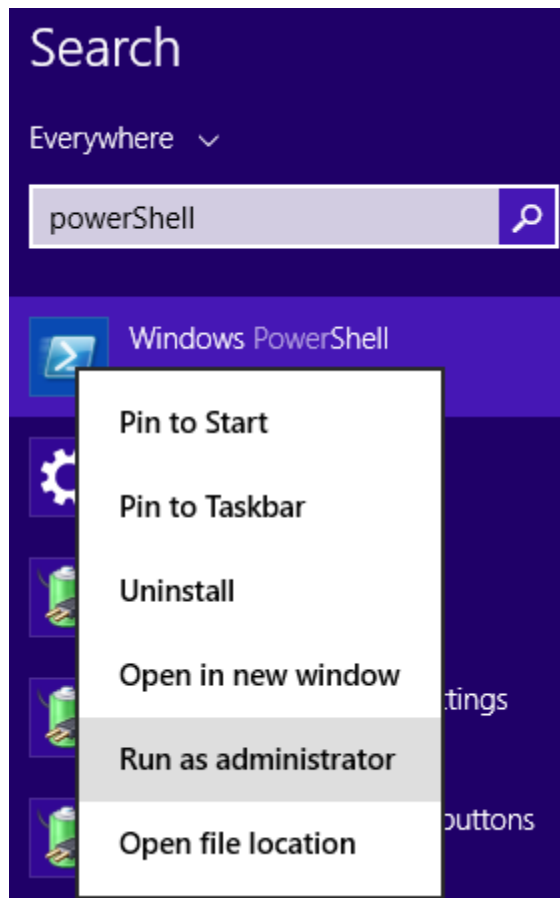
Resources (On/Off)

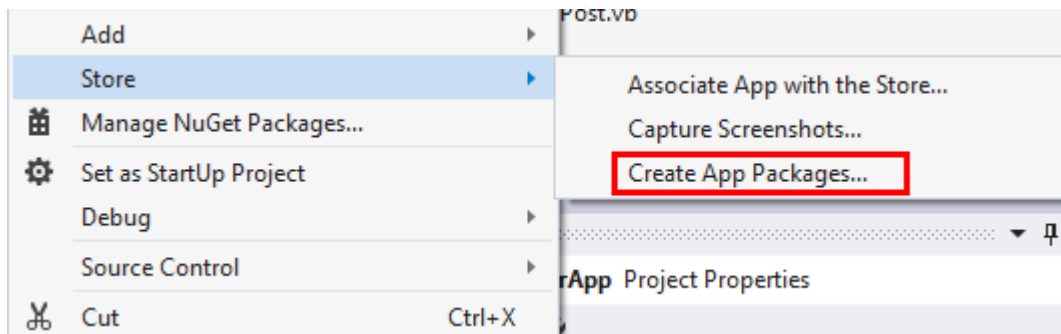
- ▶ Ethernet Network
- ▶ 2G Network
- ▶ 3G Network
- ▶ 4G Network
- ▶ Wi-Fi Network

Energy Usage Summary (mW-h)

The donut chart illustrates the energy usage distribution. The CPU component accounts for 24% of the total energy usage, while the Display component accounts for 76%.

The session consumed 28.89 mW-h of battery charge in 24.28 s. This rate of usage will drain a fully charged standard battery in approximately 9.8 hrs.





The properties of the deployment package for your app are contained in the app manifest file. More of the properties.

Application

Visual Assets

Capabilities

Declarations

Use this page to add declarations and specify their properties.

Available Declarations:

File Type Associations	Add
Account Picture Provider	
AutoPlay Content	
AutoPlay Device	
Background Tasks	
Cached File Updater	
Camera Settings	
Certificates	
Contact Picker	
File Open Picker	
File Save Picker	
File Type Associations	
Print Task Settings	
Protocol	
Search	
Share Task	

Capabilities

Declarations

Content URIs

Packaging

Properties:

Display name: SplitApp HTML viewer

Logo:

Info tip: Allows viewing HTML

Name: html

Edit flags

Open is safe

Always unsafe

Supported file types

At least one file type must be supported. Enter at least one file type; for example, ".jpg".

Supported file type

Content type: text/html

File type: .html

Supported file type

Content type: text/html

File type: .htm

Application

Visual Assets

Capabilities

Declarations

Windows Store apps should support displays of different resolutions. Windows provides a simple

[More information](#)

All Image Assets

Tile Images and Logos

Square 70x70 Logo

Square 150x150 Logo

Wide 310x150 Logo

Square 310x310 Logo

Square 30x30 Logo

Store Logo

Badge Logo

Splash Screen

Tile:

Short name:

Show name: Square 150x150 Logo

Wide 310x150 Logo

Square 310x310 Logo

Default size: (not set)

Foreground text: Light

Background color: #464646

```
if (rootFrame.Content == null)
{
    // When the navigation stack isn't restored navigate to the first page,
    // configuring the new page by passing required information as a navigation
    // parameter
    rootFrame.Navigate(typeof(ItemsPage1), e.Arguments);
}
// Ensure the current window is active
Window.Current.Activate();
```



The screenshot shows the Visual Studio interface with the 'PROJECT' menu open. The 'Store' option is selected, revealing a submenu with the following items: 'Open Developer Account...', 'Reserve App Name...', 'Acquire Developer License...' (highlighted), 'Edit App Manifest', 'Associate App with the Store...', 'Capture Screenshots...', 'Create App Packages...', and 'Upload App Packages...'. The main menu items include 'Add Class...', 'Add New Item...' (Ctrl+Shift+A), 'Add Existing Item...' (Shift+Alt+A), 'Exclude From Project', 'Show All Files', 'Add Push Notification...', 'Add Connected Service...', 'Add Reference...', 'Add Service Reference...', 'Set as StartUp Project', 'Store', 'Manage NuGet Packages...', 'Enable NuGet Package Restore', and 'GridApp1 Properties...'. The background shows a code editor with a snippet of Latin text: 'porta, mauris quis interdum vehicula nam curae maecenas sed integer cras'.

PROJECT BUILD DEBUG TEAM SQL TOOLS TEST ARCHITECTURE ANALYZE WIN

- Add Class...
- Add New Item... Ctrl+Shift+A
- Add Existing Item... Shift+Alt+A
- Exclude From Project
- Show All Files
- Add Push Notification...
- Add Connected Service...
- Add Reference...
- Add Service Reference...
- Set as StartUp Project
- Store
 - Open Developer Account...
 - Reserve App Name...
 - Acquire Developer License...
 - Edit App Manifest
 - Associate App with the Store...
 - Capture Screenshots...
 - Create App Packages...
 - Upload App Packages...
- Manage NuGet Packages...
- Enable NuGet Package Restore
- GridApp1 Properties...

UniqueId": "Group-1-Item-4",
Title": "Item Title: 4",
Subtitle": "Item Subtitle: 4",
ImagePath": "Assets/DarkGray.png",
Description" : "Item Description: Pellentesque
Content" : "Curabitur class aliquam vestibulum

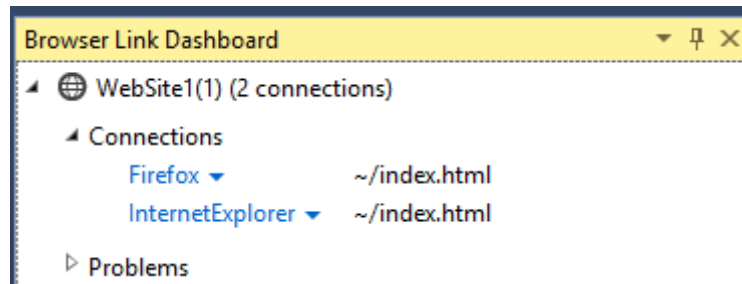
porta, mauris quis interdum vehicula
nam curae maecenas sed integer cras

A close-up of the 'STORE' menu. The menu items are: 'Open Developer Account...', 'Reserve App Name...', 'Acquire Developer License...' (highlighted), 'Edit App Manifest', 'Associate App with the Store...', 'Capture Screenshots...', 'Create App Packages...', and 'Upload App Packages...'. The menu is titled 'STORE TEST WINDOW HELP'.

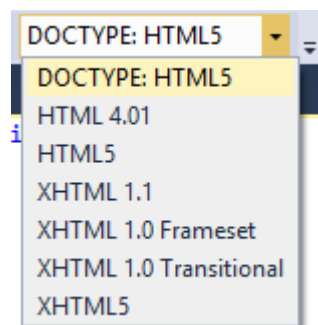
STORE TEST WINDOW HELP

- Open Developer Account...
- Reserve App Name...
- Acquire Developer License...
- Edit App Manifest
- Associate App with the Store...
- Capture Screenshots...
- Create App Packages...
- Upload App Packages...

Chapter 3: Web Development – ASP.NET, HTML5, CSS, and JavaScript



```
83 <!-- Visual Studio Browser Link -->
84 <script type="application/json" id="__browserLink_initializationData">
85   {"appName":"InternetExplorer","requestId":"4940829c4d194b9094a840a9585baa32"}
86 </script>
87 <script type="text/javascript"
88   src="http://localhost:1242/ad1436d90c7c447bb804f72159c98525/browserLink"
89   async="async"></script>
90 <!-- End Browser Link -->
```



```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html lang="en">
<head runat="server">
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title><%: Page.Title %> - My ASP.NET Application</title>
```



```
<head runat="server">
  <meta charset="utf-8" />
  <meta
  <title
```

Validation (HTML 4.01): Attribute 'charset' is not a valid attribute of element 'meta'.

100 %

Design | Split | Source

Error List

0 Errors | 6 Warnings | 0 Messages

```
<asp:LoginView runat="server" ViewStateMode="Disabled">
  <AnonymousTemplate>
    <ul class="nav nav-pills nav-stacked pull-right">
      <li class="navbar-text"><a id="registerLink"
      <li class="navbar-text"><a id="loginLink" ru
    </ul>
```

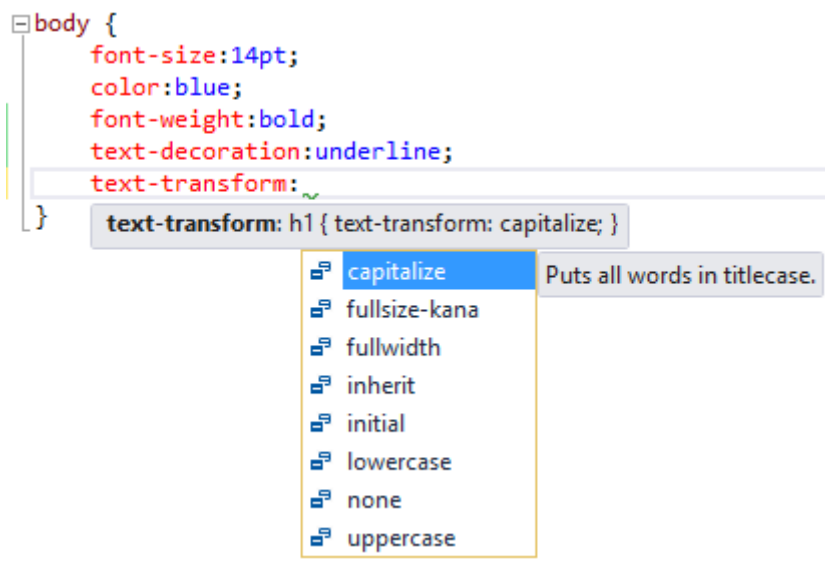
```
<asp:LoginView runat="serv
```

LoginView Tasks

- Format Element
- Edit RoleGroups...
- Administer Website

```
html {
  background-color: #ffffff;
}
```

Color palette: white, black, gray, red, orange, yellow, light green, green, cyan, blue.



```
body {
  font-size: 14pt;
  color: blue;
  font-weight: bold;
  text-decoration: underline;
  text-transform: uppercase;
}
```

```
ul {
  color: orangered;
  font-weight: 200;
}
```

```
ul li {
  color: green;
}
```

```
ul li a {
  color: yellowgreen;
}
```

```
body {
  font-size: 14pt;
  color: blue;
  font-weight: bold;
  text-decoration: underline;
  text-transform: uppercase;
}
```

```
ul {
  color: orangered;
  font-weight: 200;
}
```

```
ul li {
  color: green;
}
```

```
ul li a {
  color: black;
}
```

```
ul li a:hover {
  color: yellowgreen;
}
```

```
/* #region List */  
ul {  
  color: orangered;  
  font-weight: 200;  
}  
  
ul li {  
  color: green;  
}  
  
ul li a {  
  color: black;  
}  
ul li a:hover {  
  color: yellowgreen;  
}  
/* #endregion */
```

List

marquee.js* [X]

\$.
acceptData
access
active
ajax
ajaxPrefilter
ajaxSettings
ajaxSetup
ajaxTransport
Animation

```
};  
function go(...);  
that.css(marqueeCss);  
width--;  
go();
```

\$('.p').ma
cript>
ontent>

animate
animated
domManip
image
map
marquee

marquee()

```

</div>
<script src="/Scripts/marquee.js"></script>
<script>
    $('p').marquee();
</script>
</asp:Content>

```

localhost:1187 - F12 Developer Tools

Network

SUMMARY DETAILS

URL	Protocol	Method	Result	Type	Received	Taken	Initiator	Timings
http://localhost:1187/	HTTP	GET	200	text/html	6.96 KB	79 ms	refresh	
/Scripts/modernizr-2.6.2.js	HTTP	GET	304	application/javascript	333 B	32 ms	<script>	
/Content/bootstrap.css	HTTP	GET	200	text/css	124.63 KB	47 ms	<link rel="styles..."	
/Content/Site.css	HTTP	GET	304	text/css	300 B	32 ms	<link rel="styles..."	
/Content/bootstrap-responsive.css	HTTP	GET	200	text/css	21.97 KB	78 ms	<link rel="styles..."	
/Scripts/WebForms/MsAjax/MicrosoftAjax.js	HTTP	GET	304	application/javascript	349 B	31 ms	<script>	
/Scripts/WebForms/MsAjax/MicrosoftAjax.js	HTTP	GET	304	application/javascript	361 B	78 ms	<script>	
/bundles/MsAjax.js?v=51bCjDaiU4Te_...5...	HTTP	GET	304	text/javascript	368 B	78 ms	<script>	
/Scripts/jquery-1.8.2.js	HTTP	GET	304	application/javascript	330 B	78 ms	<script>	
/Scripts/bootstrap.js	HTTP	GET	304	application/javascript	325 B	156 ms	<script>	
/Scripts/WebForms/WebForms.js	HTTP	GET	304	application/javascript	333 B	156 ms	<script>	
/Scripts/WebForms/WebUIValidation.js	HTTP	GET	304	application/javascript	345 B	453 ms	<script>	
/Scripts/WebForms/MenuStandards.js	HTTP	GET	304	application/javascript	341 B	250 ms	<script>	
/Scripts/WebForms/GridView.js	HTTP	GET	304	application/javascript	332 B	437 ms	<script>	
/Scripts/WebForms/DetailsView.js	HTTP	GET	304	application/javascript	336 B	328 ms	<script>	
/Scripts/WebForms/TreeView.js	HTTP	GET	304	application/javascript	332 B	453 ms	<script>	
/Scripts/WebForms/WebParts.js	HTTP	GET	304	application/javascript	333 B	453 ms	<script>	
/Scripts/WebForms/Focus.js	HTTP	GET	304	application/javascript	328 B	453 ms	<script>	
/bundles/WebForms.js?v=5JltzM7KDneUw...5...	HTTP	GET	304	text/javascript	371 B	453 ms	<script>	
/fb7864ec2d994f4c99cea5c5e73b06c6/br...	HTTP	GET	200	text/javascript	131.56 KB	453 ms	<script>	
/fb7864ec2d994f4c99cea5c5e73b06c6/ar...	HTTP	GET	200	application/json	0.78 KB	15 ms	XMLHttpRequest	
/img/glyphicons-halflings.png	HTTP	GET	304	image/png	320 B	< 1 ms	background-image	
/__browserLink/requestData/028282019e...	HTTP	GET	200	text/html	3.19 KB	< 1 ms	XMLHttpRequest	

Items: 23 Sent: 10.22 KB (10,467 bytes) Received: 294.69 KB (301,759 bytes)

```

<asp:PlaceHolder runat="server">
    <%: Scripts.Render("~/bundles/modernizr") %>
</asp:PlaceHolder>

```

- ▶ Account
- ▶ App_Data
- ▶ App_Start **bundles?**
- ▶ Content
- ▶ img
- ▶ Models
- ▶ Scripts

```

</form>
<%: Scripts.Render("~/bundles/customjs") %>
</body>

```

```

void Application_Start(object sender, EventArgs e)
{
    // Code that runs on application startup
    BundleConfig.RegisterBundles(BundleTable.Bundles);
    RouteConfig.RegisterRoutes(RouteTable.Routes);
    BundleTable.EnableOptimizations = true;
}

```

F12 About - F12 Developer Tools

Network

SUMMARY DETAILS

URL	Protocol	Method	Result	Type	Received	Taken
/ browserLink/requestData/fa4a94c5379...	HTTP	GET	200	text/html	2.61 KB	125 ms
/bundles/customjs?v=UYZo4IP1rS_CXO1k...	HTTP	GET	304	text/javascript	365 B	< 1 ms
/bundles/modernizr?v=qVODBytEBVVePTN...	HTTP	GET	304	text/javascript	371 B	< 1 ms
/bundles/MsAjaxJs?v=S1lbCjDaiuI4Te_--5...	HTTP	GET	304	text/javascript	368 B	< 1 ms
/bundles/WebFormsJs?v=5JltzM7KDneUw...	HTTP	GET	304	text/javascript	371 B	< 1 ms
/Content/css?v=49VAxqKVrcyECzp4fJPh1...	HTTP	GET	304	text/css	357 B	< 1 ms
/fb7864ec2d994f4c99cea5c5e73b06c6/ar...	HTTP	POST	200		148 B	< 1 ms
/fb7864ec2d994f4c99cea5c5e73b06c6/ar...	HTTP	GET	200	application/json	0.78 KB	62 ms

F12 About - F12 Developer Tools

Debugger

About customjs

```

t='<span style="display:none">'+$(this).text()+"\</span>",n;return $("body").append(t),
.width(),$("body").find("span:last").remove(),n),$.fn.marquee=function(){function u(i)
indent",t+"px"),t--,setTimeout(u,10)}var n=$(this),i=n.textwidth(),r=i,t=r,e=
indent"),overflow:n.css("overflow"),"white-space":n.css("white-space")),f={"text-indent":t,
e":"nowrap"};n.css(f),t--,u()}

```

Files: bootstrap.js, browserLink, customjs, DetailsView.js, Focus.js

About - F12 Developer Tools

Debugger

Search: marquee

```

1 $.fn.textwidth=function(){var t='<span style="display:none">'+$(this)
.text()+"\</span>",n;return $("body").append(t),n=$(("body").find
("span:last").width(),$("body").find("span:last").remove(),n),
$.fn.marquee=function(){function u(i){t=i*-1&&(t=r),n.css("text-indent",t
+"px"),t--,setTimeout(u,10)}var n=$(this),i=n.textwidth(),r=i,t=r,e=

```

Watches: Add wa...

Home Page - My ASP.NET MVC Application - Page Inspector

http://localhost:60977/Home/Index

Home Page. Modify this template to jump-start your ASP.NET MVC application.

To learn more about ASP.NET MVC visit <http://asp.net/mvc>. The page features **videos, tutorials, and samples** to help you get the most from ASP.NET MVC. If you have any questions about ASP.NET MVC visit [our forums](#).

We suggest the following:

Getting Started
 ASP.NET MVC gives you a powerful, patterns-based way to build dynamic websites that enables a clean separation of concerns and that gives you full control over markup for enjoyable, agile development. ASP.NET MVC includes many features that enable fast, TDD-friendly development for creating sophisticated applications that use the latest web standards. [Learn more...](#)

Site.css, _ViewStart.cshtml, Index.cshtml

```

ViewBag.Title = "Home Page";
}
@section featured {
<div class="content-wrapper">
<div class="title">
<h1>@ViewBag.Title.</h1>
<h2>@ViewBag.Message</h2>
</div>
<p>
To learn more about ASP.NET M
<a href="http://asp.net/mvc">
The page features <mark>video
If you have any questions abo
<a href="http://forums.asp.net
</p>
</div>
</section>
<h3>We suggest the following:</h3>
<ol class="round">
<li class="one">
<h5>Getting Started</h5>

```

Find Web Hosting

You can easily find a web hosting company that offers the right mix of features and price for your applications.
[Learn more...](#)

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Inspect HTML Files

```
that offers the right mix of features
and price for your applications.
<a href="http://go.microsoft.com/fwlink/?
LinkId=245157">Learn more...</a>
</li>
</ol>
</section>
</div>
<div>
  <div class="content-wrapper">
    <div class="float-left">
      <p>© 2013 - My ASP.NET MVC Application</p>
    </div>
  </div>
</div>
</footer>
```

Styles Trace Styles Call Stack Attributes

```
▲ inherited
▲ <body> body { site.css
  color: rgb(51, 51, 51)
  font-family: "Segoe UI", Verdana
  font-size: 0.85em
}
▲ <footer> footer { site.css
  font-size: 0.8em
  text-align: center
}
```

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Inspect HTML Files

```
<a href="http://go.microsoft.com/fwlink/?
LinkId=245157">Learn more...</a>
</li>
</ol>
</section>
</div>
<div>
  <div class="content-wrapper">
    <div class="float-left">
      <p>© 2013 - My ASP.NET MVC
Application</p>
    </div>
  </div>
```

Styles Trace Styles Call Stack Attributes Layout

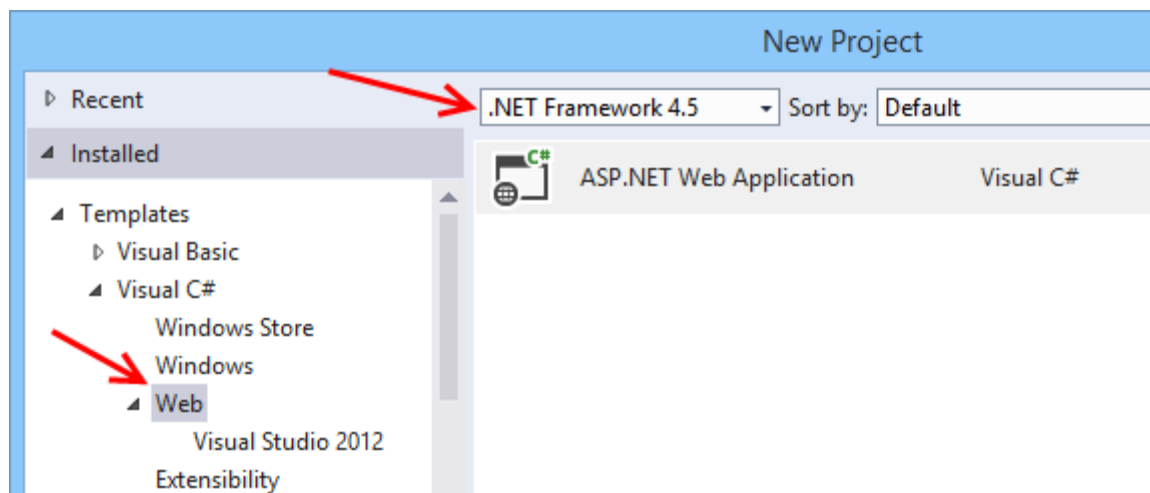
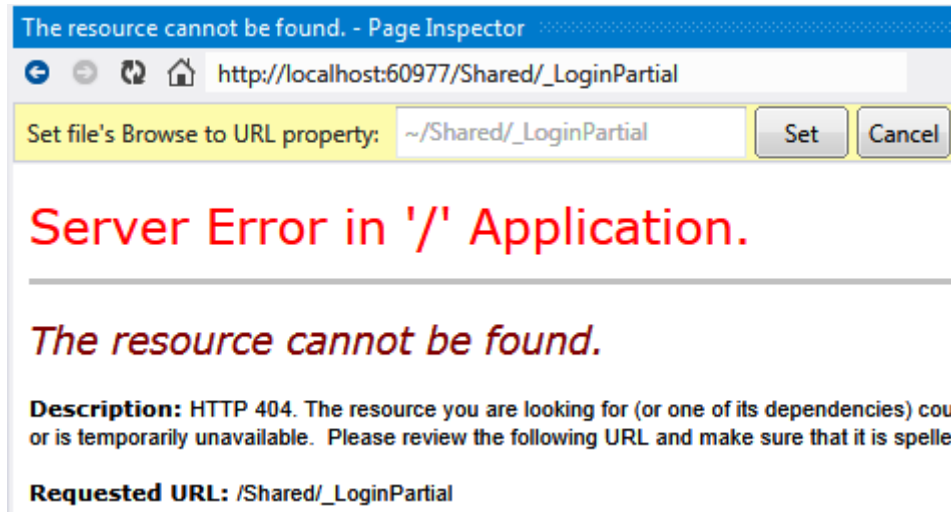
```
color: rgb(51, 51, 51)
font-family: "Segoe UI", Verdana
font-size: 0.8em
margin-bottom: 0px
margin-left: 0px
margin-right: 0px
margin-top: 0px
footer p {
  margin: 0px site.css
```

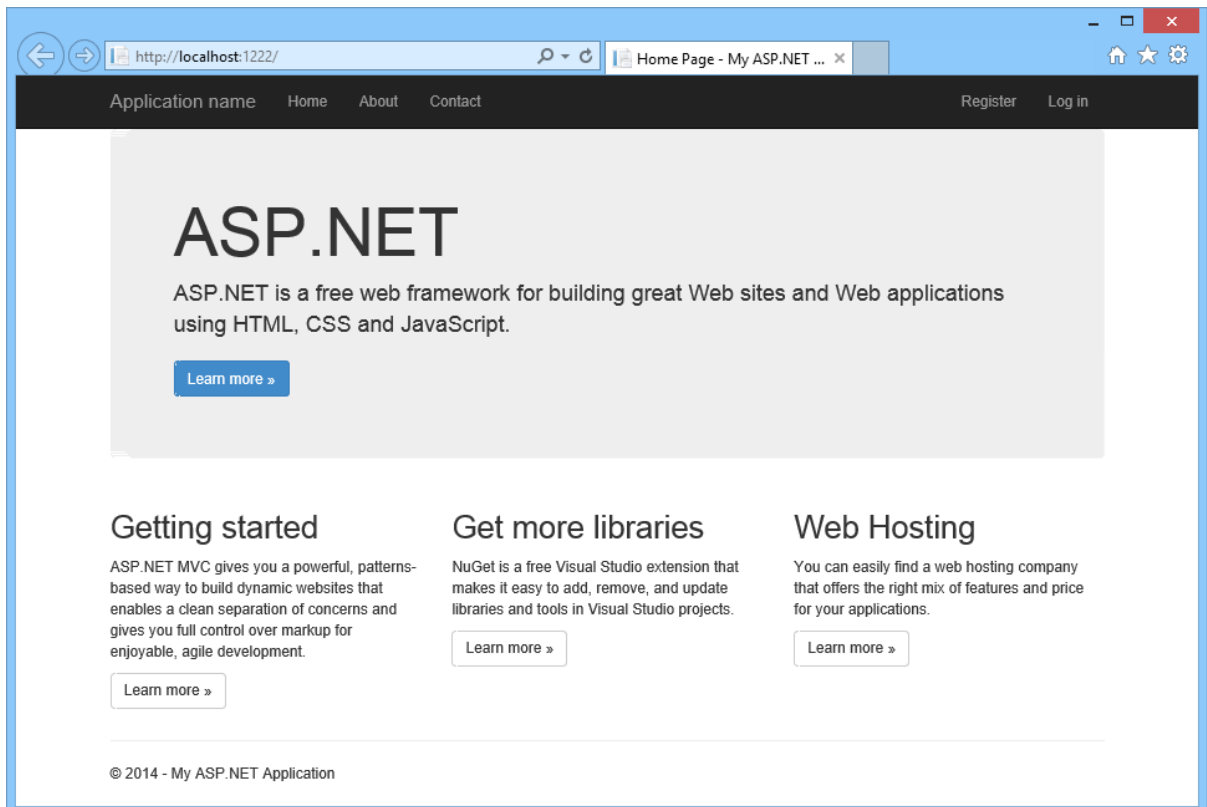
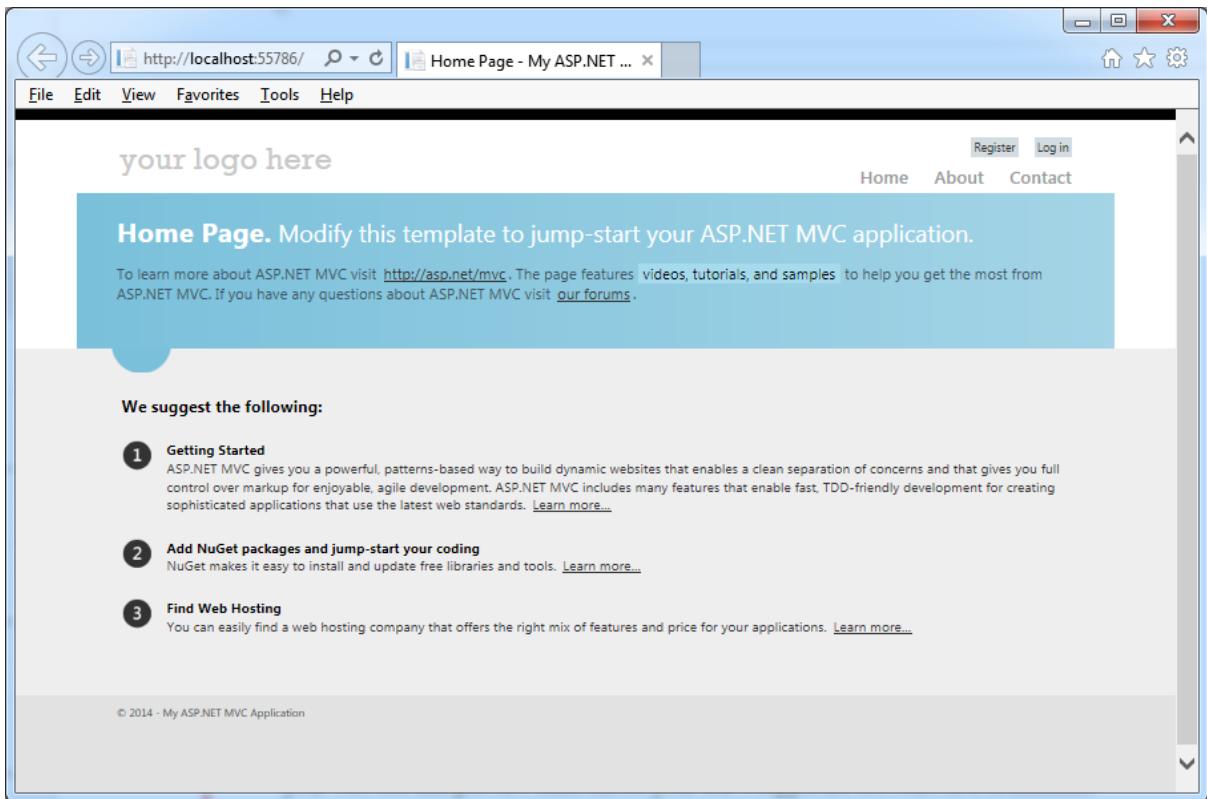
```
/* footer
footer .float-left,
footer .float-right {
  float: none;
}
footer {
  text-align: center;
  height: auto;
  padding: 10px 0;
}
footer p {
  margin: 0;
}
```

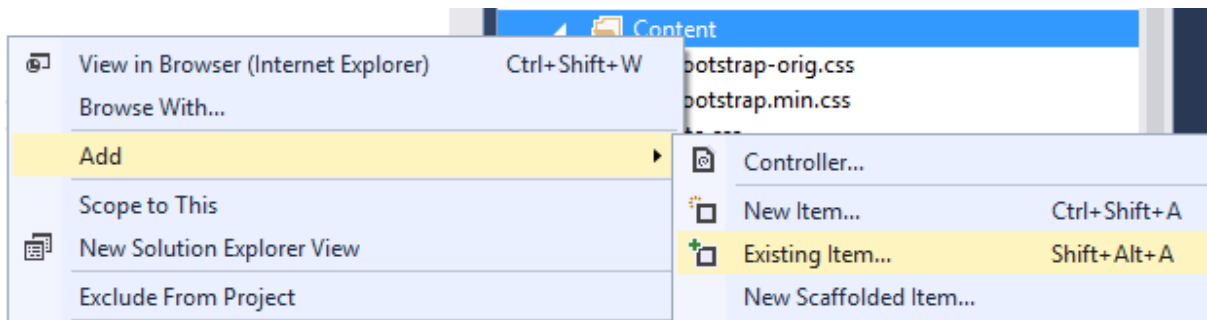
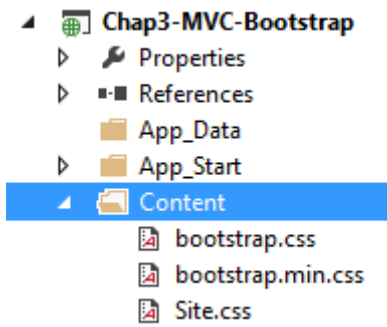
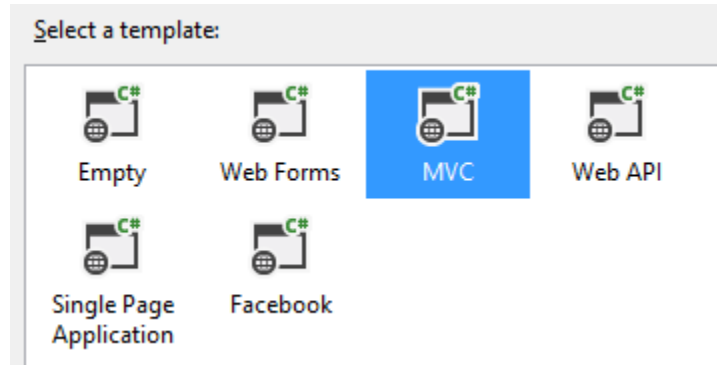
Inspect HTML Files

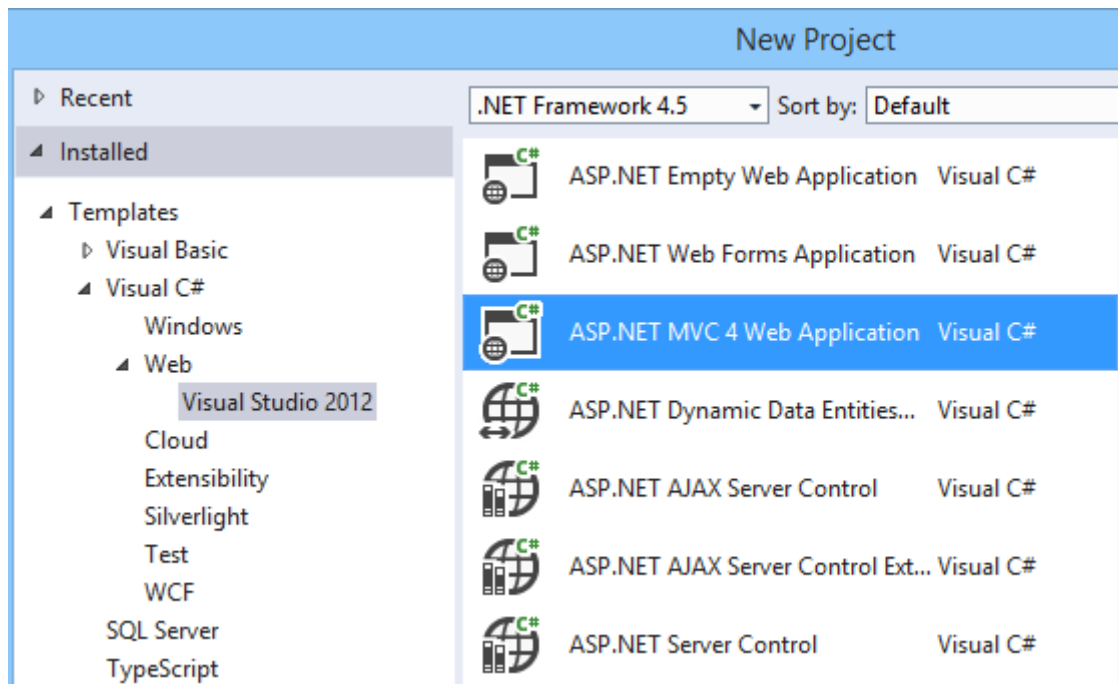
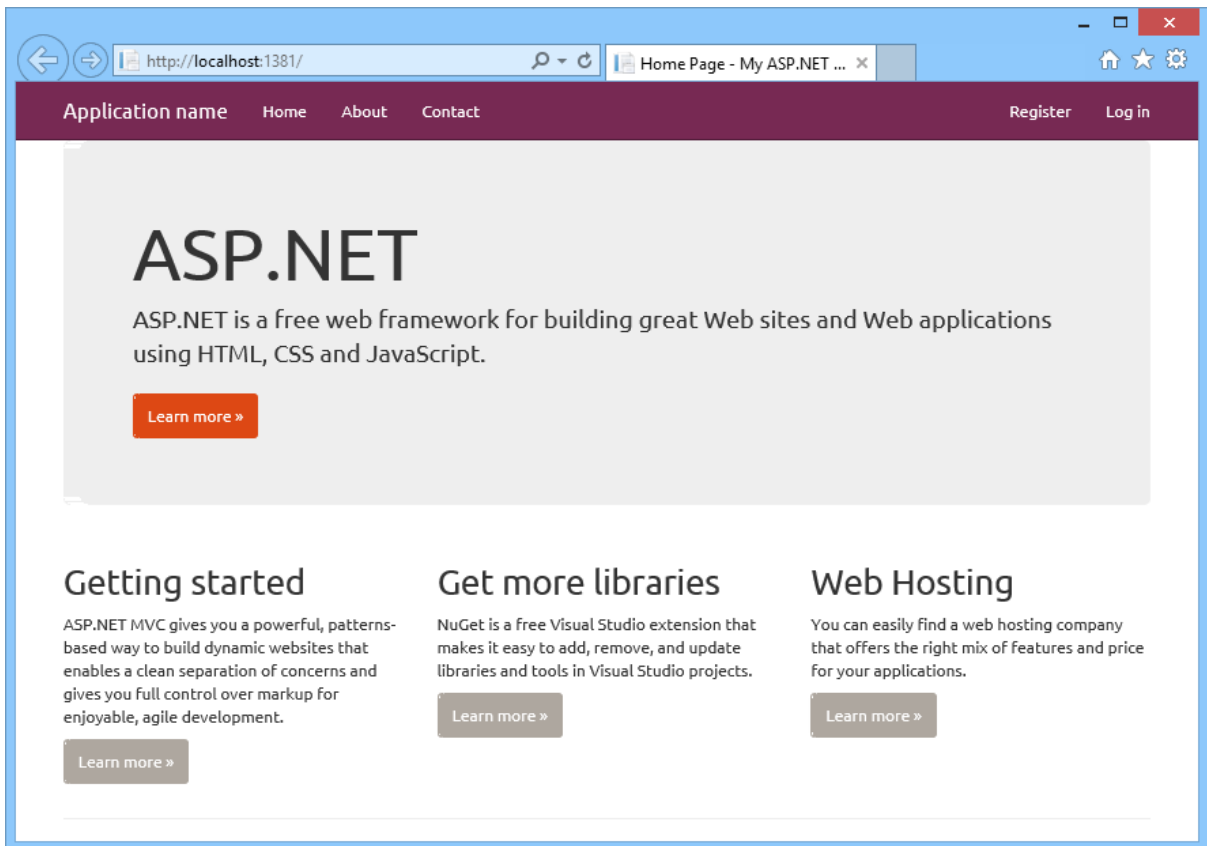
Layout

- ~/Views/Home/Index.cshtml
- ~/Views/Shared/_Layout.cshtml
- ~/Views/Shared/_LoginPartial.cshtml

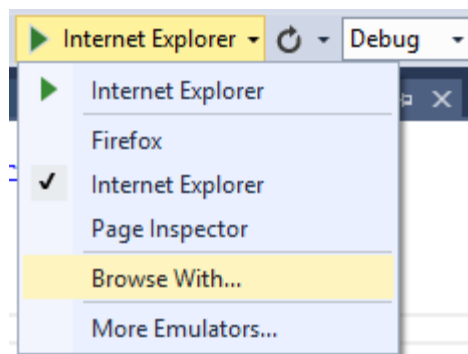
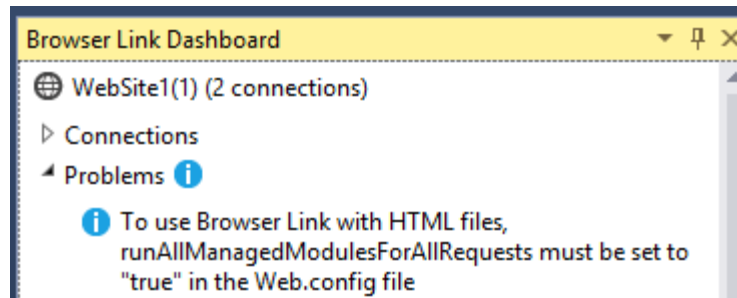


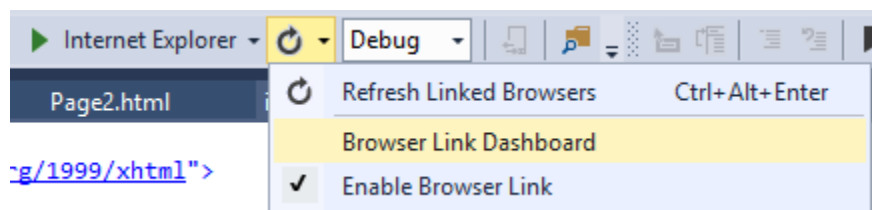
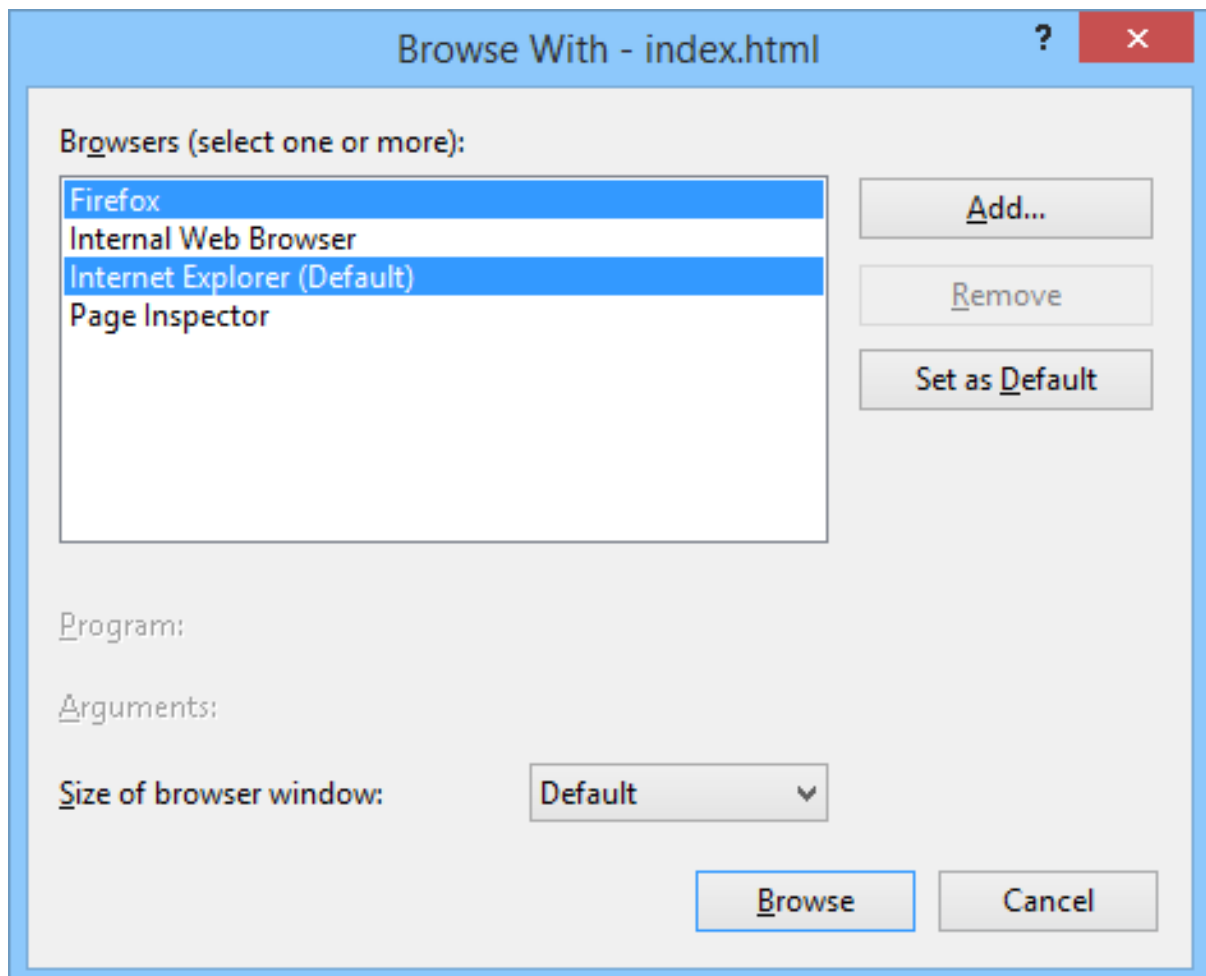




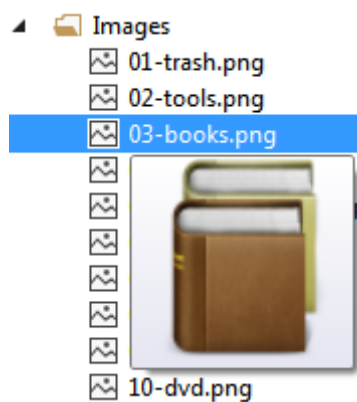
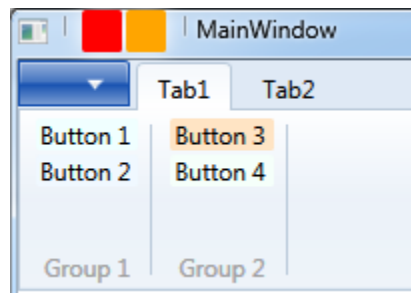


```
<configuration>
  <system.webServer>
    <modules runAllManagedModulesForAllRequests="true" />
  </system.webServer>
  <system.web>...</system.web>
</configuration>
```






Chapter 4: .NET Framework 4.5.1 Development



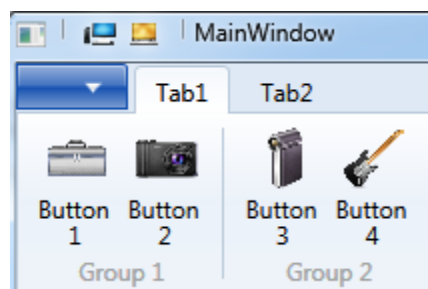
```
1 <RibbonQuickAccessToolBar.Items>
  <RibbonButton SmallImageSource="" />
  <RibbonButton Background="Orange" />
```

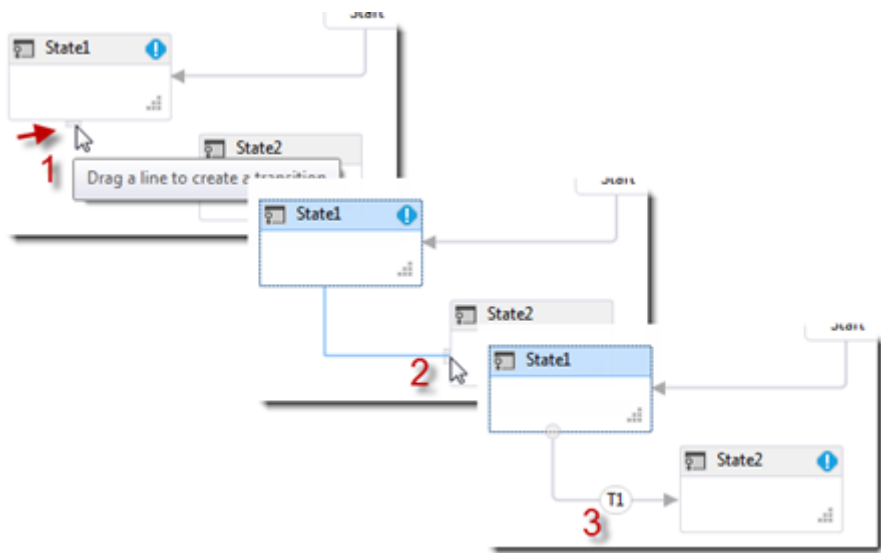
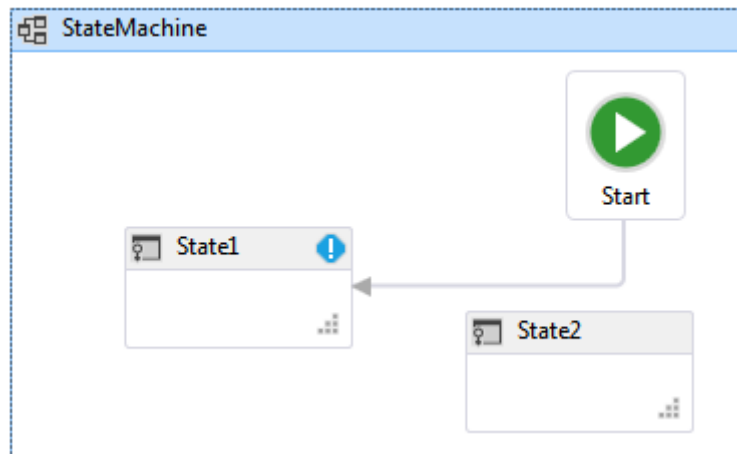
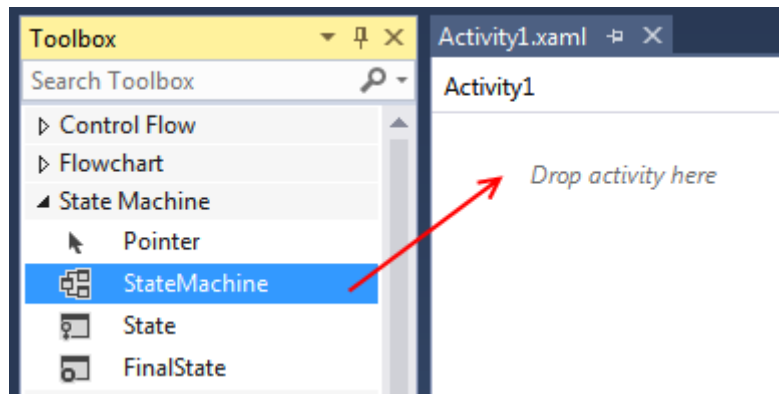
```
2 <RibbonQuickAccessToolBar.Items>
  <RibbonButton SmallImageSource="" />
  <RibbonButton Background="Orange" />
```

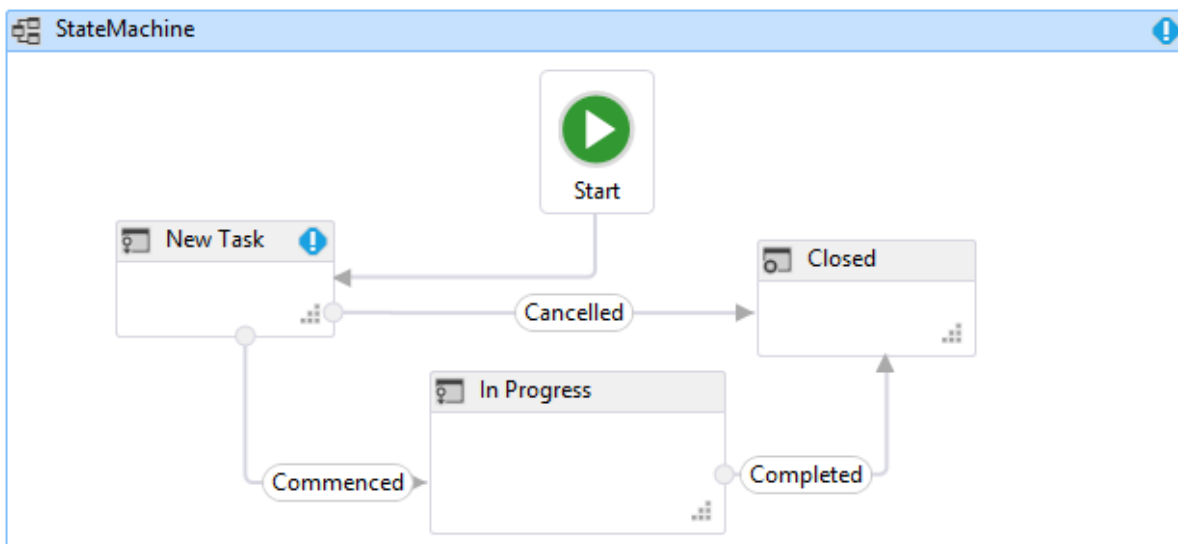
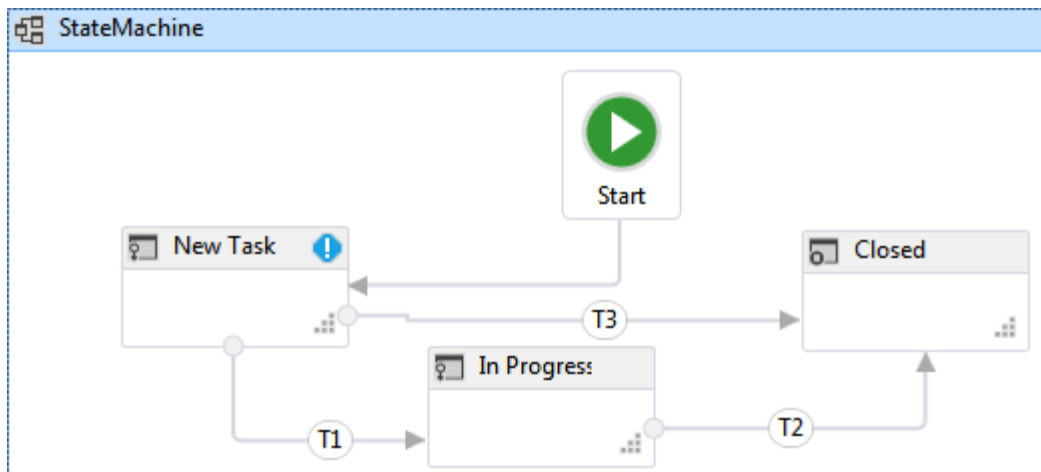
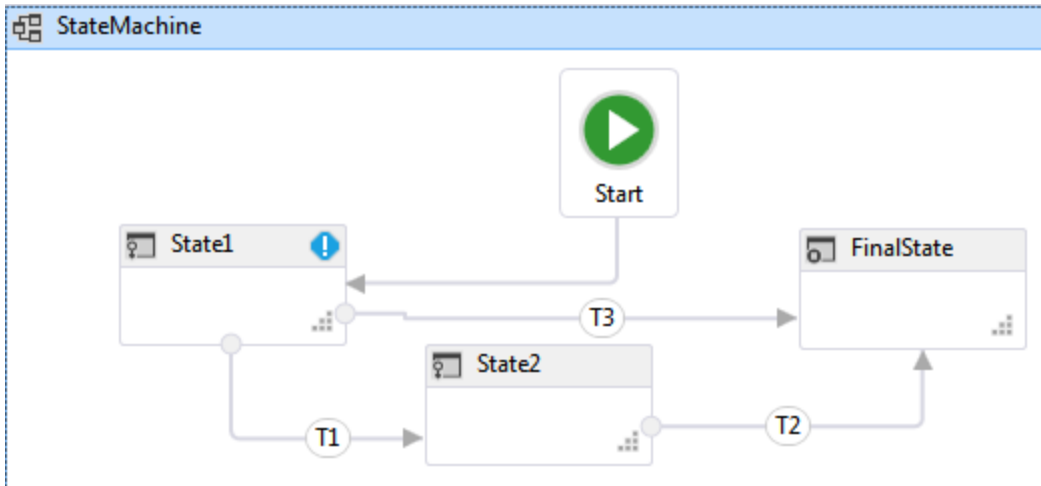


```
3 <RibbonQuickAccessToolBar.Items>
  <RibbonButton SmallImageSource="c:\users\jeff\documents\visual studio 2013" />
  <RibbonButton Background="Orange" />
```

```
4 <RibbonQuickAccessToolBar.Items>
  <RibbonButton SmallImageSource="Images\08-desktop.png" />
  <RibbonButton Background="Orange" />
```







Variables Arguments Imports

Output

Show output from: Debug

Name	Direction	Argument type	Default value
argument1	In	Boolean	<i>Enter a VB expression</i>

Create Argument

Commenced

Source: New Task

Trigger

Drop Trigger activity here

Commenced

Condition

argument1 = True

Action

Hand icon 100%

Add Service Reference

To see a list of available services on a specific server, enter a service URL and click Go. To browse for available services, click Discover.

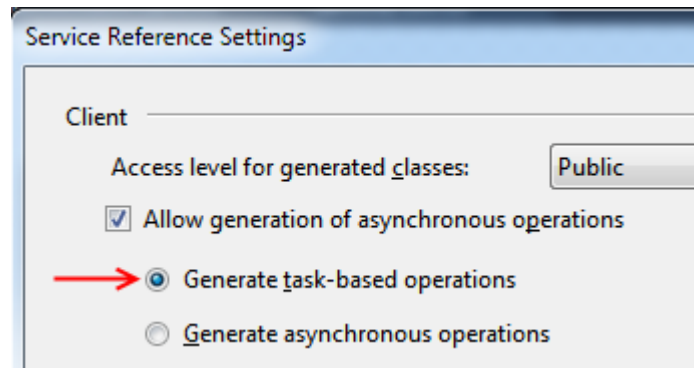
Address:

http://localhost:63980/Service1.svc

Go Discover

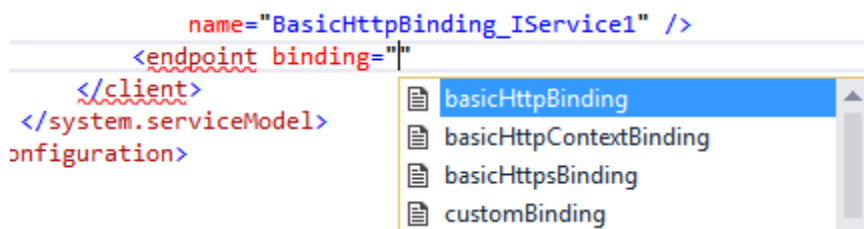
Services: Operations:

Service1.svc

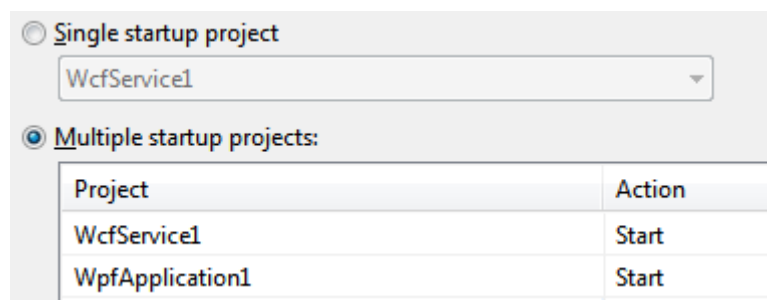


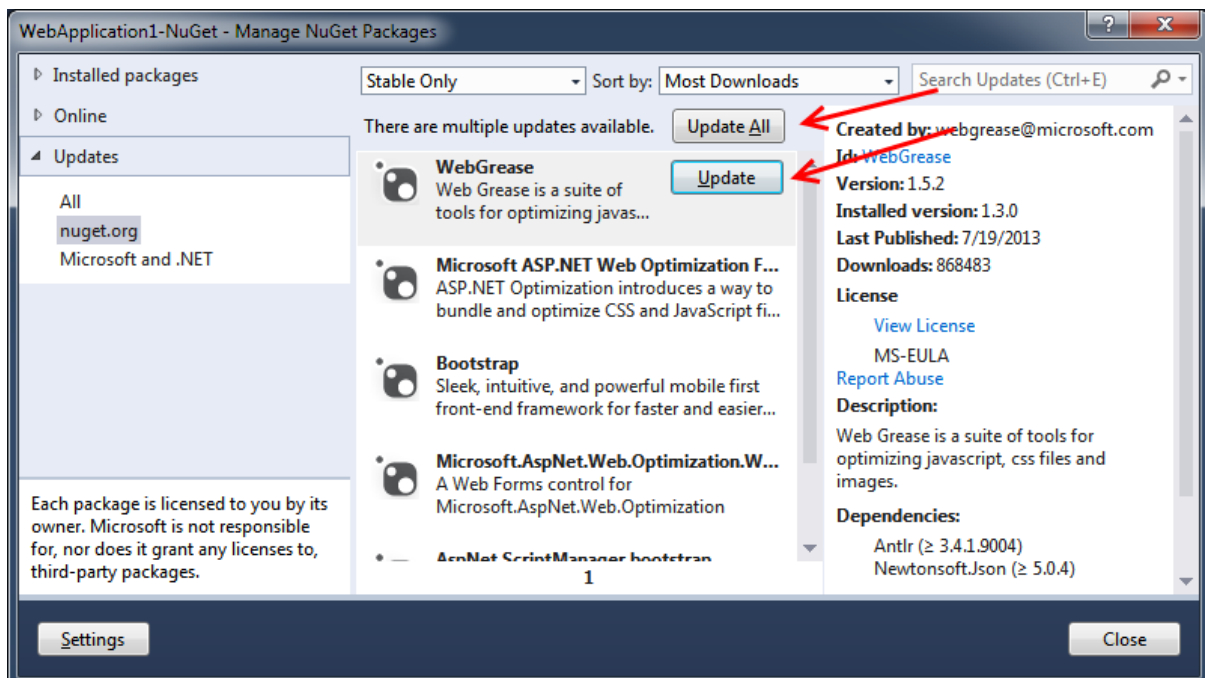
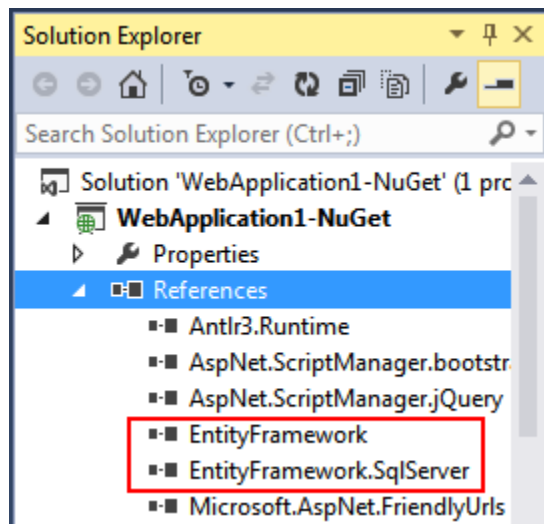
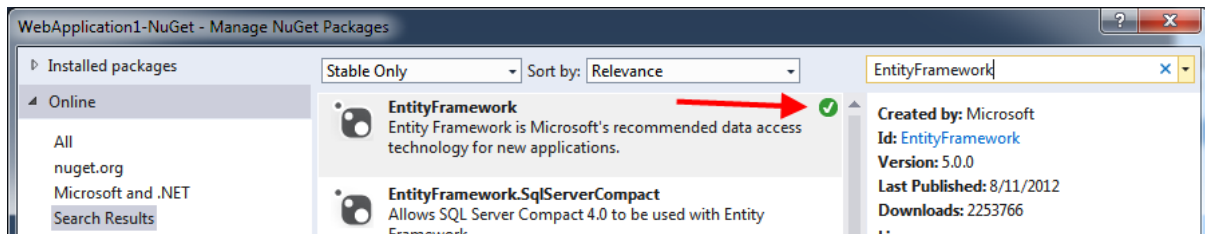
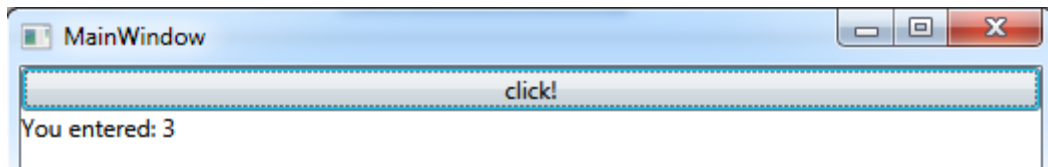
```
<endpoint address="http://localhost:63980/Service1.svc" binding="basicHttpB
bindingConfiguration="BasicHttpBinding IService1" contract="ServiceRefe
name="BasicHttpBinding IService1" />
```

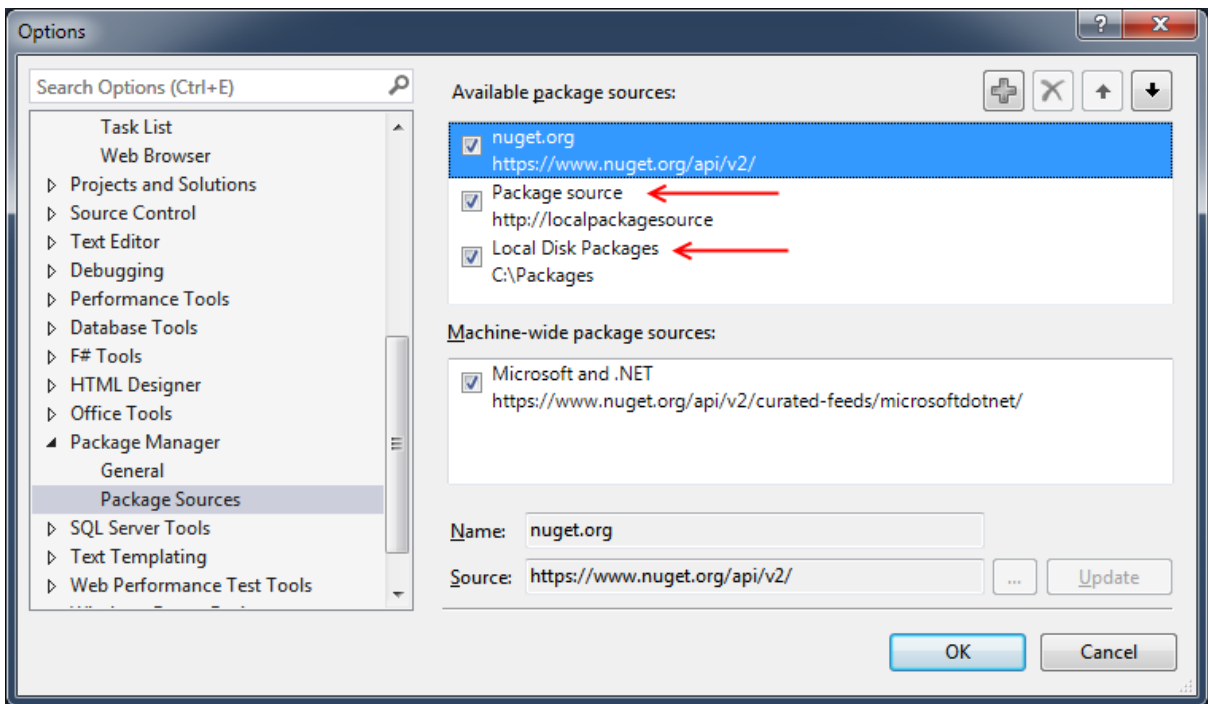
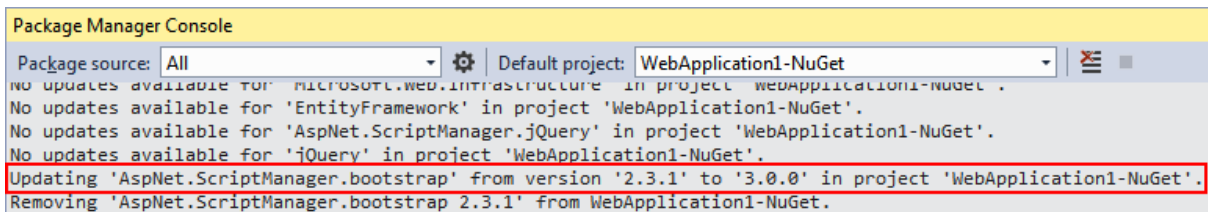
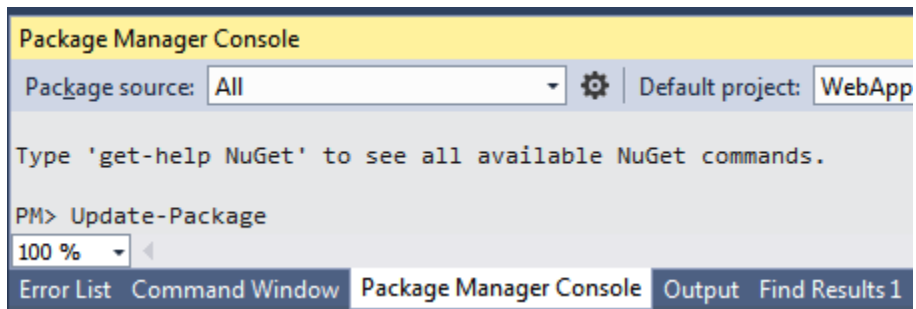
Optional string attribute. This attribute uniquely identifies an endpoint for a given contract.

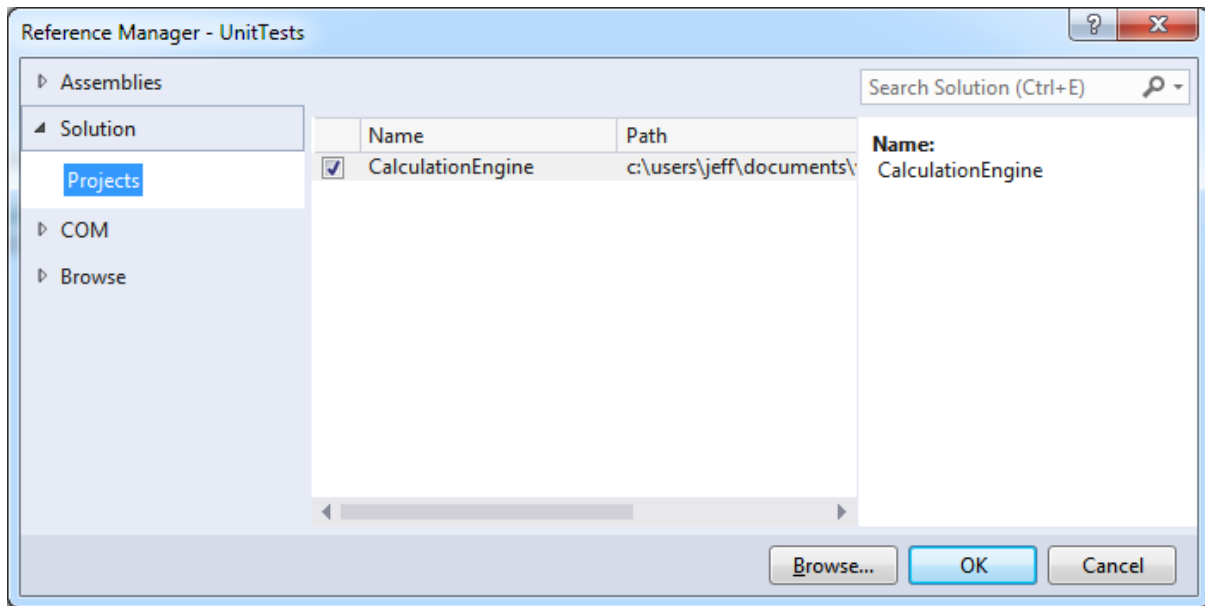


```
<client>
  <endpoint address="http://localhost:63980/Service1.svc" bindin
    bindingConfiguration="BasicHttpBinding IService1" contract
    name="BasicHttpBinding IService1" />
  <endpoint binding="basicHttpBinding"
    bindingConfiguration="BasicHttpBinding IService1"/>
</client>
```










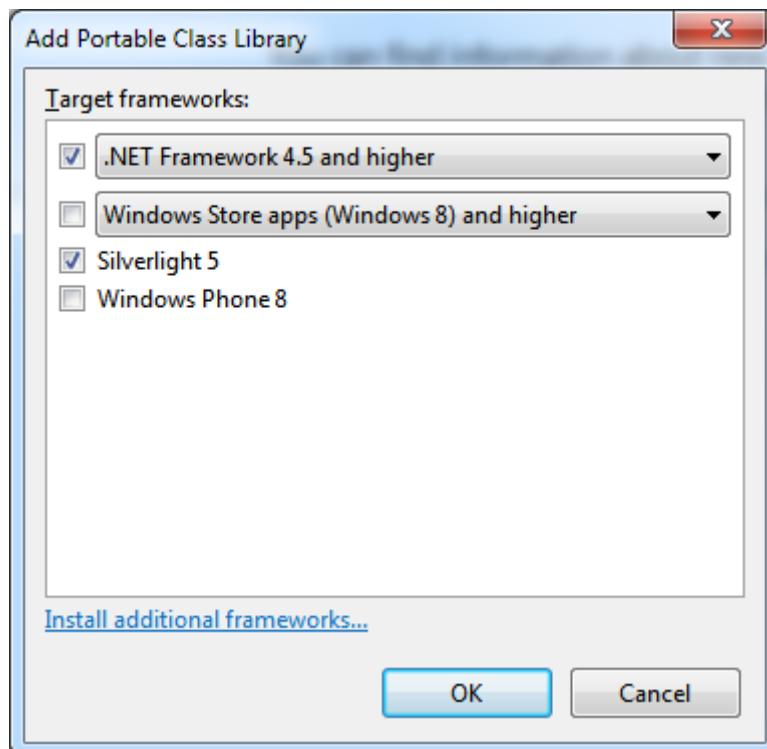
Adding_1_and_2_should_give_3

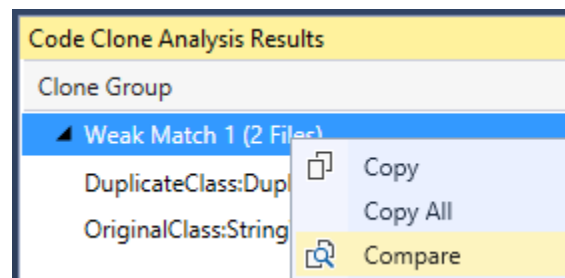
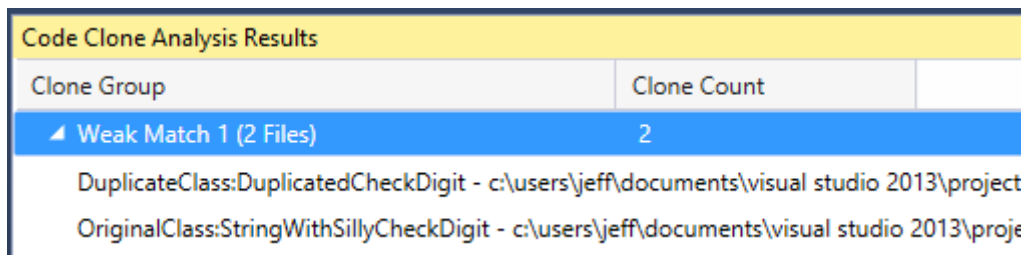
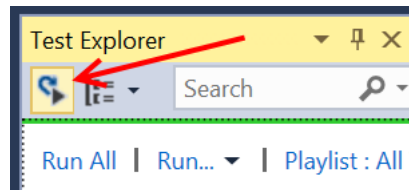
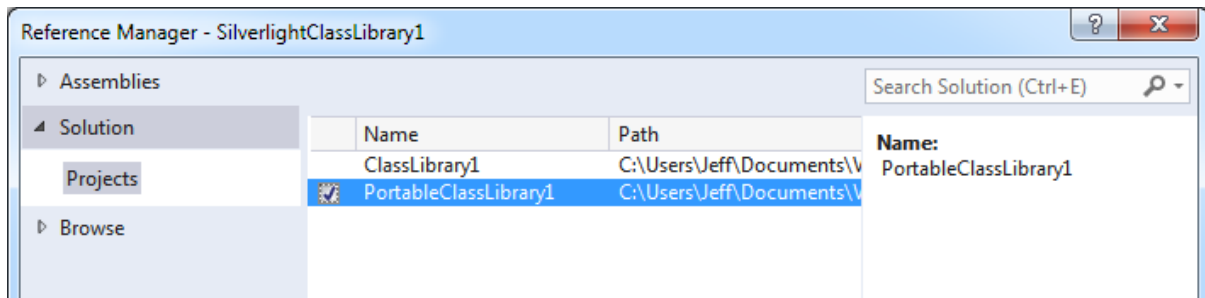
Source: [CalculatorOperations.cs](#) line 15

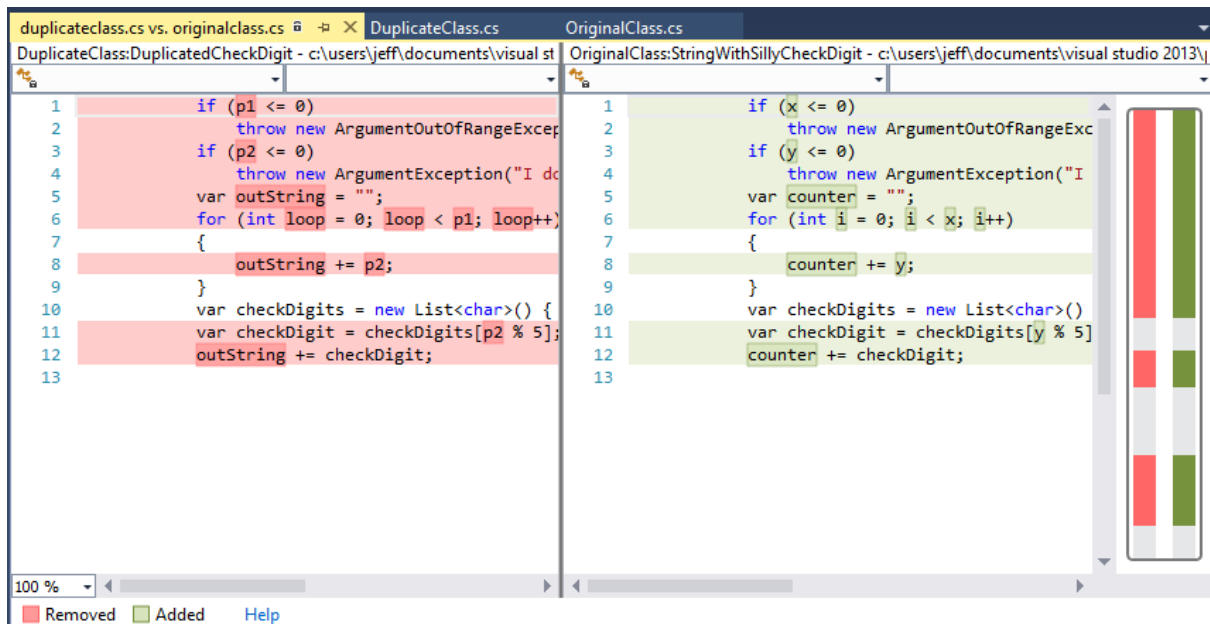
 Test Failed - Adding_1_and_2_should_give_3

**Message: System.NotImplementedException :
The method or operation is not implemented.**

Elapsed time: 39 ms







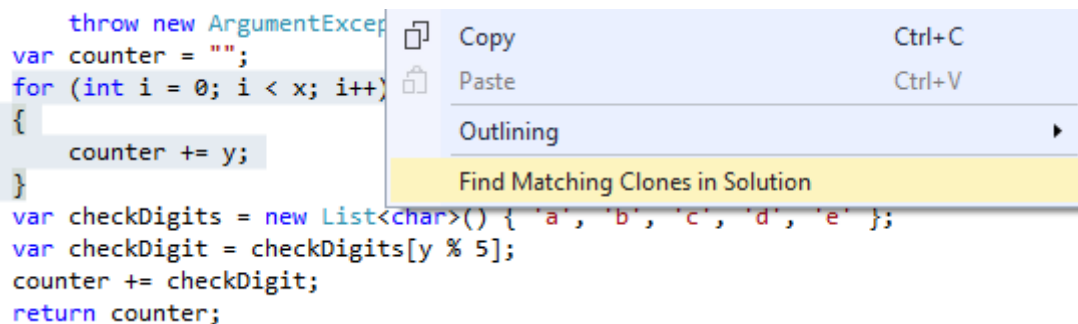
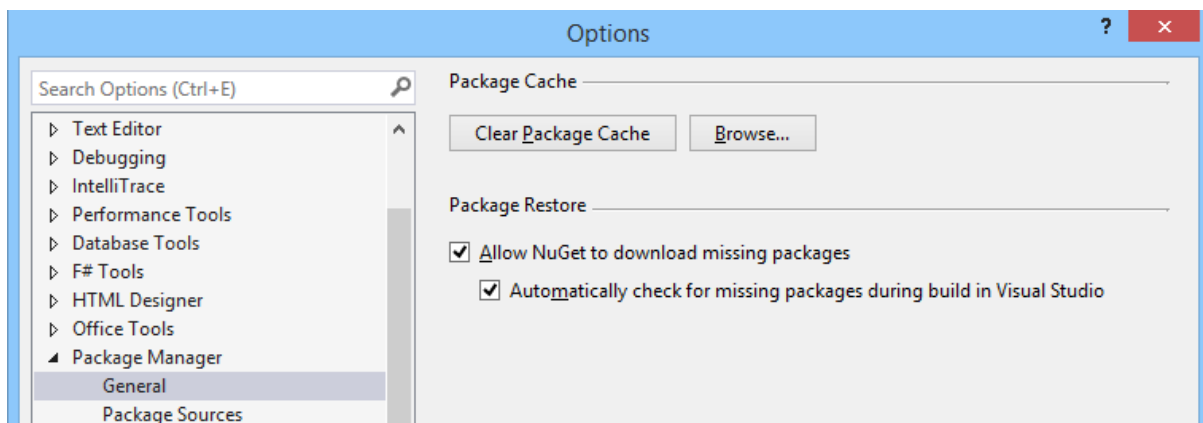
Activity1 > StateMachine > In Progress > T3



↔ T3

Source: In Progress

○ Trigger



```

67%  fx  [Grid]  [Ribbon]  [XAML]
Design  ↑↓  XAML
<RibbonWindow x:Class="WpfR
  xmlns="http://schem
  xmlns:x="http://sch
  Title="MainWindow"
  <Grid>
  </Grid>
</RibbonWindow>

```

```

using System.Windows.Controls.Ribbon;

namespace WpfRibbon
{
    /// <summary> ...
    public partial class MainWindow : RibbonWindow...
}

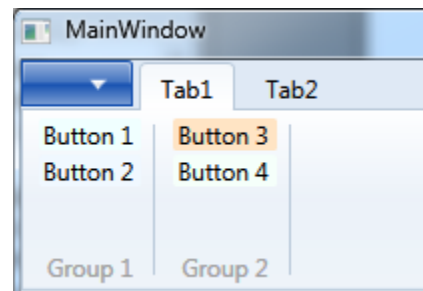
```

The design view shows a window titled 'MainWindow' with a ribbon at the top. A red arrow points from the ribbon area in the design view to the XAML code in the code editor below.

```

79%  fx  [Grid]  [Ribbon]  [XAML]
Design  ↑↓  XAML
<RibbonWindow x:Class="WpfRibbon.MainWindow"
  xmlns="http://schemas.microsoft.com/w
  xmlns:x="http://schemas.microsoft.com
  Title="MainWindow" Height="350" Width
  <Grid>
  <Ribbon></Ribbon>
  </Grid>
</RibbonWindow>

```



Chapter 5: Debugging Your .NET Application

```
14 | var charCode = 97;
15 | var outputBuilder = new StringBuilder();
    |
    |
18 | outputBuilder.Append((char)charCode);
```

At Program.cs, line 15 character 13 ('ConsoleApplication1.Program.Main(string[] args)', line 5)

The breakpoint will not currently be hit. No symbols have been loaded for this document.

Modules						
Name	Path	Optimized	User Code	Symbol Status	Symbol File	
mscorlib.dll	C:\Windows\Microsoft.Net\asse...	Yes	No	Skipped loading symbols.		
consoleApplic...	c:\temp\consoleApplication1.exe	No	No	Cannot find or open the PDB file.		

Add Application

Site name: Default Web Site
Path: /

Alias: VS2013 Application pool: DefaultAppPool

Example: sales

```
PS C:\IntelliTraceLogs> Start-WebApplicationMonitoring
cmdlet Start-WebApplicationMonitoring at command pipeline position 1
Supply values for the following parameters:
Name: Default Web Site\VS2013
Mode: Trace
OutputPath: C:\IntelliTraceLogs
Starting monitoring for 'Default Web Site/VS2013' ...
Monitoring started for 'Default Web Site/VS2013'
PS C:\IntelliTraceLogs>
```

IntelliTrace Summary

11/2/2013 14:25

Exception Data

Web Requests

Method	Target URL	Time Taken (ms)	Status	Session	Client IP	User Agent	Start Time	End Time
POST	http://localhost/VS2013/default.aspx	40	500	1	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:52...	10/29/2013 11:19:52...
POST	http://localhost/VS2013/	44	200	0	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:52...	10/29/2013 11:19:52...
POST	http://localhost/VS2013/default.aspx	49	200	1	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:51...	10/29/2013 11:19:51...
POST	http://localhost/VS2013/	54	200	0	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:51...	10/29/2013 11:19:51...
POST	http://localhost/VS2013/default.aspx	53	200	1	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:49...	10/29/2013 11:19:49...
POST	http://localhost/VS2013/	56	200	0	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:49...	10/29/2013 11:19:49...
POST	http://localhost/VS2013/default.aspx	54	200	1	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:47...	10/29/2013 11:19:47...
POST	http://localhost/VS2013/	57	200	0	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:47...	10/29/2013 11:19:47...
POST	http://localhost/VS2013/default.aspx	55	200	1	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:45...	10/29/2013 11:19:45...
POST	http://localhost/VS2013/	58	200	0	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:45...	10/29/2013 11:19:45...
GET	http://localhost/VS2013/default.aspx	21	200	1	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:44...	10/29/2013 11:19:44...
GET	http://localhost/VS2013/	41	200	0	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:44...	10/29/2013 11:19:44...
POST	http://localhost/VS2013/default.aspx	41	500	1	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:40...	10/29/2013 11:19:40...
POST	http://localhost/VS2013/	44	200	0	::1	Mozilla/5.0 (Windows N...	10/29/2013 11:19:40...	10/29/2013 11:19:40...

GET	http://localhost/VS2013/	41	200	0
POST	http://localhost/VS2013/default.aspx	41	500	1
POST	http://localhost/VS2013/	44	200	0

Request Details



http://localhost/VS2013/default.aspx

Details:

Time Taken: 41 Method: POST
Client IP: ::1 Id: 1
Target URL: http://localhost/VS2013/default.aspx User Agent: Mozilla/5.0 (Windows NT 6.3; WOW64; Trident/7.0; rv:11.0) like Gecko
Status: 500 End Time: 10/29/2013 11:19:40 PM

Request Events:

All Categories
Search
ASP.NET: Page Post Back "/VS2013/"
Gesture: Clicked "Click Me" (Button)
Exception: Thrown: "No clicky for you!" (System.ApplicationException) A System.ApplicationException was thrown: "No clicky for you!" Time: 10/29/2013 11:19:40 PM Thread: [2784]
Exception: Caught: "No clicky for you!" (System.ApplicationException)
Exception: Thrown: "null" (System.Web.HttpUnhandledException)

Debug This Event

```

Protected Sub ClickMe_Click(sender As Object, e As EventArgs)
    Dim second As Integer = DateTime.Now.Second
    If (second Mod 2 = 0) Then
        Throw New ApplicationException("No clicky for you!")
    Else
        ClickMe.Text = "current second: " & second.ToString()
    End If
End Sub
End Class

```

```

var total = 0;
for (int loop = 0; loop < 1000000; loop++)
{
    total += loop;
    total /= i;
}

```

i | 411

ID	Managed ID	Category	Name	Location	Priority
Process ID: 7520 (11 threads)					
0	0	? Unknown Thread	[Thread Destroyed]	<not available>	
10504	0	Worker Thread	<No Name>	<not available>	Normal
0	0	? Unknown Thread	[Thread Destroyed]	<not available>	
12116	7	Worker Thread	vshost.RunParkingWindow	Microsoft.VisualStudio.HostingProcess.Utilities.dll!Microsoft.Visua	Normal
5276	9	Worker Thread	.NET SystemEvents	System.dll!Microsoft.Win32.SystemEvents.WindowThreadProc	Normal
13056	10	Main Thread	Main Thread	ParallelDebugging.exe!ParallelDebugging.Program.SlowMethod	Normal
8020	11	Worker Thread	Worker Thread	mscorlib.dll!System.Threading.ThreadPoolWorkQueue.Dispatch	Normal
12792	12	Worker Thread	Worker Thread	ParallelDebugging.exe!ParallelDebugging.Program.SlowMethod	Normal
11508	13	Worker Thread	Worker Thread	ParallelDebugging.exe!ParallelDebugging.Program.SlowMethod	Normal
7716	14	Worker Thread	<No Name>	<not available>	Normal

[Thread]	i	1000000-loop	<Add Watch>
[13056]	411	726797	
[12792]	50359	580804	
[11508]	75198	207278	

Parallel Wat... Parallel Wat... Call Stack Breakpoints Command... Immediate... Output

Current selection
 Single startup project
 Multiple startup projects:

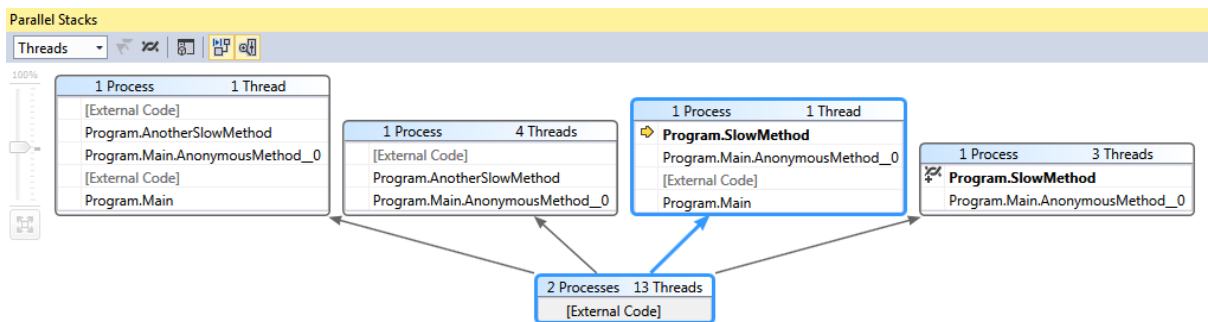
ParallelDebugging

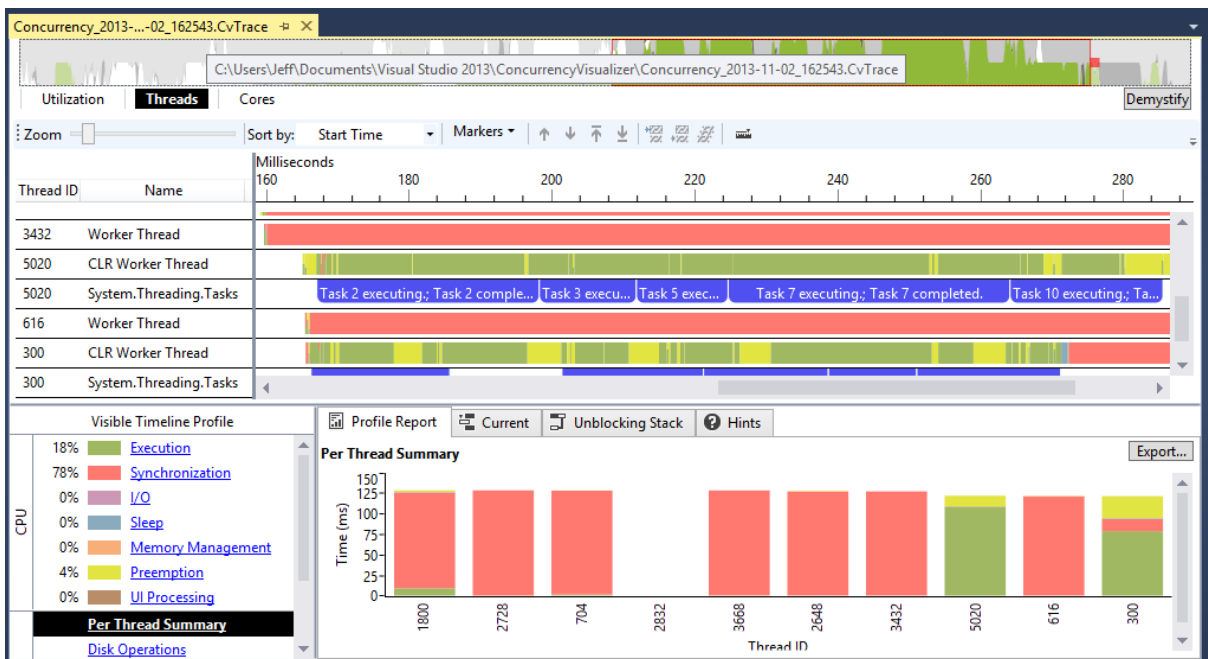
Project	Action
Parallel2	Start
ParallelDebugging	Start

Tasks

Some scheduled tasks might be missing. Try restarting the debug session.

ID	Status	Location	Task
1	Active	Parallel2.Program.AnotherSlowMethod	Main.An
1	Active	ParallelDebugging.Program.SlowMethod	Main.An
2	Active	Parallel2.Program.AnotherSlowMethod	Main.An
3	Active	Parallel2.Program.AnotherSlowMethod	Main.An
4	Active	Parallel2.Program.AnotherSlowMethod	Main.An
5	Active	Parallel2.Program.AnotherSlowMethod	Main.An
2	Active	ParallelDebugging.Program.SlowMethod	Main.An
3	Active	ParallelDebugging.Program.SlowMethod	Main.An
4	Active	ParallelDebugging.Program.SlowMethod	Main.An





Add Concurrency Visualizer Marker Provider

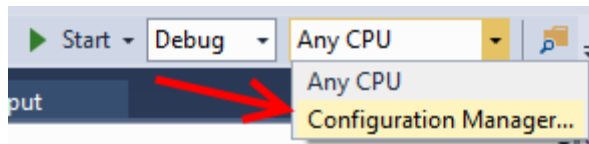
Name:

Provider GUID:
Example: 8D4925AB-505A-483B-A7E0-6F824A07A6F0

Collect only these categories (optional):
Example: 2, 4, 8-11

Collect events with this importance level and greater (optional):"

OK Cancel



Configuration Manager

Active solution configuration: Debug Active solution platform: Any CPU

Project contexts (check the project configurations to build or deploy):

Project	Configuration	Platform	Build
Chapter5-MaxDebug	Debug	Any CPU	<input checked="" type="checkbox"/>

Any CPU <New...> <Edit...>

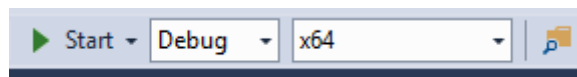
New Project Platform

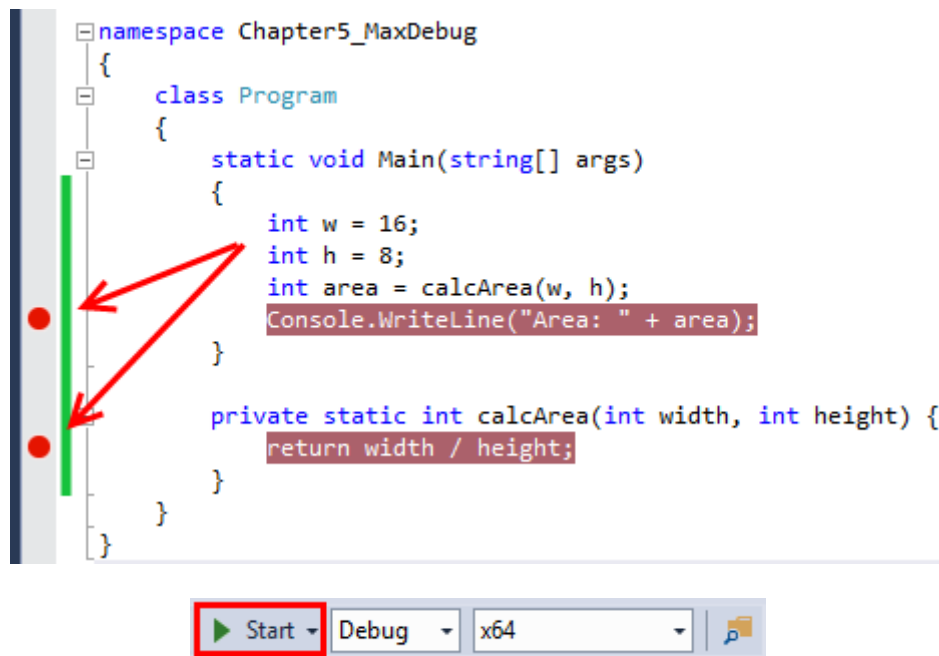
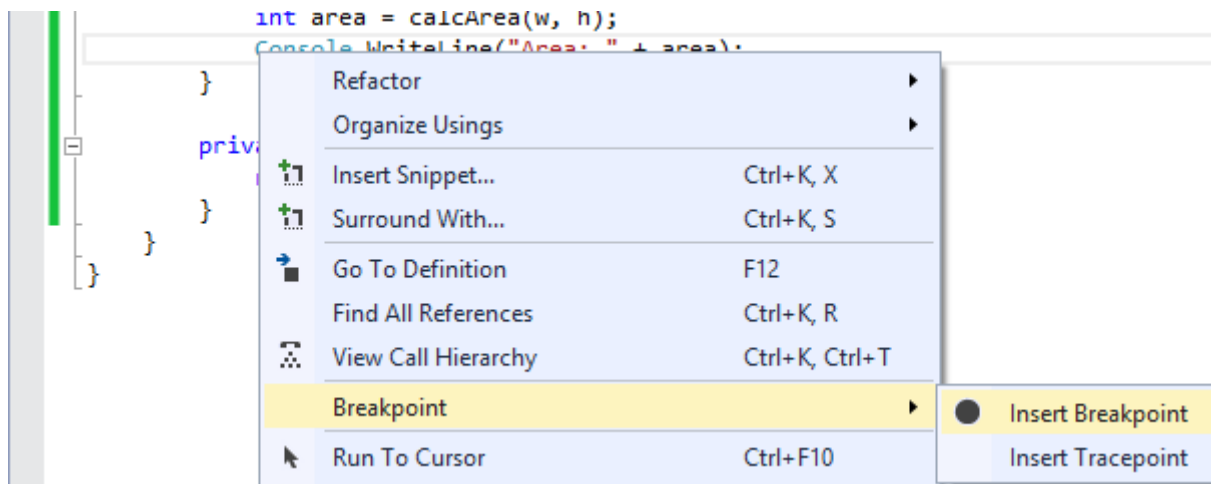
New platform:

- x64
- x64
- x86
- Any CPU

Create new solution platforms

OK Cancel





```
int w = 16;
int h = 8;
int area = calcArea(w, h);
Console.WriteLine("Area: " + area);
}

private static int calcArea(int width, int height) {
return width / height;
}
}
```

100 %

Autos

Name	Value	Type
height	8	int
width	16	int

```
int w = 16;
int h = 8;
int area = calcArea(w, h);
Console.WriteLine("Area: " + area);
}

private static int calcArea(int width, int height) {
return width * height;
}
}
```

100 %

Autos

Name	Value	Type
Chapter5_MaxDebug.Program.calcArea returned	128	int
area	0	int
h	8	int
w	16	int

Application Configuration: N/A Platform: N/A

Build

Web

Package/Publish Web

Package/Publish SQL

Silverlight Applications

Build Events

Resources

Settings

Reference Paths

Signing

Configuration: N/A Platform: N/A

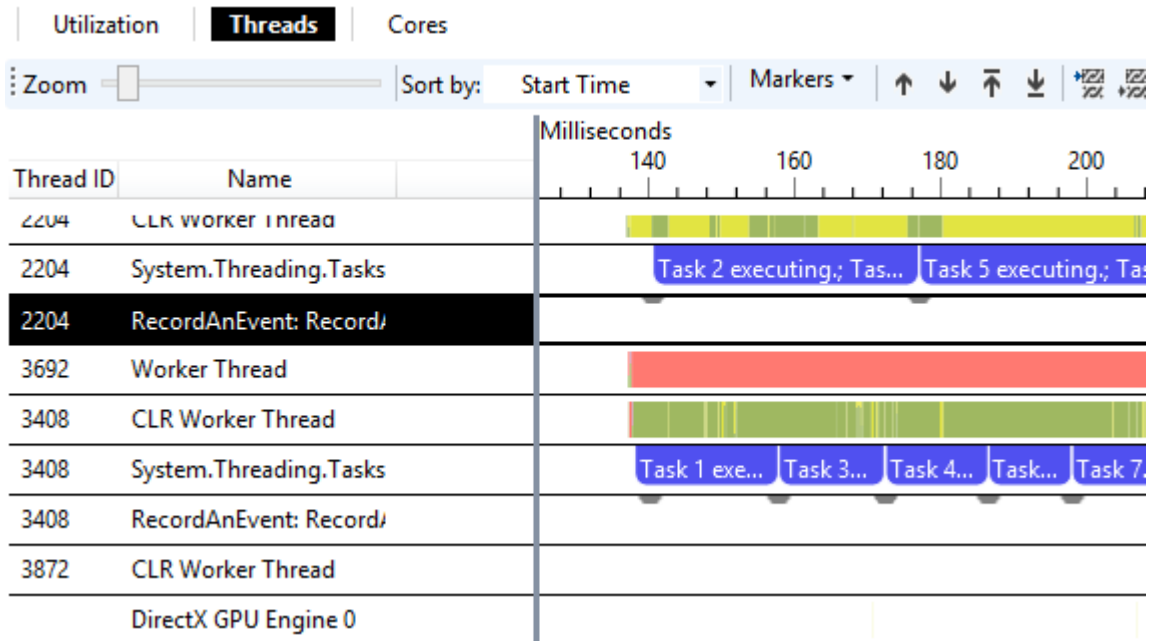
Project URL:

Override application root URL

Debuggers

ASP.NET

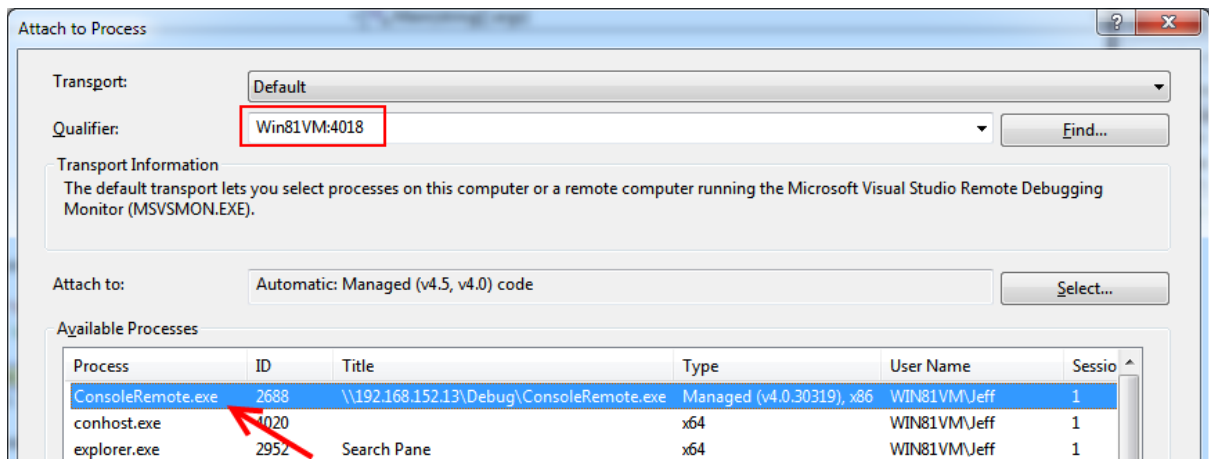
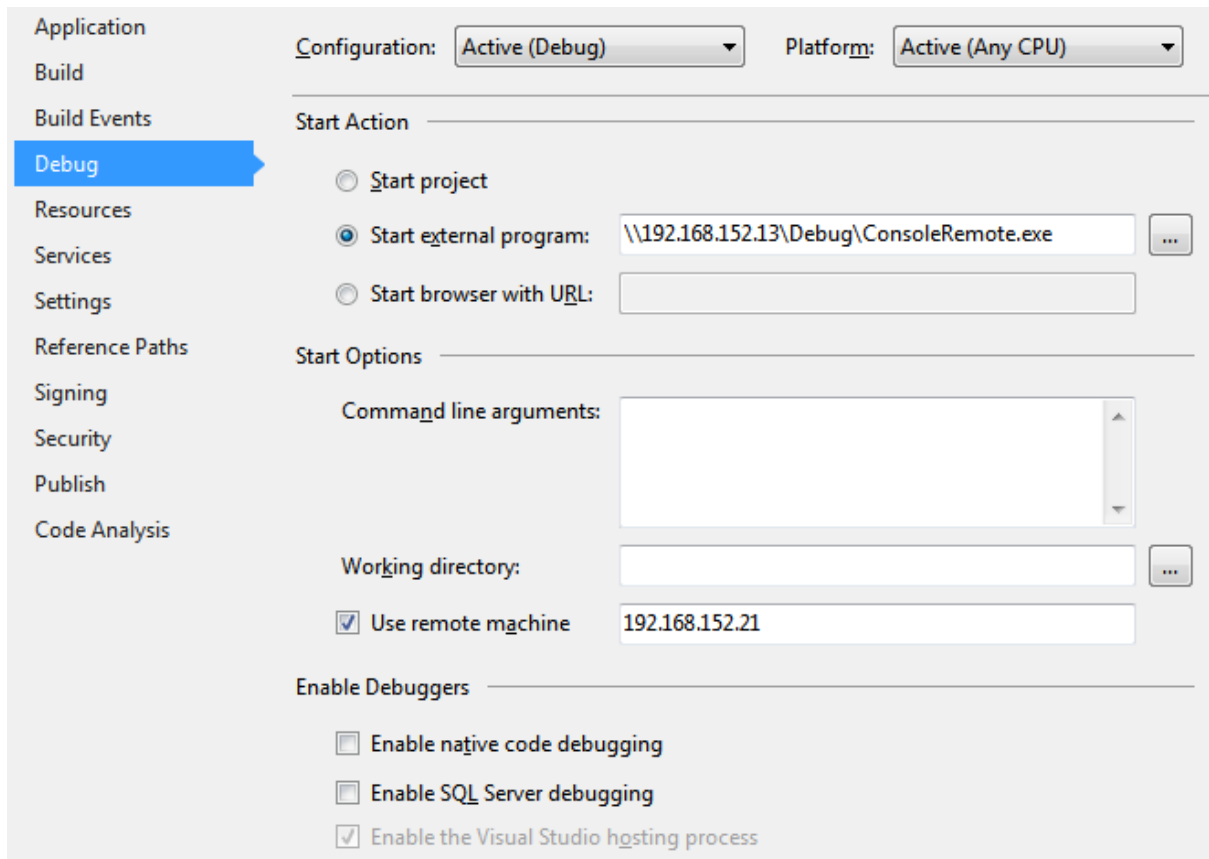
Enable Edit and Continue



Visual Studio Remote Debugging Monitor

File Tools Help

Date and Time	Description
10/26/2013 7:45:46 PM	Msvsmon started a new server named 'WIN81VM:4018'. Waiting for new connections.



Chapter 6: Asynchrony in .NET

```
Title: Massively [http://massively.joystiq.com]
  Post: Make My MMO: Crowdfunding October 20 - November 2, 2013[http://massively.joystiq.com/make-my-mmo-crowdfunding-october-20-november-2-2013/]
  Date: 11/2/2013 7:00:00 PM
-----
Title: Morning Dew [http://www.alvinashcraft.com]
  Post: Dew Drop â?" Anniversary Edition â?" November 1, 2013 (#1,654) [http://www.alvinashcraft.com/2013/11/01/dew-drop-anniversary-edition-november-1-2013/#1654]
  Date: 11/1/2013 8:45:23 AM
-----
Title: Scott Hanselman's Blog [http://www.hanselman.com/blog/]
  Post: Using a Surface 2 (RT/ARM) to get actual work done + Remote Desktop [http://www.hanselman.com/blog/Using-a-Surface-RTARM-to-get-actual-work-done-Remote-Desktop.aspx]
  Date: 10/31/2013 4:28:16 PM
-----
Title: .NET Parallel Programming [http://blogs.msdn.com/b/pfxteam/]
  Post: .NET memory allocation profiling and Tasks [http://blogs.msdn.com/b/pfxteam/archive/2013/04/04/net-memory-allocation-profiling-and-tasks.aspx]
  Date: 4/4/2013 1:26:00 PM
-----
Total Time: 00:00:03.4865682
```

```
starting...
finished...
Title: Massively [http://massively.joystiq.com]
  Post: Warhammer Online goes free for final weeks [http://massively.joystiq.com/warhammer-online-goes-free-for-final-weeks/]
  Date: 11/2/2013 9:00:00 PM
-----
Title: Morning Dew [http://www.alvinashcraft.com]
  Post: Dew Drop â?" Anniversary Edition â?" November 1, 2013 (#1,654) [http://www.alvinashcraft.com/2013/11/01/dew-drop-anniversary-edition-november-1-2013/#1654]
  Date: 11/1/2013 8:45:23 AM
-----
Title: Scott Hanselman's Blog [http://www.hanselman.com/blog/]
  Post: Using a Surface 2 (RT/ARM) to get actual work done + Remote Desktop [http://www.hanselman.com/blog/Using-a-Surface-RTARM-to-get-actual-work-done-Remote-Desktop.aspx]
  Date: 10/31/2013 4:28:16 PM
-----
Title: .NET Parallel Programming [http://blogs.msdn.com/b/pfxteam/]
  Post: .NET memory allocation profiling and Tasks [http://blogs.msdn.com/b/pfxteam/archive/2013/04/04/net-memory-allocation-profiling-and-tasks.aspx]
  Date: 4/4/2013 1:26:00 PM
-----
Total Time: 00:00:01.6033822
```

Load Feeds

00:00:00.6903628

NASA Breaking News

<http://www.nasa.gov/>

Three Space Station Crews Answer Media Questions from Orbit

<http://www.nasa.gov/press/2013/november/three-space-station-crews-ans>
11/1/2013 12:00:00 PM

Scott Hanselman's Blog

<http://www.hanselman.com/blog/>

Using a Surface 2 (RT/ARM) to get actual work done + Remote Desktop +

<http://feeds.hanselman.com/~49293971/0/scotthanselman~Using-a-Surf>
10/31/2013 4:28:16 PM

Massively

<http://massively.joystiq.com>

Ragnarok Online debuts on Steam

<http://massively.joystiq.com/2013/11/02/ragnarok-online-debuts-on-stea>
11/2/2013 10:00:00 PM

WebForm1.aspx* [icon] [x] Your ASP.NET application

```
<%@ Page Language="C#" AutoEventWireup="true"  
CodeBehind="WebForm1.aspx.cs"  
Inherits="WebFeedReader.WebForm1"  
Async="true"%>
```

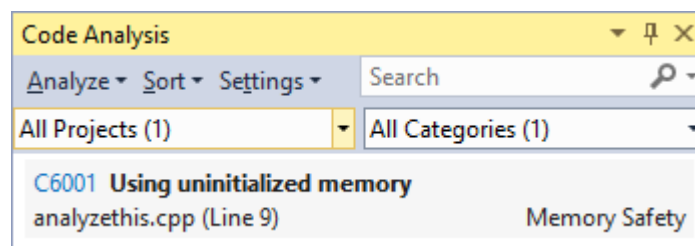
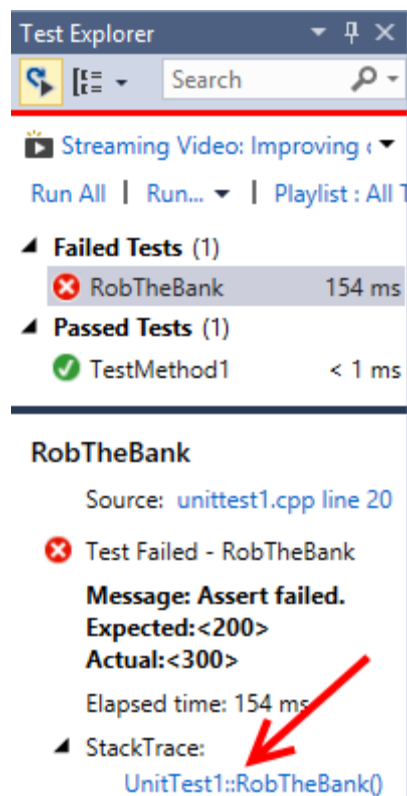
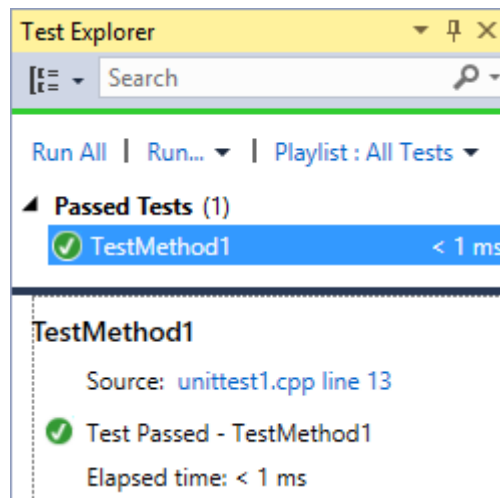
[back] [forward] [http://localhost:1186/WebForm1]

00:00:01.0475018

```
Output
Show output from: Debug
'iisexpress.exe' (CLR v4.0.30319:
'iisexpress.exe' (CLR v4.0.30319:
Duration: 00:00:00
198178
267164
2290
```

```
file:///c:/users/jeff/documents/visual studio 2013/Projects/DataFlow/Dat...
hjsdoiSA==
oSg==
waiting for the queue to flush
RA==
Tw==
SQ==
Uw==
Tw==
SQ==
press any key
```

Chapter 7: Unwrapping C++ Development



Code Analysis

Analyze ▾ Sort ▾ Settings ▾ Search 🔍

All Projects (1) ▾ All Categories (1) ▾

C6001 Using uninitialized memory
Using uninitialized memory 'x'.

Line Explanation

5 'x' is not initialized
9 'x' is used, but may not have been initialized

analyzethis.cpp (Line 9) Memory Safety

Warning Actions ▾

AnalyzeCode Property Pages

Configuration: Active(Debug) ▾ Platform: Active(Win32) ▾ Configuration Manager...

- Common Properties
- Configuration Properties
 - General
 - Debugging
 - VC++ Directories
- C/C++
- Librarian
- XML Document Generator
- Browse Information
- Build Events
- Custom Build Step
- Code Analysis
 - General**

Enable Code Analysis on Build

Rule Set

Run this rule set:

Microsoft Native Recommended Rules ▾ Open

Description:

These rules focus on the most critical and common problems in your native code, including potential security holes and application crashes. You should include this rule set in any custom rule set you create for your native projects. This ruleset is designed to work with Visual Studio Professional edition and higher.

Path:

[Learn more about rule sets](#)

OK Cancel Apply

NativeRecommendedRules.ruleset* AnalyzeThis.cpp AnalyzeThis.h

Group by: Category C6244

i This is a Microsoft rule set and cannot be modified. To create your own rule set based on this rule set, make your changes below. Then save your changes to a new file to create the rule set.

ID	Name	Action
▾ <input type="checkbox"/> Microsoft.VC.AmbiguousIntent		None
<input type="checkbox"/> C6244	Local declaration hides global	i None

Properties	
Rule Set Document	
<div style="border: 1px solid gray; padding: 2px;"> ☰ ⏴ ⏵ </div>	
<div style="border: 1px solid gray; padding: 2px;"> ☰ Misc </div>	
Description	These rules focus on the most critical and common problems in your nat
Description Resource	NativeRecommendedRules_Description
Name	Cookbook Native Recommended Rules
Name Resource	NativeRecommendedRules_Name
Resource Assembly	C:\Program Files (x86)\Microsoft Visual Studio 12.0\Team Tools\Static A
Resource Base Name	Microsoft.VisualStudio.CodeAnalysis.RuleSets.Strings.Localized

Name

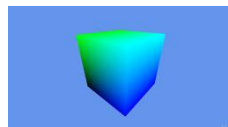
The non-localized display name of the rule set.

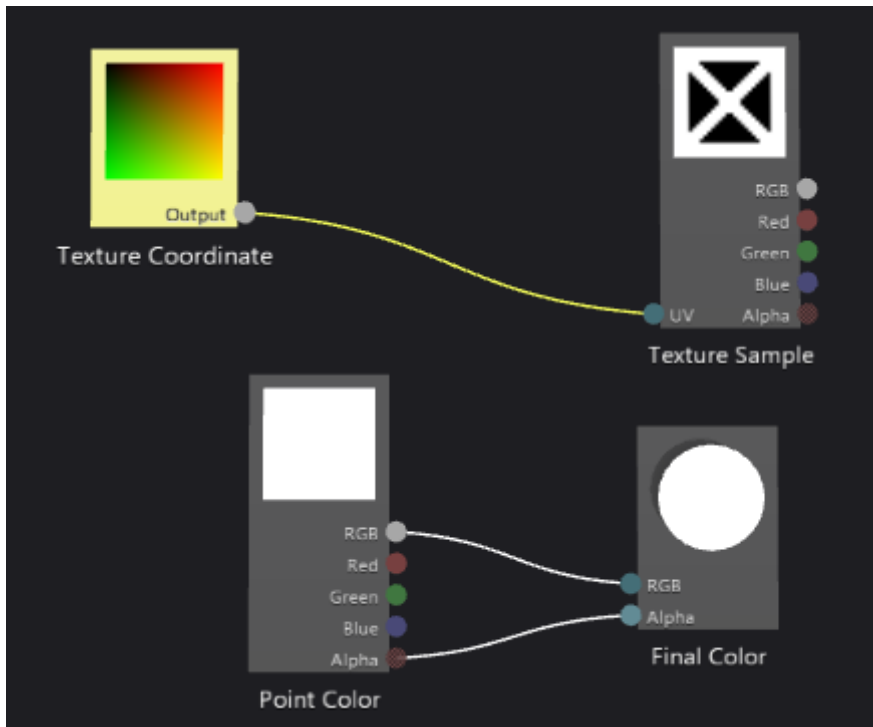
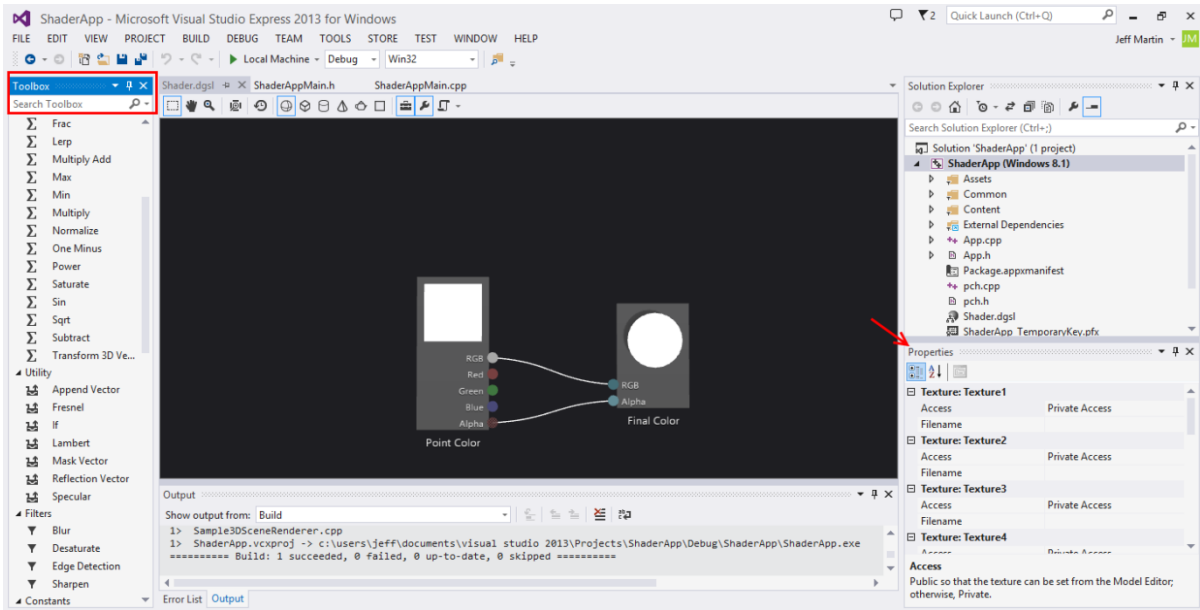
Code Analysis ⏴ ⏵ ✕

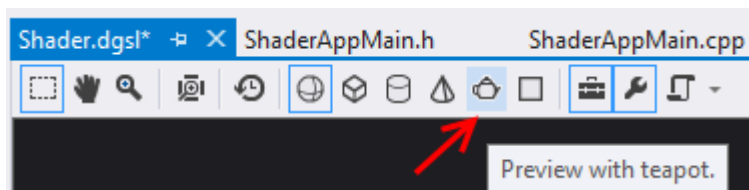
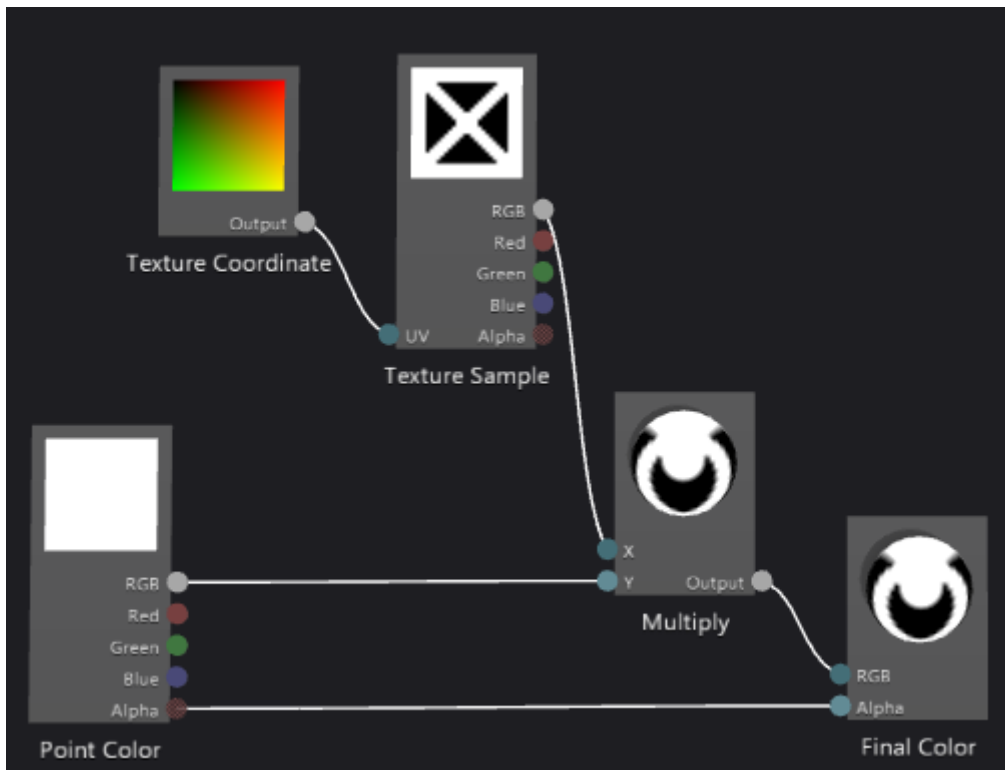
Analyze Sort Settings Search 🔍

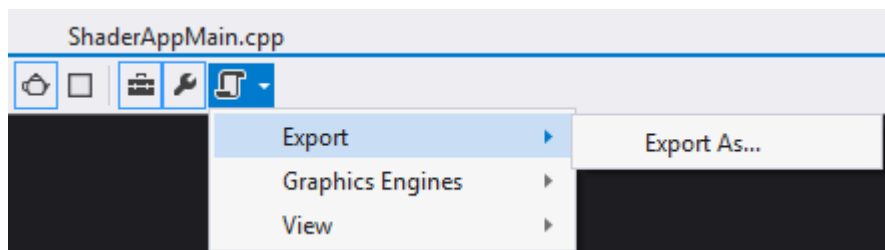
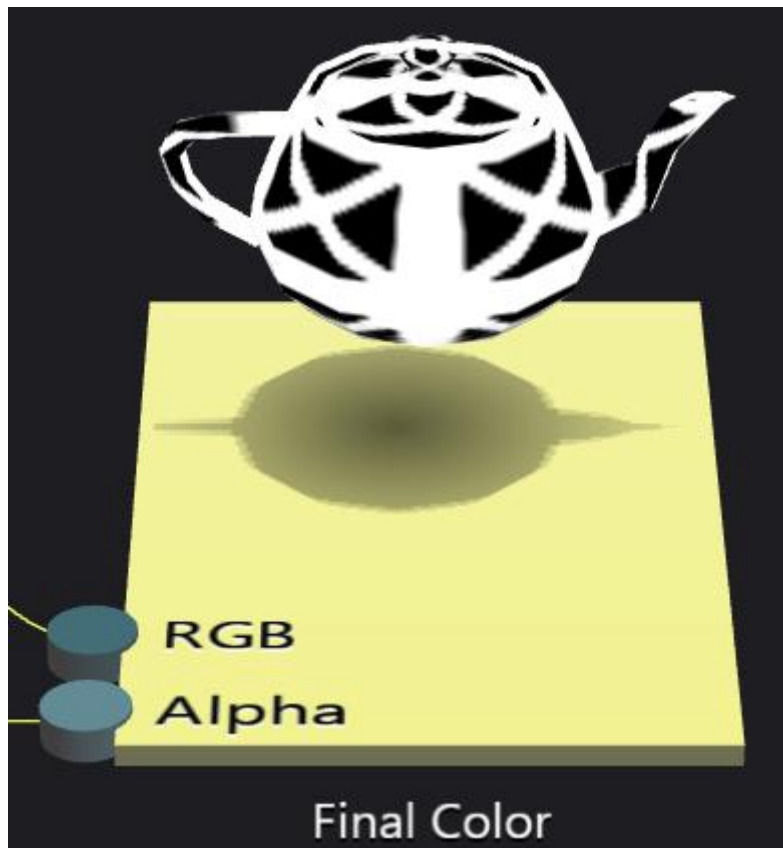
All Projects (1) All Categories (1)

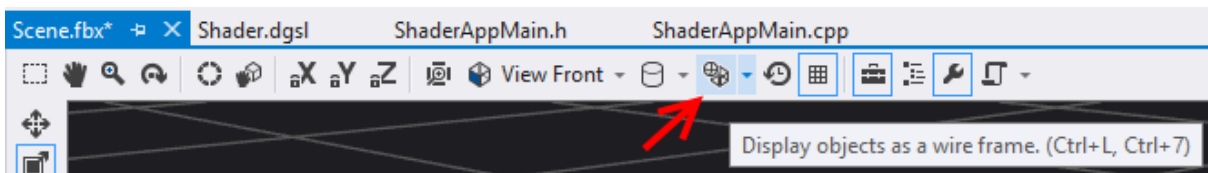
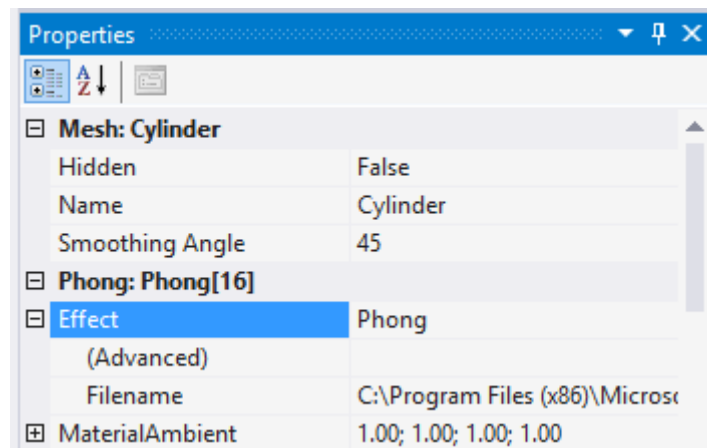
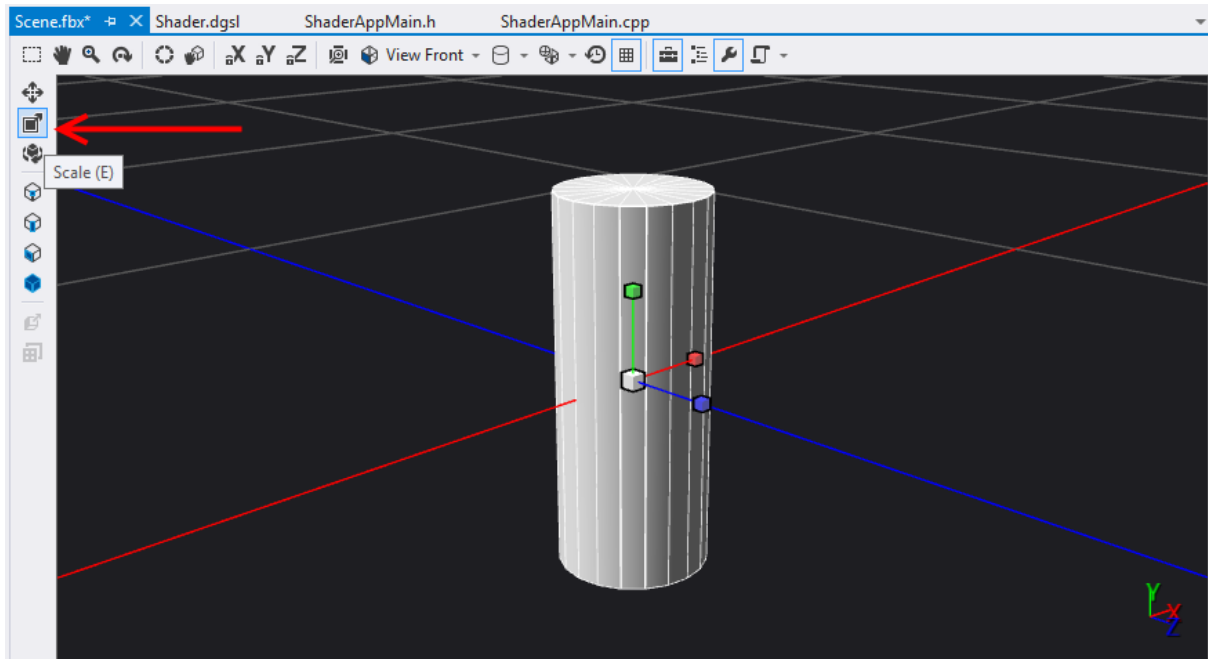
C6244 **Local declaration hides global**
 analyzethis.cpp (Line 7) Ambiguous Intent

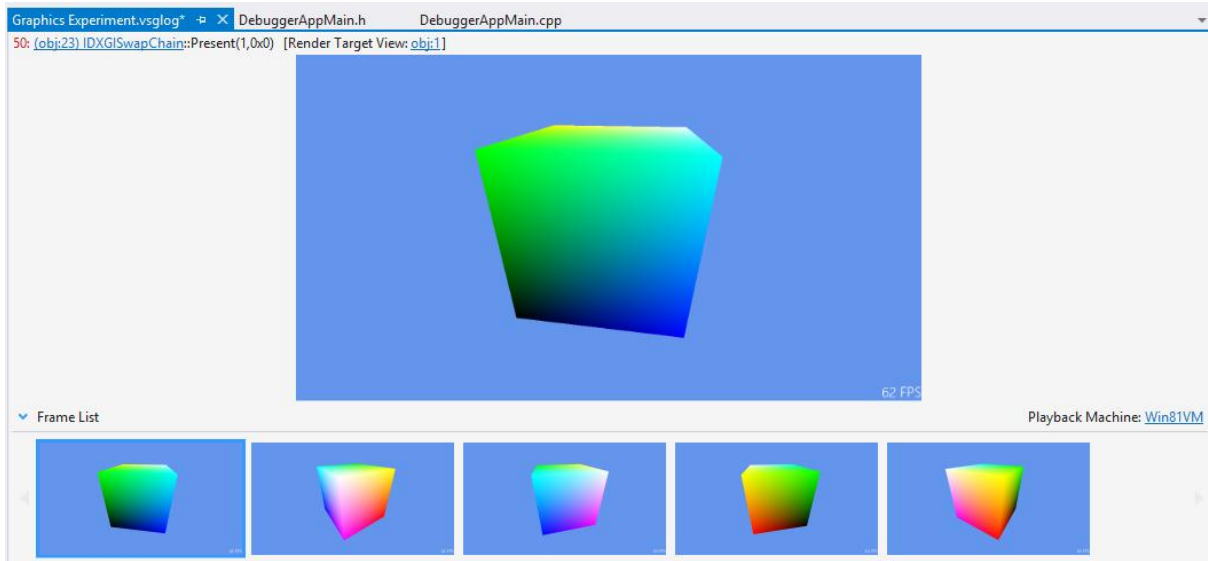













Graphics Pixel History

Final Pixel Color

	R: 0.000000000	<input type="checkbox"/> Render Alpha
	G: 0.768627451	
	B: 0.474509804	Frame: 587
	A: 1.000000000	Pixel: 657, 341

- ▶ Initial
- ▶ 5: (obj:2) ID3D11DeviceContext::ClearRenderTarget
- ▶ 16: (obj:2) ID3D11DeviceContext::DrawIndexed(3
- ▶ 16: Final

Initial

5: (obj:2) ID3D11DeviceContext::ClearRenderTargetView

16: (obj:2) ID3D11DeviceContext::DrawIndexed(3)

Triangle (2) of (12)

- Vertex Shader
- Pixel Shader

Output Merger

Previous

R: 0.392156899
G: 0.584313750
B: 0.929411829
A: 1.000000000

Pixel Shader

R: 0.000000000
G: 0.768627451
B: 0.474509804
A: 1.000000000

Result

R: 0.0000
G: 0.7686
B: 0.4745
A: 1.0000

16: Final

Initial

5: (obj:2) ID3D11DeviceContext::ClearRenderTargetView

16: (obj:2) ID3D11DeviceContext::DrawIndexed(3)

Triangle (2) of (12)

Vertex Shader

Vertex 1

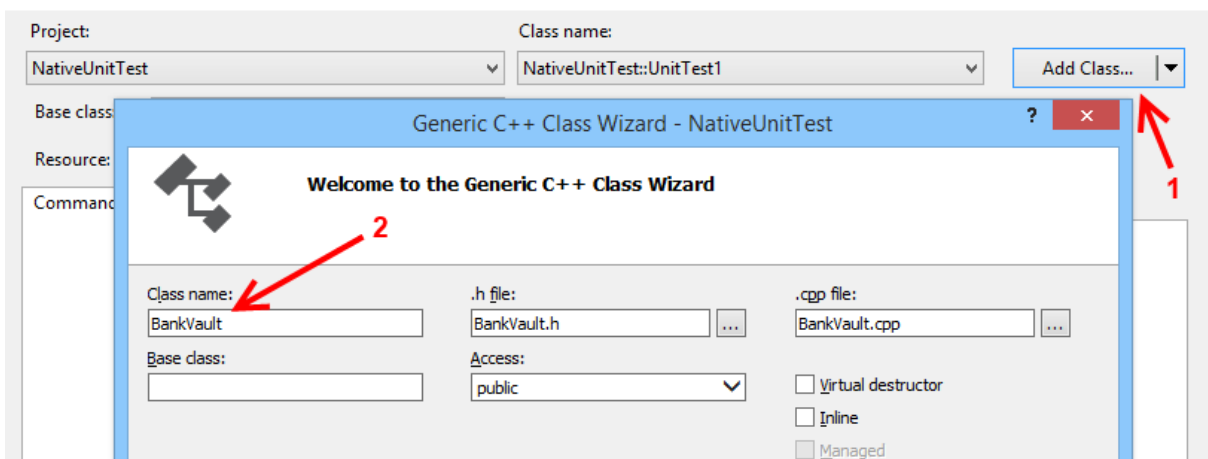
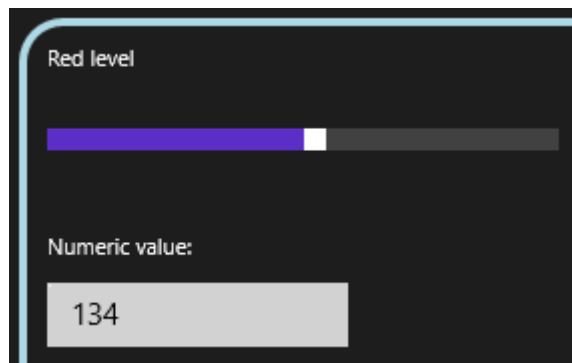
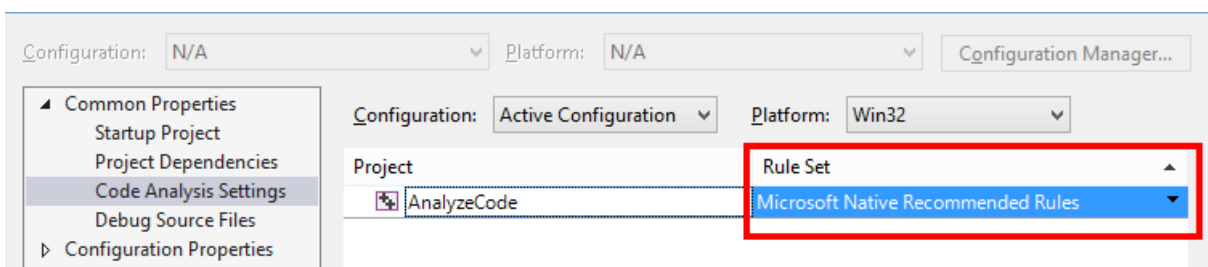
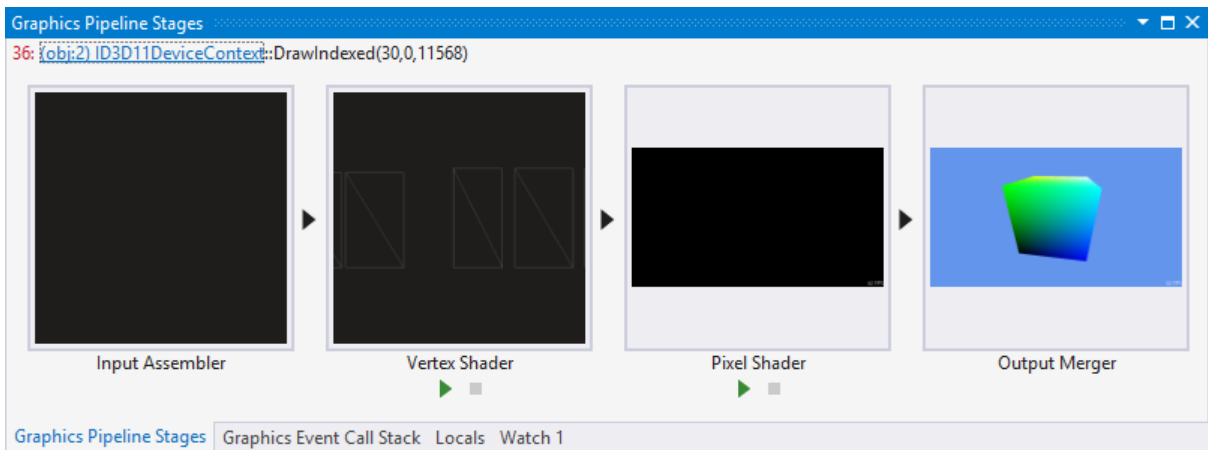
POSITION x=-0.5, y=-0.5, z=0.5
COLOR x=0, y=0, z=1

Graphics Event Call Stack

50: (obj:23) IDXGISwapChain::Present(1,0x0)

Name	File
DebuggerApp.exe!DX::DeviceResources::Present	c:\users\jeff\documents\visual studio 2013\projects\debuggera
DebuggerApp.exe!DebuggerApp::App::[Windows::ApplicationModel::Core::IFram	c:\users\jeff\documents\visual studio 2013\projects\debuggera
twinapi.appcore.dll!1f45e	Symbol file not found.

Graphics Event Call Stack | Locals | Watch 1



Add Member Function Wizard - NativeUnitTest

Welcome to the Add Member Function Wizard

Return type: int

Parameter type: int

Access: public

Function name: AddFunds

Parameter name:

Parameter list: int amount

.cpp file: bankvault.cpp

Comment (// notation not required):

Function signature: int AddFunds(int amount)

Test Explorer

Search

Run All | Run... | Playlist: All Tests

Failed Tests (1)

TestMethod1 146 ms

TestMethod1

Source: unittest1.cpp line 13

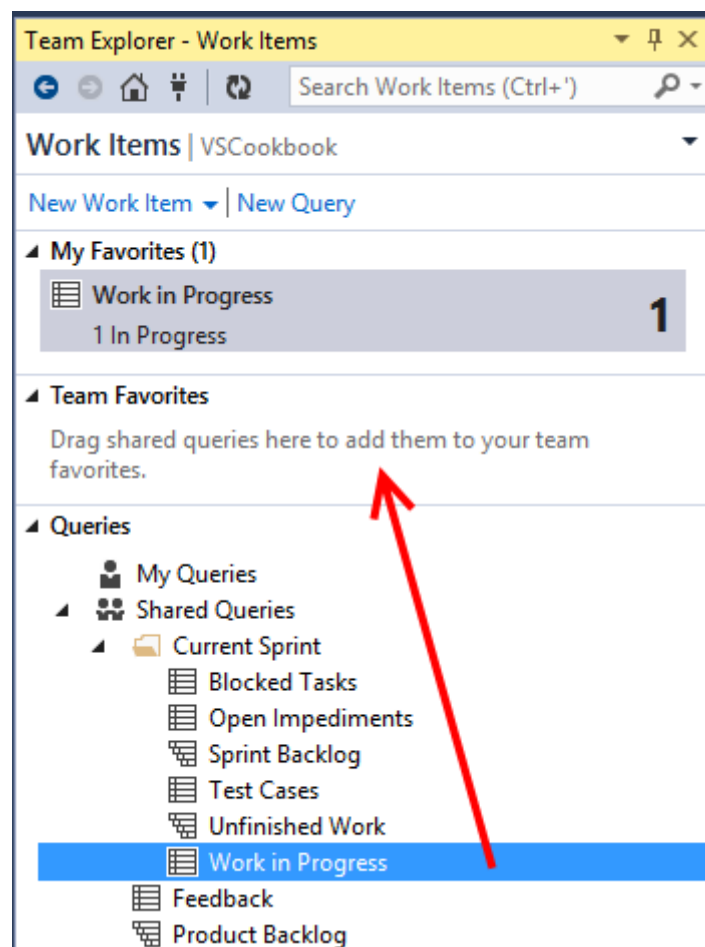
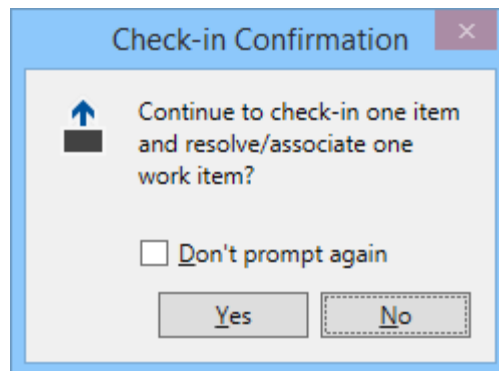
Test Failed - TestMethod1

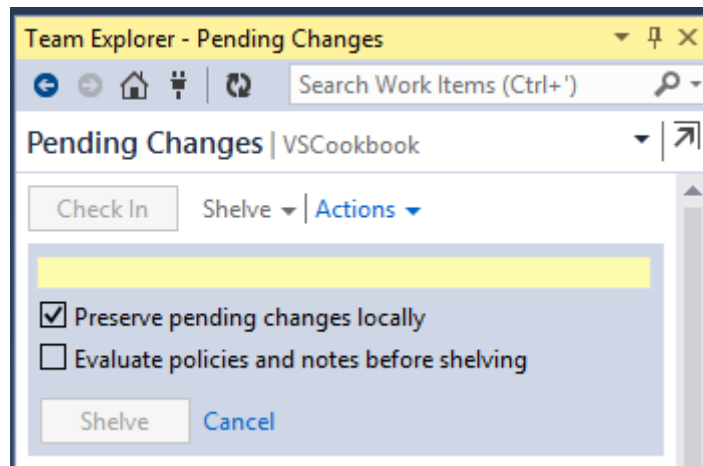
Message: Assert failed.
Expected:<100> Actual:<0>

Elapsed time: 146 ms

StackTrace:
UnitTest1::TestMethod1()

Chapter 8: Working with Team Foundation Server 2013





Project

[Web Portal](#) | [Task Board](#) | [Team Room](#)

My Work ...	Pending Changes ...
Source Control Explorer	Work Items ...
Builds	Settings

In Progress Work

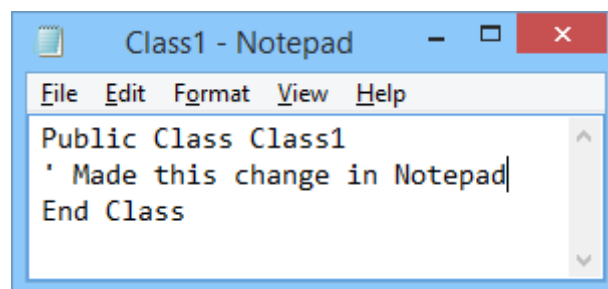
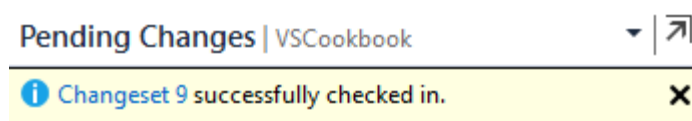
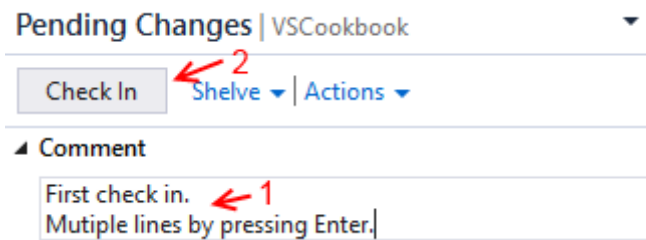
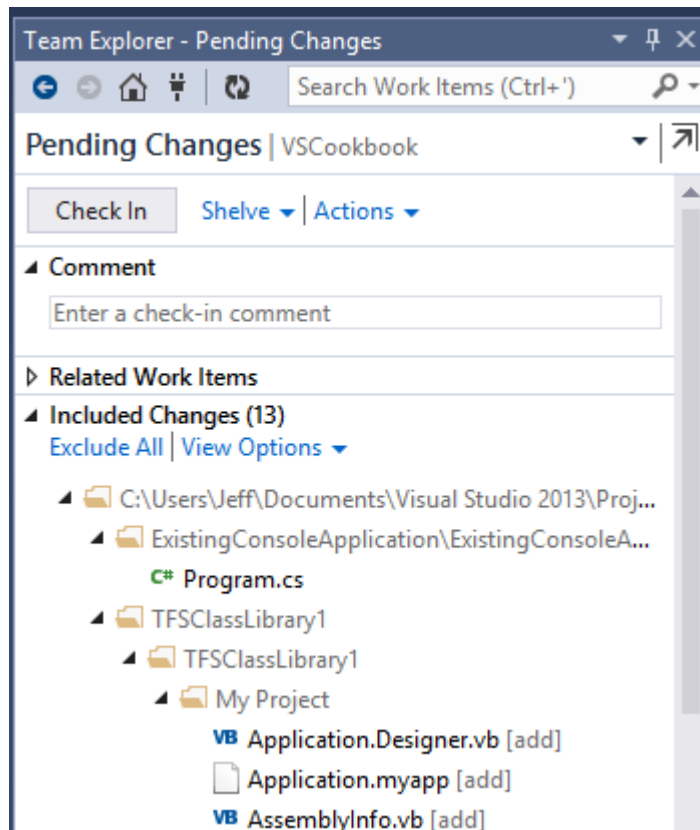
[Suspend](#) | [Request Review](#) | [Check In](#) | [Actions](#)

1 edit(s) | [View Changes](#)

Suspended Work

[Resume](#) | [Merge with In Progress](#)

No suspended work.



Check In | Shelve ▾ | Actions ▾


▾ Comment

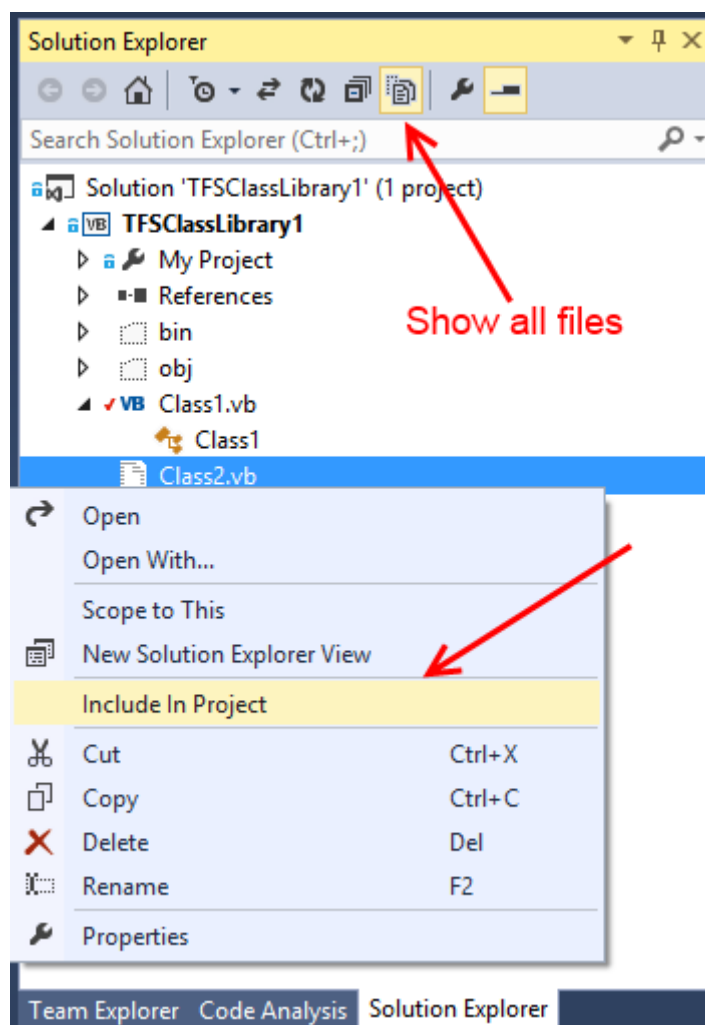
Enter a check-in comment

▸ Related Work Items

▾ Included Changes (1)


Exclude All | View Options ▾

▾  c:\users\jeff\documents\visual studio 2013\Projects\...
VB Class1.vb



▲ **Included Changes (3)**

[Exclude All](#) | [View Options](#) ▼

- ▲  c:\users\jeff\documents\visual studio 2013\Projects\...
 - VB** Class1.vb
 - VB** Class2.vb [add]
 - TFSCClassLibrary1.vbproj

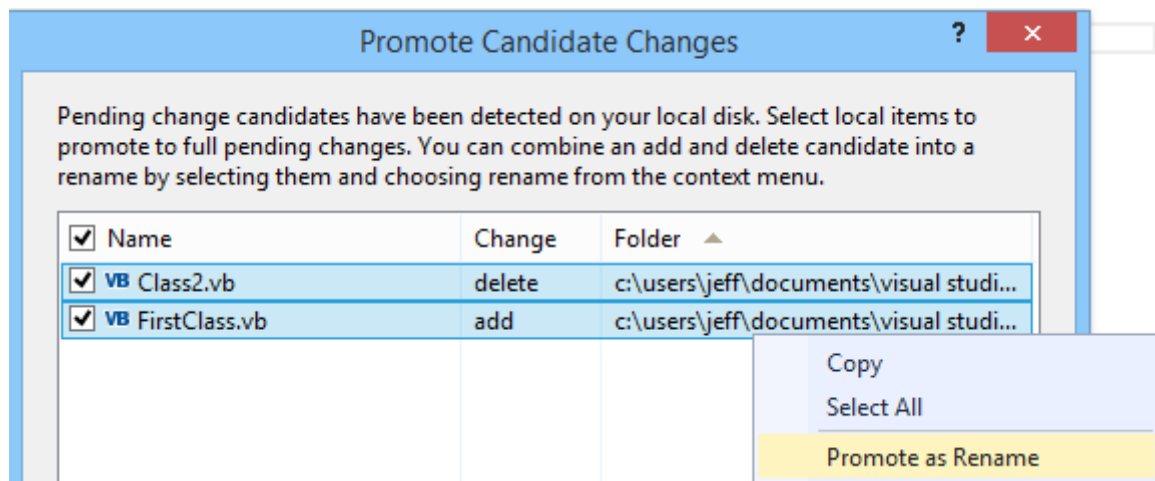
▶ **Related Work Items**

▶ **Included Changes**

▲ **Excluded Changes**


[Include All](#) | [View Options](#) ▼ | Detected: 1 add(s), 1 delete(s)

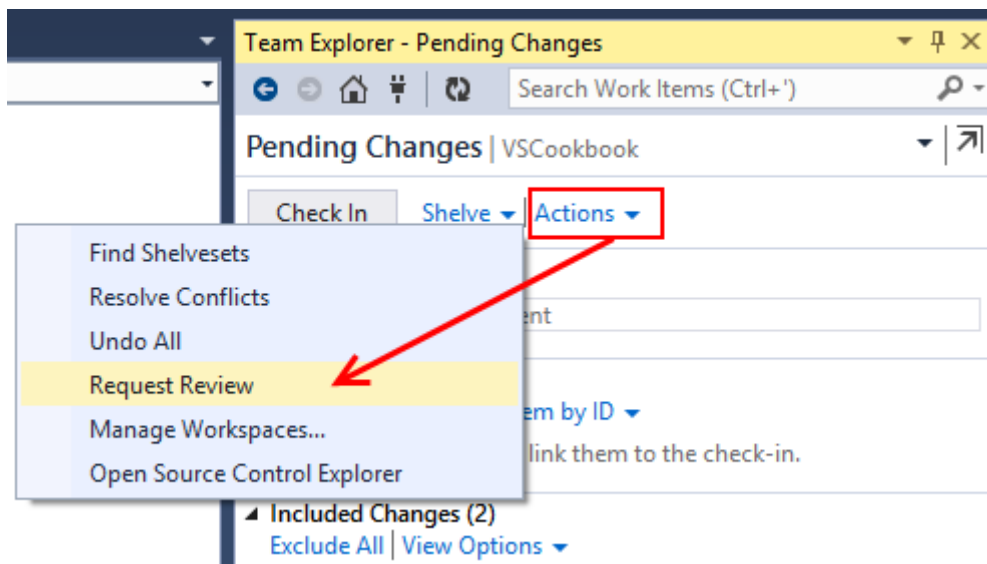
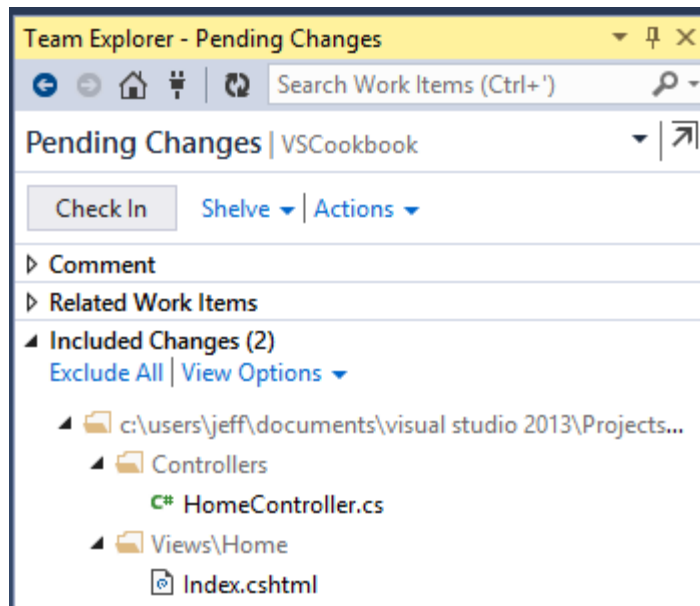
There are no pending changes.



▲ **Included Changes (2)**

[Exclude All](#) | [View Options](#) ▼

- ▲  c:\users\jeff\documents\visual studio 2013\Projects...
 - VB** FirstClass.vb [Class2.vb][rename, edit]
 - TFSCClassLibrary1.vbproj



New Code Review | VSCookbook ⌵

📺 Streaming Video: Using Code Review to improve quality ⌵

2 edit(s) | [View Changes](#)


Select one or more reviewers to review your changes and enter a comment for them if appropriate

 J Martin ⌵

[Add Reviewer](#) | Press Enter to add this reviewer

 Take a look at this code.


 VSCookbook ⌵

 Enter a description (optional)

[Cancel](#)


🔼 Code Reviews (1)

[My Code Reviews & Requests](#) ⌵ | [Open Query](#)

▶  5 - Take a look at this code.

🔼 Code Reviews (1)

[My Code Reviews & Requests](#) ⌵ | [Open Query](#)

 Jeff Martin: 5 - Take a look at this code.

Team Explorer - Code Review

Search Work Items (Ctrl+') 🔍

Code Review | VSCookbook

Take a look at this code.
Requested by Jeff Martin.

Send Comments | Send & Finish ▾ | View Shelveset | Actions ▾

You can [Accept](#) or [Decline](#) to let the requestor know whether you will do the code review.

Reviewers (1)
Add Reviewer ▾

J Martin - Requested ✕

Related Work Items

Comments

- Overall
 - Add Overall Comment
- Files
 - ...k/WebAppCodeReview/WebAppCodeReview/Controllers
 - C# HomeController.cs
 - .../WebAppCodeReview/WebAppCodeReview/Views/Home
 - Index.cshtml

WebAppCodeReview

Code Review - HomeController.cs

Read-only comparison view. You can add comments by selecting code to comment on, right clicking and choosing Add Comment.

WebAppCodeReview.Controllers.HomeController.cs | Index() | WebAppCodeReview.Controllers.HomeController.cs | AboutUs()

```

4 using System.Web;
5 using System.Web.Mvc;
6
7 namespace WebAppCodeReview.Controllers
8 {
9     public class HomeController : Controller
10    {
11        public ActionResult Index()
12        {
13            return View();
14        }
15
16        public ActionResult About()
17        {
18            ViewBag.Message = "Your application description here.";
19
20            return View();
21        }
22
23        public ActionResult Contact()
24        {
25            ViewBag.Message = "Your contact page.";
26
27            return View();
28        }
29    }
30 }

```

```

4 using System.Web;
5 using System.Web.Mvc;
6
7 namespace WebAppCodeReview.Controllers
8 {
9     public class HomeController : Controller
10    {
11        public ActionResult Index()
12        {
13            return View();
14        }
15
16        public ActionResult AboutUs()
17        {
18            ViewBag.Message = "AboutUs - Modern web application.";
19
20            return View();
21        }
22
23        public ActionResult Contact()
24        {
25            ViewBag.Message = "Contacting details";
26
27            return View();
28        }
29    }
30 }

```

100% | Removed | Added | Code Review comment | Help


```
public ActionResult AboutU
{
    ViewBag.Message = "Ab
```

+ Add Comment Ctrl+Shift+K
Edit Local File Ctrl+Shift+P

Files
...k/WebAppCodeReview/WebAppCodeReview/Controllers
C# HomeController.cs

You forgot to change the name of the View. Either undo the method name change or rename the view correctly as well.

Save (Ctrl+Enter) | Cancel | Line 16

Comments (2)
Overall

Overall pretty good. Take note of the comment on the controller.

Save (Ctrl+Enter) | Cancel
Add Overall Comment

Other links

- [Request feedback](#)
- [Configure schedule and iterations...](#)
- [Configure work areas...](#)

1 Select Stakeholders
The people you select will receive an email request that includes a link to launch Microsoft Feedback Client, the tool stakeholders use to provide feedback.

Jeff Martin X

Display Name or Microsoft Account

Browse | Check name

2 Tell Stakeholders How to Access the Application
Microsoft Feedback Client will display a link to launch the specified application and your exact instructions, which might include login credentials, specific navigations steps to follow, or general context of the application to review.

Web Application Remote Machine Client Application

www.packtpub.com

B / U

Instructions to launch the application listed above

3

Tell Stakeholders How to Focus Their Feedback

Scope the feedback request to only the areas of the product you care about. You can request feedback on one to five items.

Item: 1 Look for cookbooks of interest

B / U      

Anything on Visual Studio?

[+ Add feedback item](#)



VisualStudioOnline@microsoft.com

to Jeff Martin

cc Jeff Martin

Sun, Dec 15 11:06 PM

Jeff Martin is inviting you to provide feedback on team project [VSCookbook](#)

We want your feedback for the following items:

1. Look for cookbooks of interest

Start your feedback session

If the feedback tool is not already installed on your machine, [install the feedback tool](#).

Thanks,
Jeff Martin

If clicking the "Start your feedback session" link fails to launch the feedback session, copy the following URL (mfbcients://[redacted].visualstudio.com/DefaultCollection/p:VSCookbook?rid=7) and paste it into a browser address bar to start the session.

Start **Provide** Submit

ITEM: **1**

Look for cookbooks of interest
Anything on Visual Studio?

Screen with Voice Screen only Screenshot Attach file

Record Attach

Not recording Stop

B / *I* / U | A | [List Icon] | [List Icon] | [List Icon] | [List Icon] | [List Icon]

|

Rate this item: ☆ ☆ ☆ ☆ ☆

Previous Next

Queries

- My Queries
- Shared Queries
 - Current Sprint
 - Feedback**
 - Product Backlog

WebAppCodeReview

Feedback [Results] [X]

Save Results Save Query Edit Query Column Options

Query Results: 1 items found (1 currently selected).

ID	Title	State	Created By	Rating
8	Feedback Response from Jeff Martin for Look for cookbooks of interest	Active	Jeff Martin	5 - Excellent

Save Work Item Previous Next

Feedback Response 8 : Feedback Response from Jeff Martin for Look for cookbooks of interest

Feedback Response from Jeff Martin for Look for cookbooks of interest

NOTES STORIES SYSTEM INFO ALL LINKS ATTACHMENTS HISTORY

Stakeholder Comments

Visual Studio Cook 2013.

Screenshot_1_2013-12-16T04_16_22.png

STATUS

Created By Jeff Martin
Assigned To Jeff Martin
State Active
Rating 5 - Excellent

CLASSIFICATION

Area VSCookbook
Iteration VSCookbook\Release 1\Sprint 1

New Project

Recent

Installed

- Templates
 - Visual Basic
 - Visual C#
 - Visual C++
 - CLR
 - General
 - Test
 - Win32
 - SQL Server
 - Visual Studio Solutions
- Online

Sort by: Default

Search Installed Templates (Ctrl+E)

Icon	Template Name	Type
	Windows Forms Application	Visual C#
	WPF Application	Visual C#
	Console Application	Visual C#
	Class Library	Visual C#

Click here to go online and find templates.

Type: Visual C#
A project for creating a command-line application

Name: GitConsoleApplication1

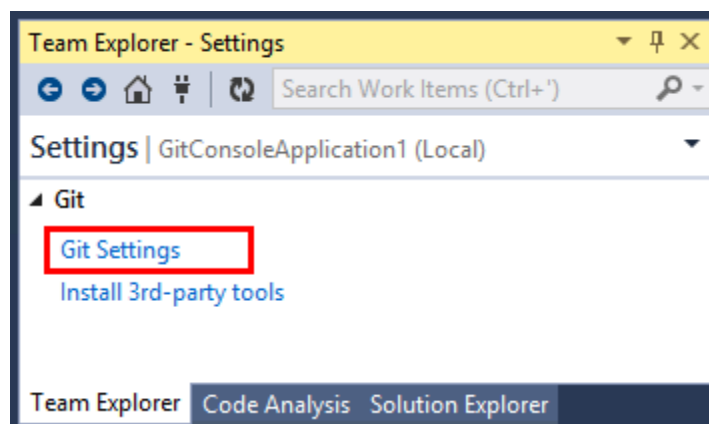
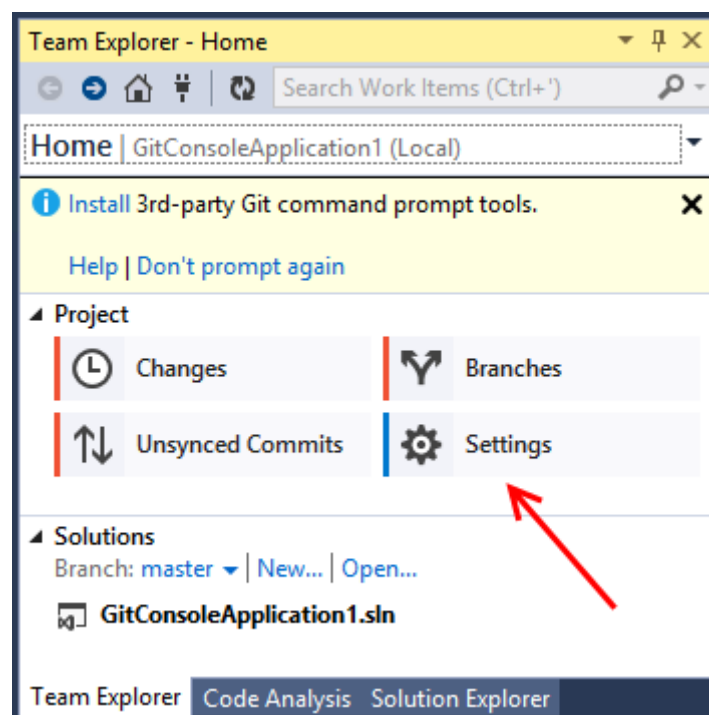
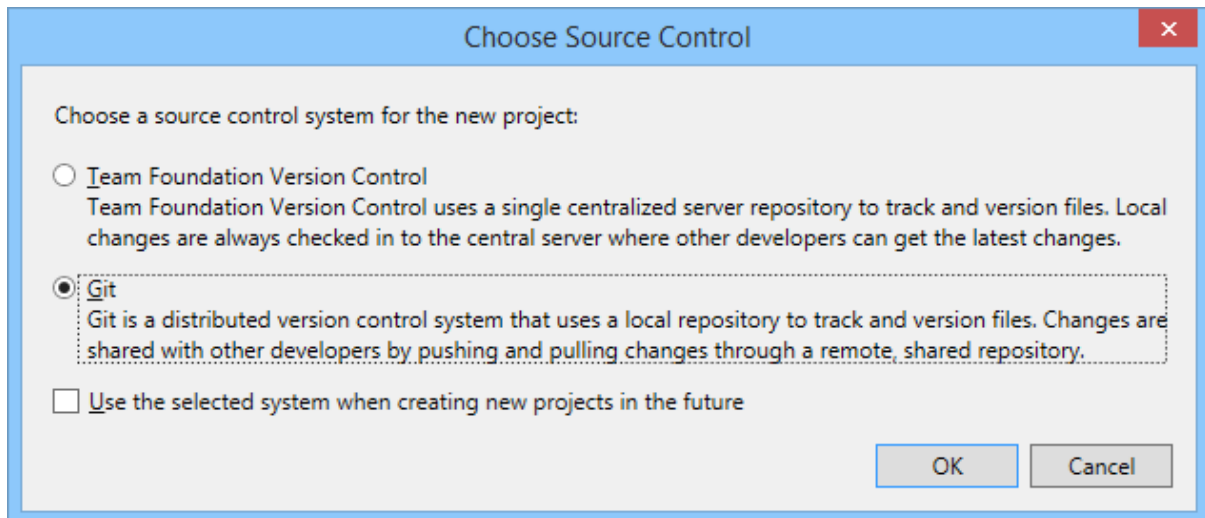
Location: c:\users\jeff\documents\visual studio 2013\Projects

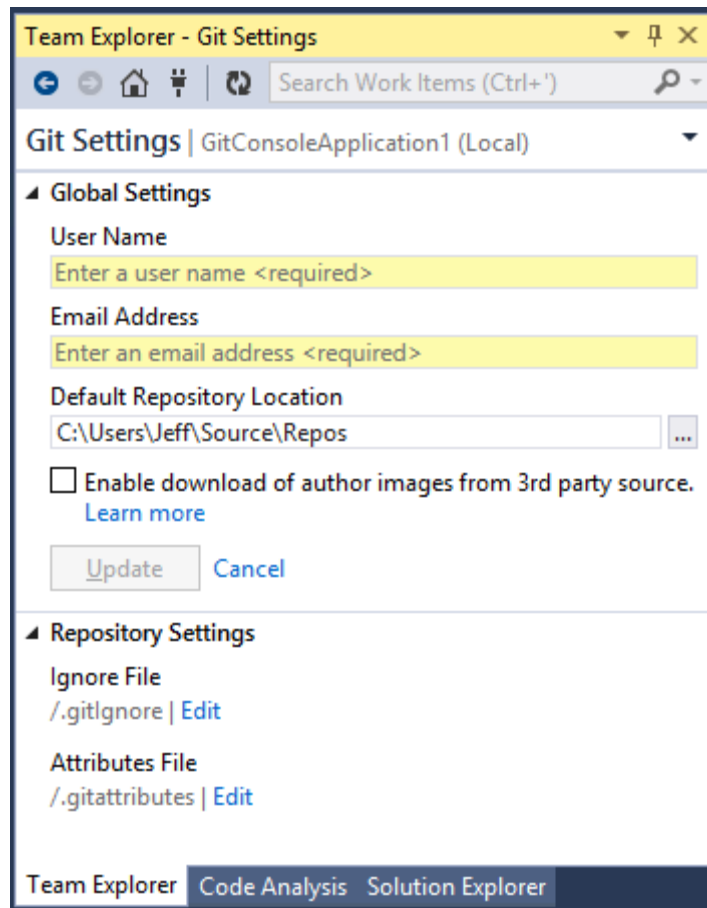
Solution name: GitConsoleApplication1

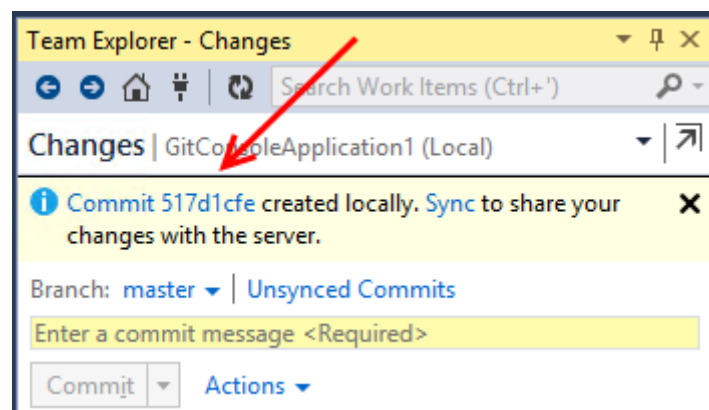
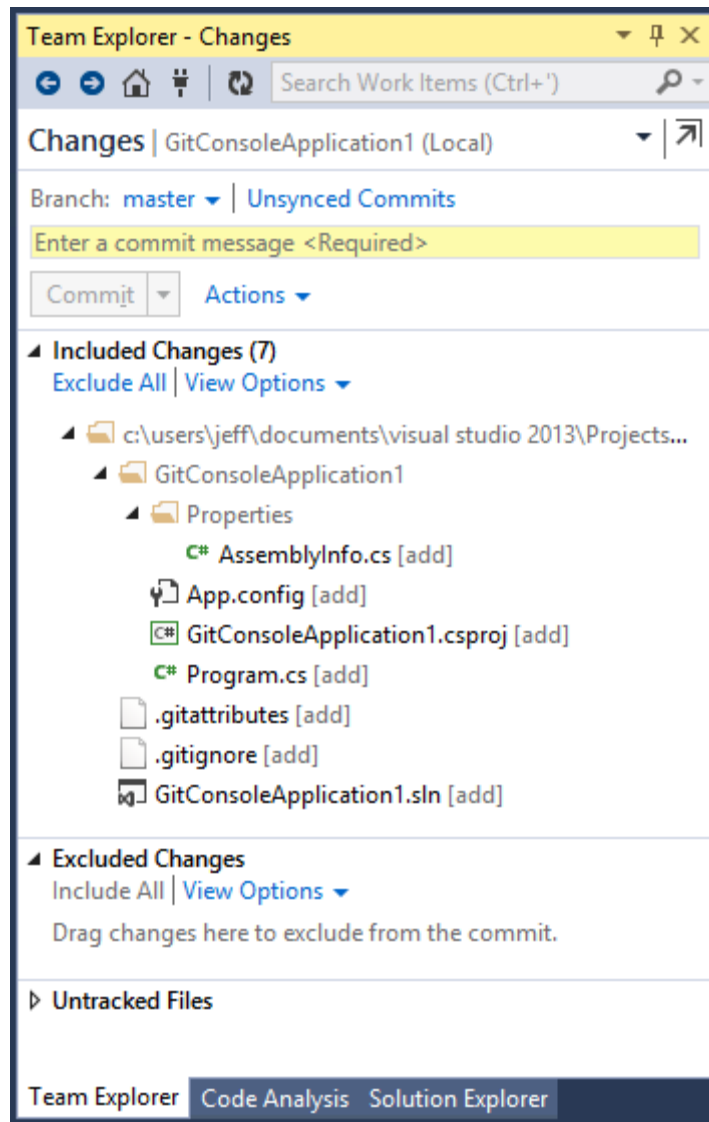
Create directory for solution

Add to source control

OK Cancel








Team Explorer - Commit Details

Search Work Items (Ctrl+')

Commit Details | GitConsoleApplication1 (Local)

Commit 517d1cfe

 Jeff
jeff@sample.net
2/17/2014 10:57:19 PM

First commit.

This is the first commit for our demonstration.

[Copy Commit ID](#) | [Actions](#)

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'GitConsoleApplication1' (1 project)

- GitConsoleApplication1
 - Properties
 - References
 - App.config
 - Class1.cs**
 - Program.cs

Team Explorer - Changes

Search Work Items (Ctrl+')

Changes | GitConsoleApplication1 (Local)

Branch: master | Unsynced Commits

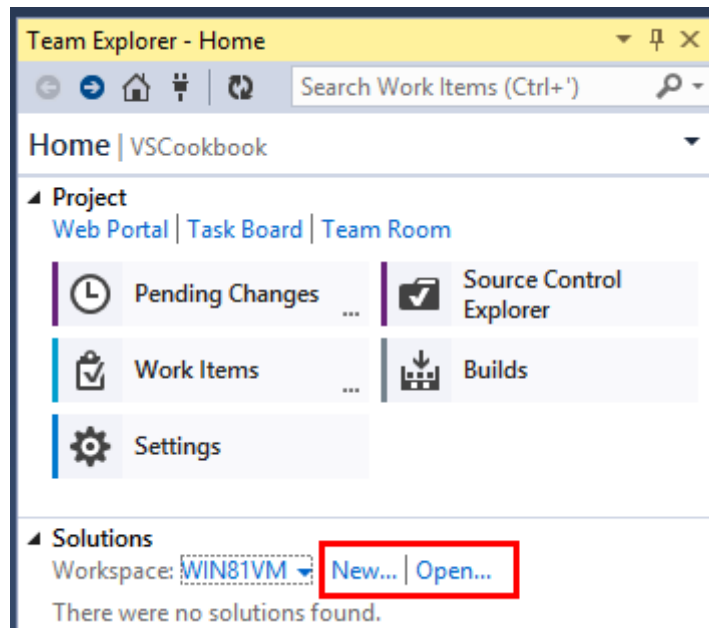
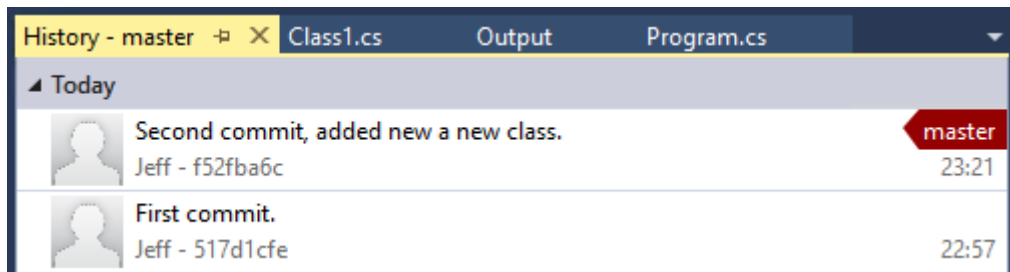
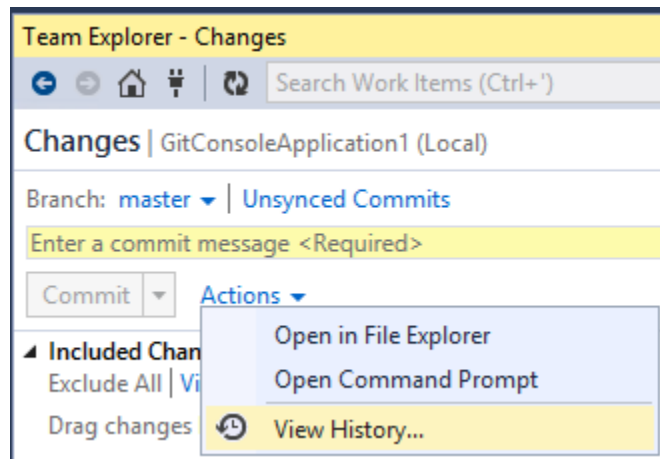
Enter a commit message <Required>

Commit | Actions

Included Changes (3)

Exclude All | View Options

- C:\Users\Jeff\Documents\Visual Studio 2013\Project...
 - C# Class1.cs [add]
 - C# GitConsoleApplication1.csproj
 - C# Program.cs



Create your first project

Welcome. Your account, [https://\[redacted\].visualstudio.com/](https://[redacted].visualstudio.com/), has been created and is ready to go. The next step is to create your first team project where you'll host your code and backlog. [Learn more](#)

Project name: *

Description:

Version control: * Team Foundation Version Control [Learn more](#) [i](#)
 Git [i](#)

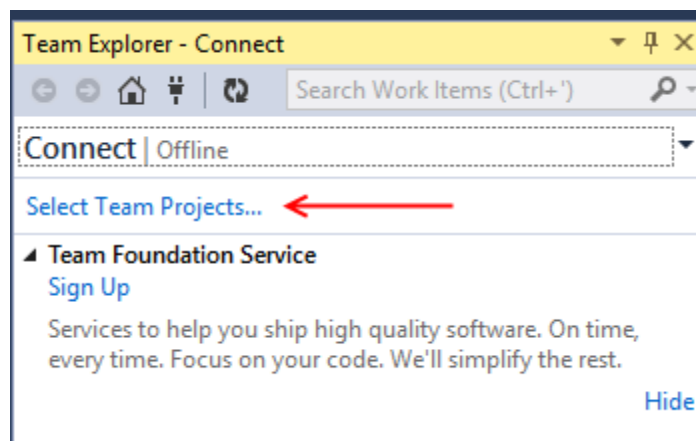
Process template: Microsoft Visual Studio Scrum 2013 [Learn more](#) [i](#)

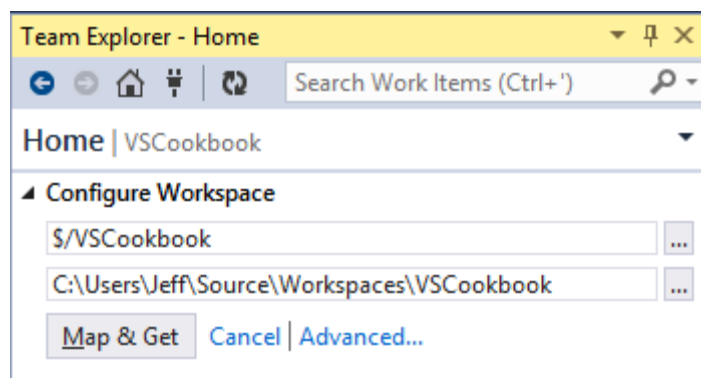
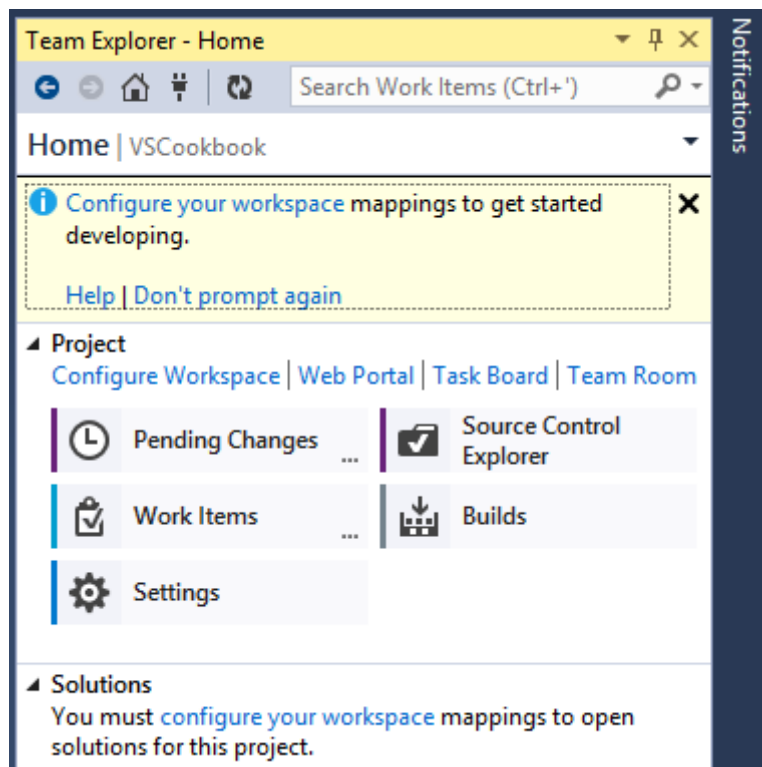
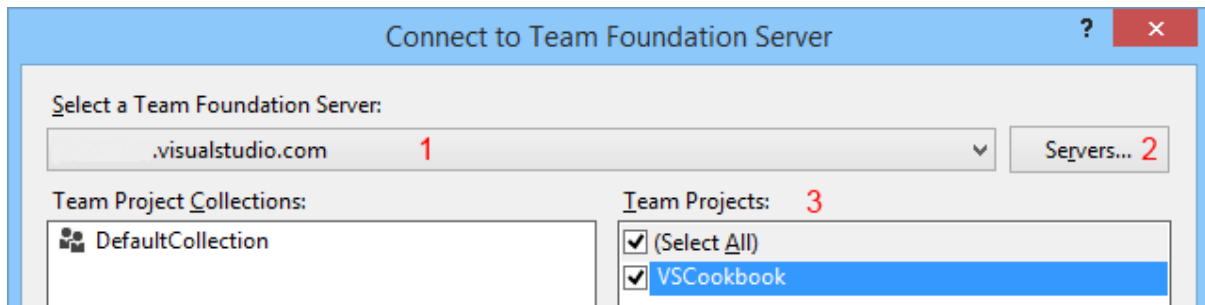
Create project

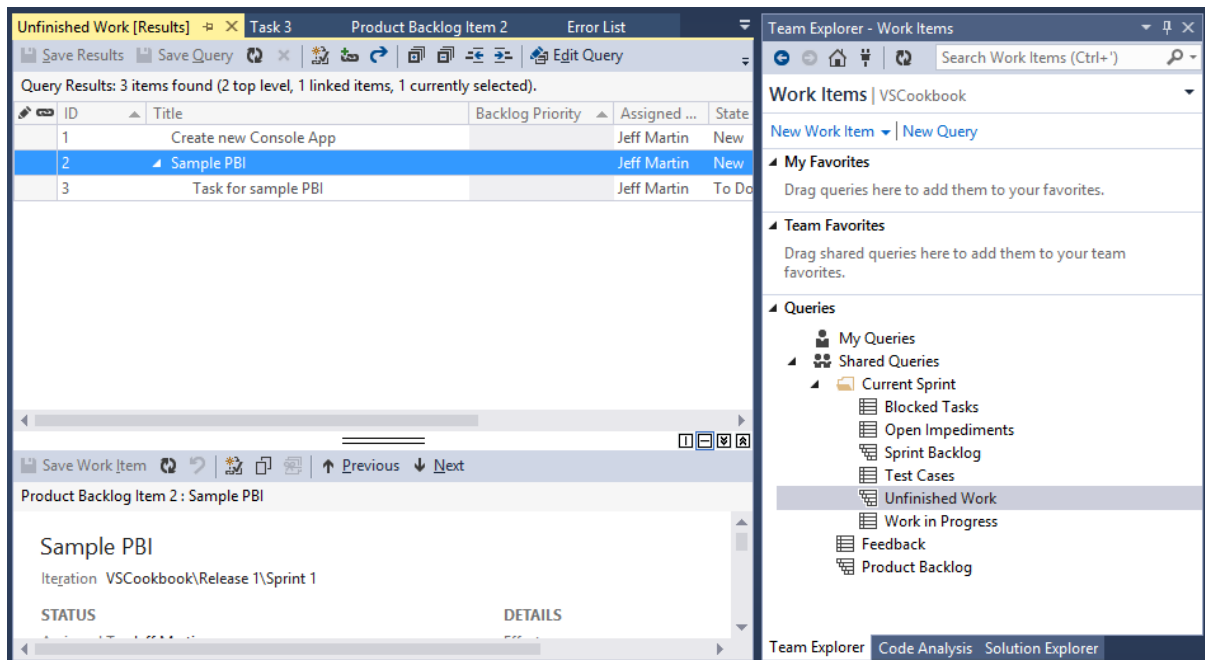
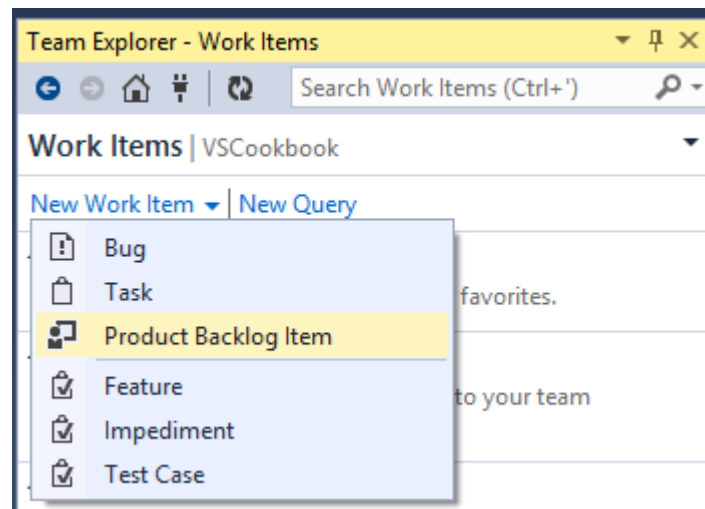
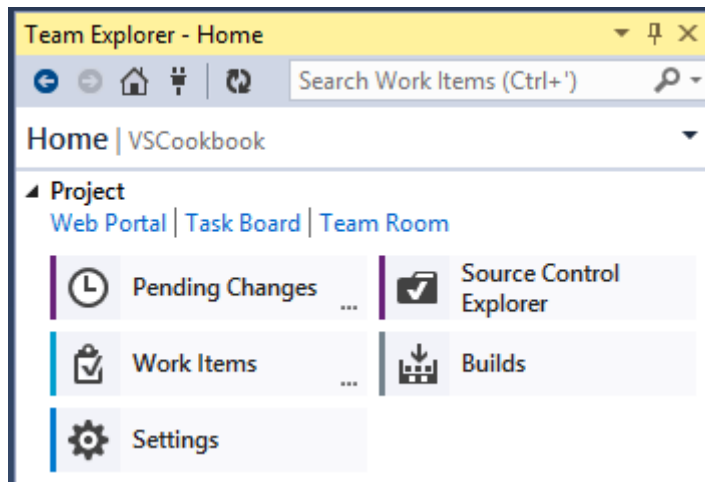
Visual Studio

 [Open in Visual Studio](#) ←
Requires Visual Studio 2013

 [Get Visual Studio](#)
See Visual Studio downloads







Save Work Item | Refresh | Undo | Copy | Paste | Previous | Next

Task 3 (Modified) : Task for sample PBI

Task for sample PBI

Iteration VSCookbook\Release 1\Sprint 1

STATUS

Assigned To Jeff Martin

State **In Progress**

Reason Done

Blocked **In Progress**

Removed

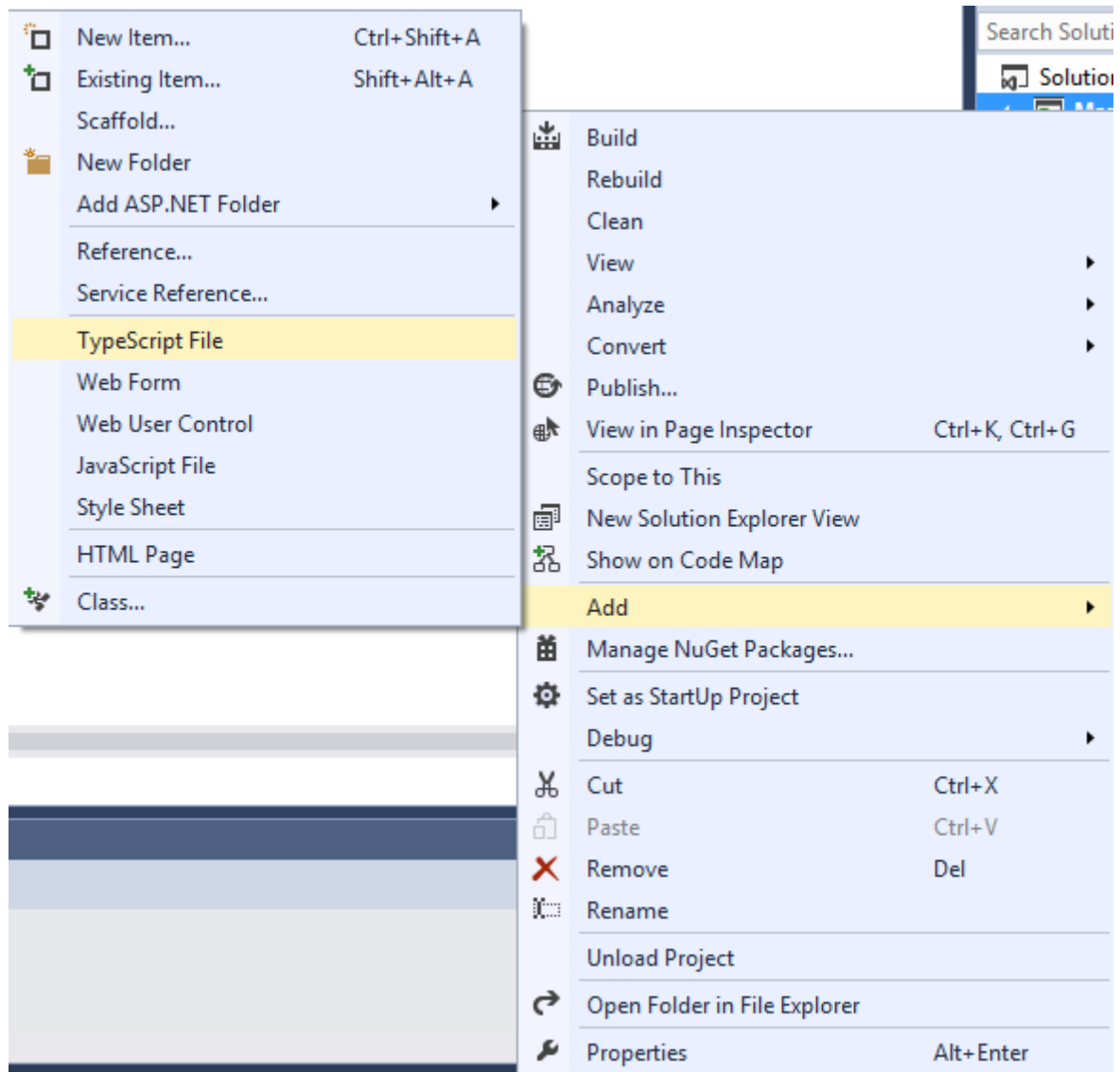
DESCRIPTION To Do

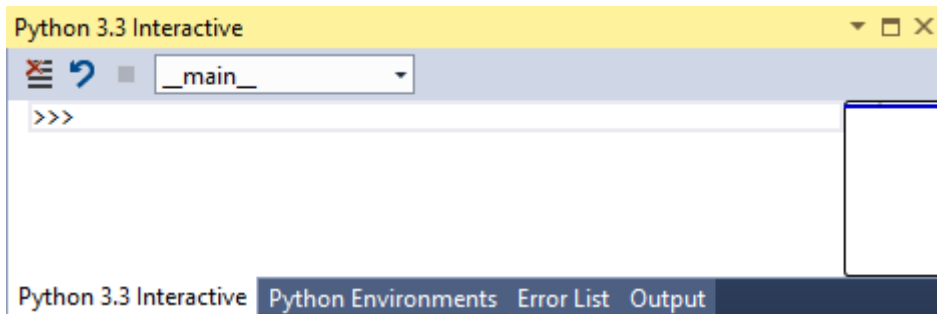
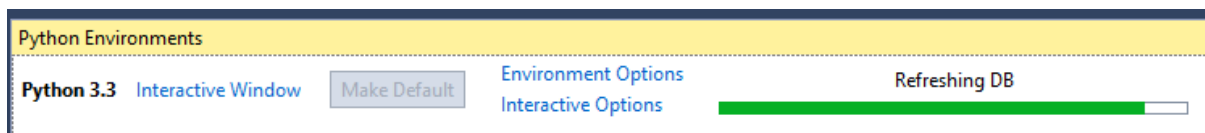
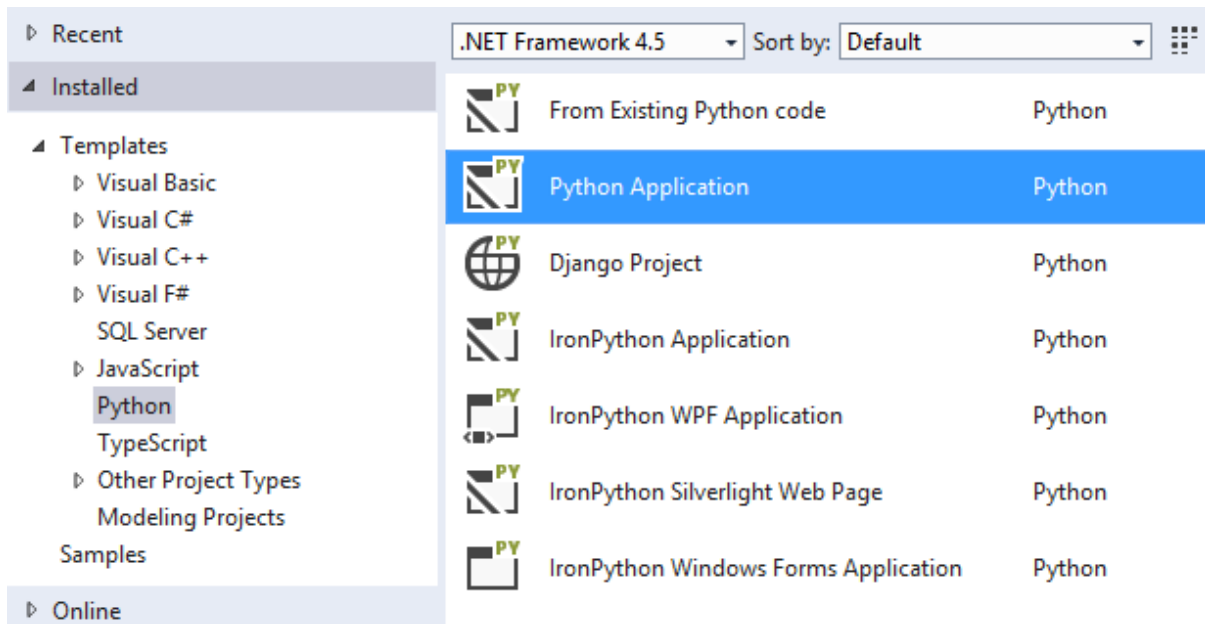
The screenshot shows two panels from Visual Studio. The left panel, titled 'Tracking Changeset 7', displays a table with the following data:

ID	Work Item...	Title
3	Task	Task for sample PBI

A red arrow points from the 'Task for sample PBI' row in the table to the 'Add Work Item by ID' dropdown menu in the right panel. The right panel, titled 'Team Explorer - Pending Changes', shows the 'Pending Changes | VSCookbook' section with a 'Check In' button, a 'Shelve' dropdown, and an 'Actions' dropdown. Below this, there is a 'Comment' section with a text box containing 'Completed work item.' and a 'Related Work Items (1)' section with a 'Queries' dropdown and the 'Add Work Item by ID' dropdown menu. The dropdown menu is open, showing '3 - Task for sample PBI' and a 'Resolve' button.

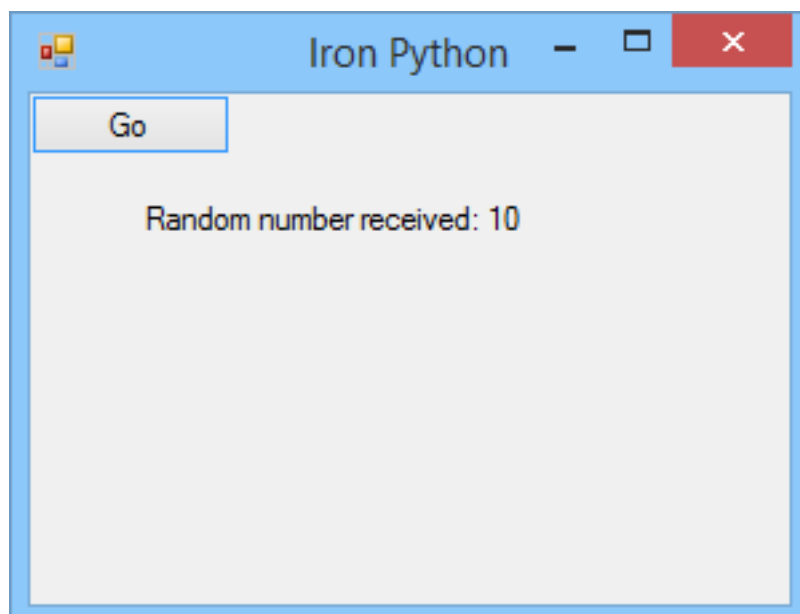
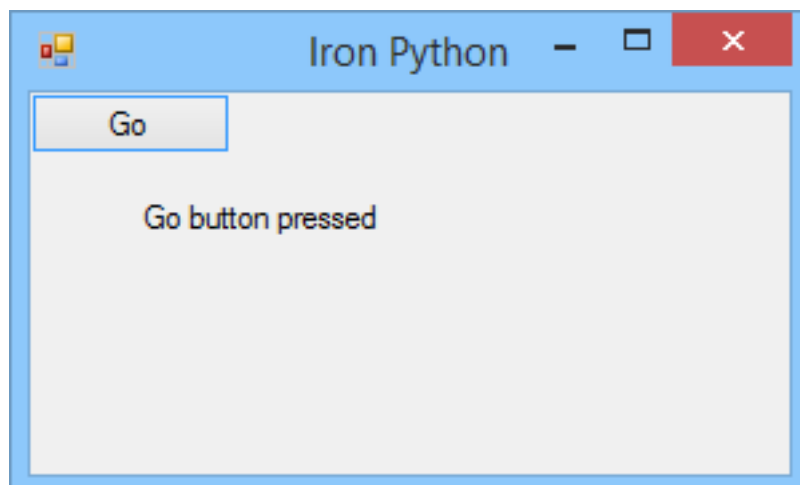
Chapter 9: Languages

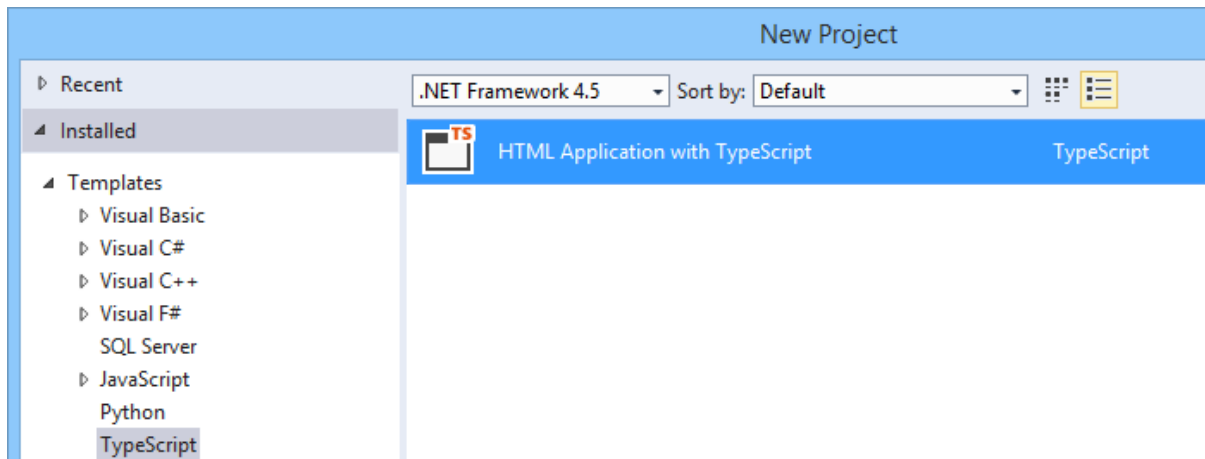




```
print('Hello World')
a=20
b=80
print("Results: " + (b+a))
```

- Refactor
- Remove Imports
- Run Tests Ctrl+R, T
- Debug Tests Ctrl+R, Ctrl+T
- Go To Definition F12
- Find All References Shift+F12
- Breakpoint
- Run To Cursor Ctrl+F10
- Run Flagged Threads To Cursor
- Send to Interactive Ctrl+E, Ctrl+E**





http://localhost:2161/ - Original Source

```
File Edit Format
1 <!DOCTYPE html>
2
3 <html lang="en">
4 <head>
5   <meta charset="utf-8" />
6   <title>TypeScript HTML App</title>
7   <link rel="stylesheet" href="app.css" type="text/css" />
8   <script src="app.js"></script>
9 </head>
10 <body>
11   <h1>TypeScript HTML App</h1>
12
13   <div id="content"></div>
14 </body>
15 </html>
```

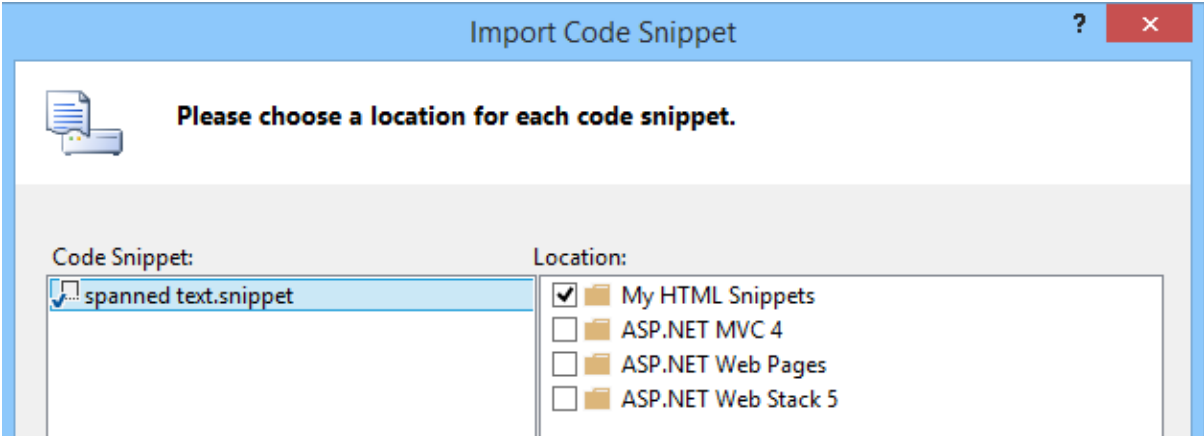
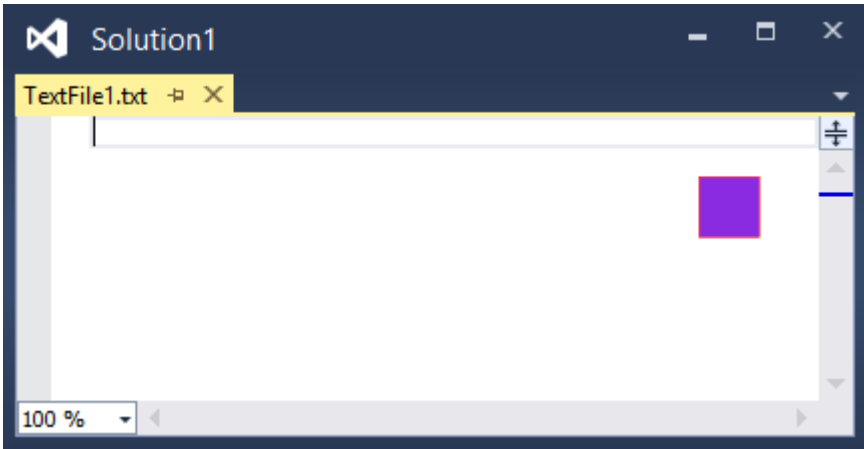
```
greeter.|
  element (property) Greeter.element: HTMLElement
  span
  start
  stop
  timerToken
```

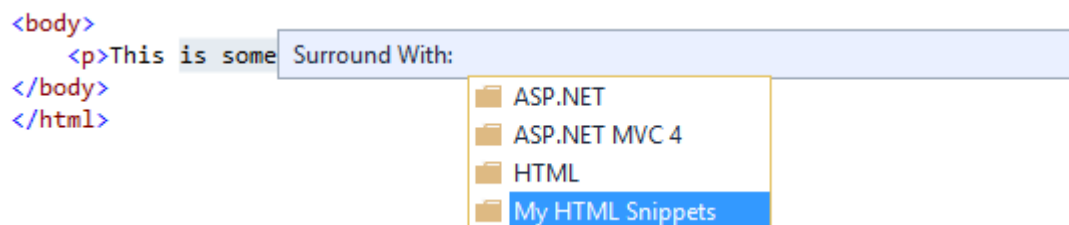
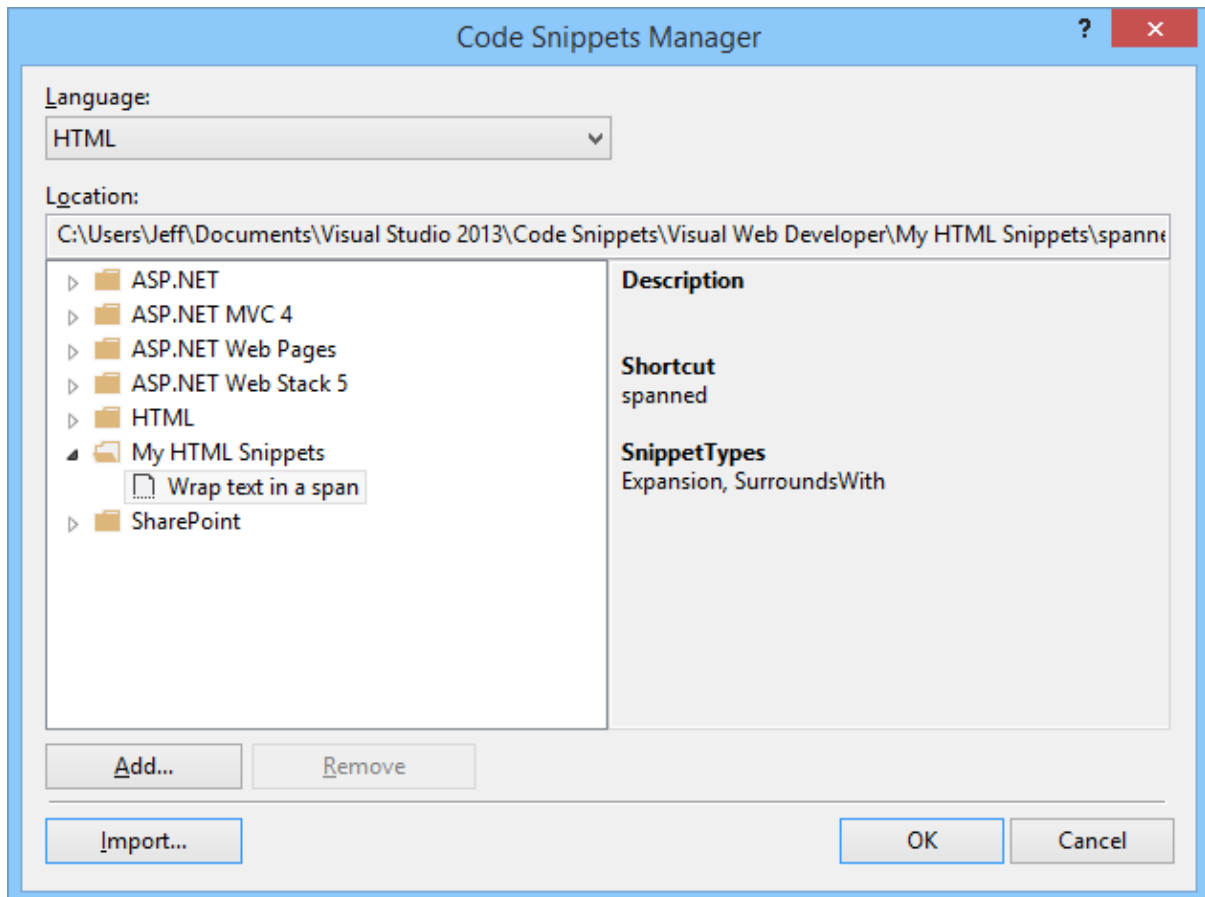
```
var greeter = new Greeter(e1);
greeter.element = 10.00;
```

Cannot convert 'number' to 'HTMLElement':
Type 'Number' is missing property 'onmouseleave' from type 'HTMLElement'.

```
var greeter = new Greeter(e1);
greeter.element = 10.00;
greeter.start();
```

Appendix: Visual Studio Medley







The Project Assistant will guide you through the process of building your installation. You can use the Project Assistant to create a basic installation, or to build the foundation for an advanced installation. To access all the features and all the power of InstallShield, use the Installation Designer.

Installation Requirements Installation Architecture Installation Interview

Installation Architecture

NewFeature1

Welcome to the Project Assistant

Application Files Application Shortcuts Application Registry

Click Home to return to this page. Click Next to get started using the Project Assistant.

Application Information Installation Requirements Installation Architecture Application Files Application Shortcuts Application Registry Installation Interview

Use this page to add your application files to the installation. The directories in the destination tree represent how your application look when it is installed on to your customer's machine.

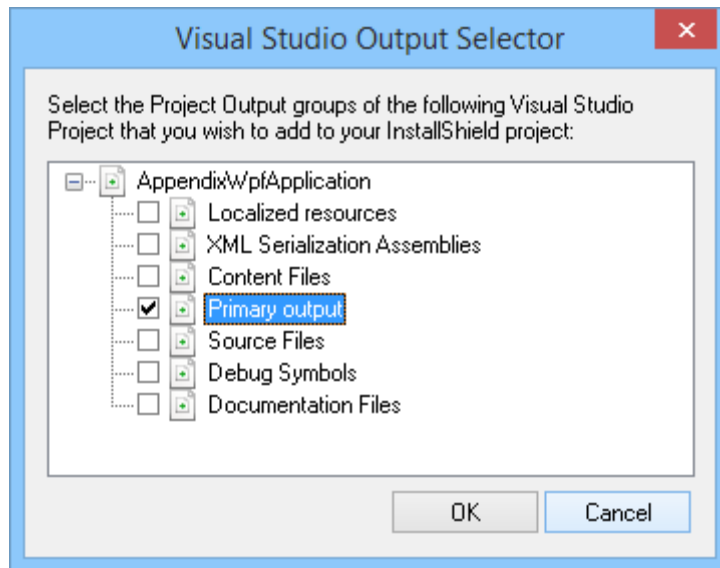
All Application Data

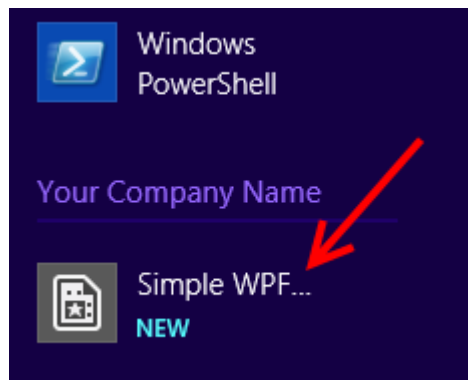
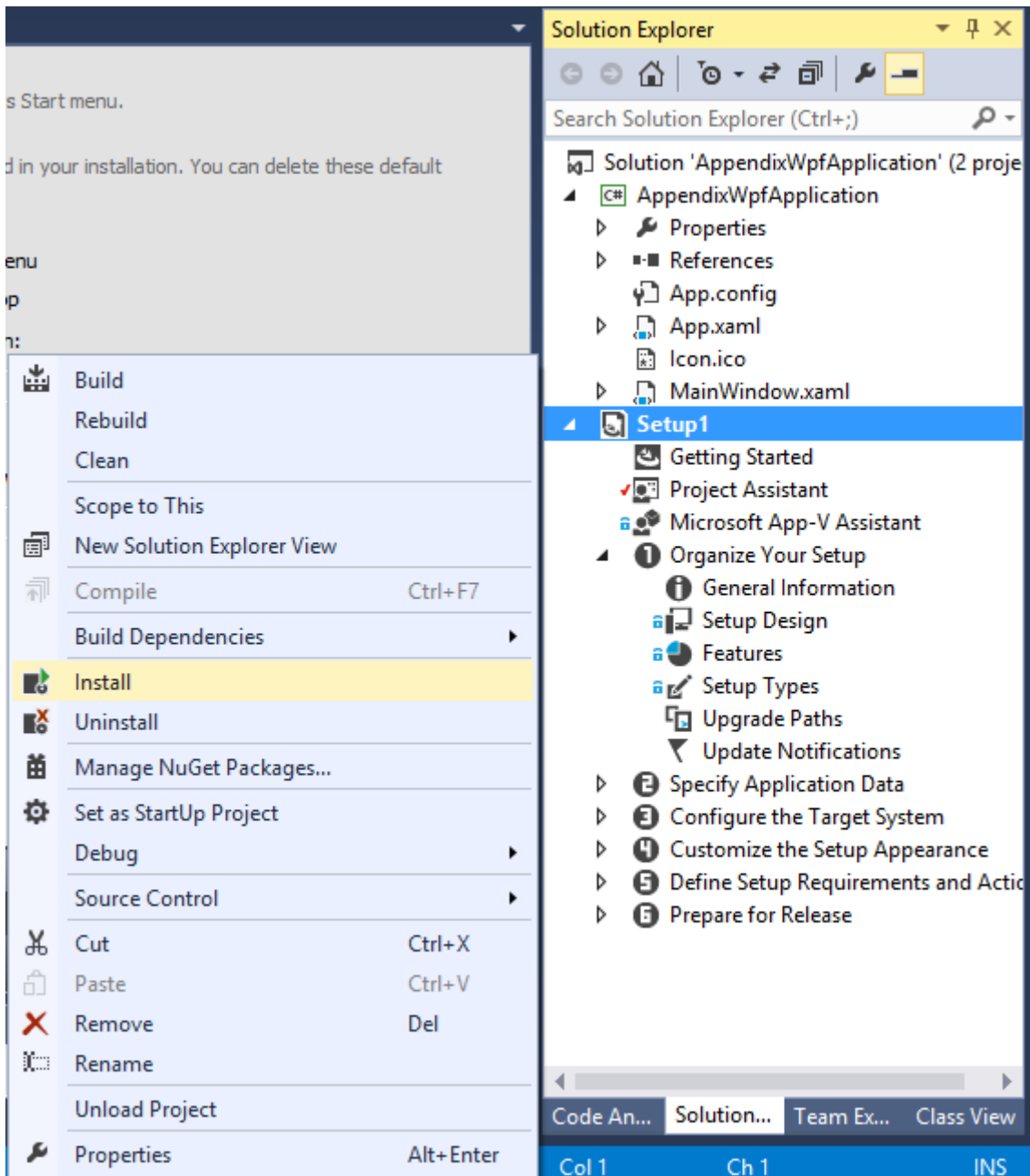
Name	Size	Link To	Modified
------	------	---------	----------

Add Project Outputs

Add Files

Add Folders







Associate Your App with the Windows Store

You can associate your app with the Windows Store and Visual Studio will automatically download the following values to your local app manifest:

- Package Display Name
- Package Name
- Publisher ID
- Publisher Display Name
- Version

After these values are inserted in the manifest, you can test various purchase and notification scenarios.

To associate your app with the Store, you must sign in to a Store account with a Microsoft account. For more information about the Store and Store association, click [here](#).