XBAP Script Interop

Features added in WPF 4

BrowserInteropHelper.HostScript

- Invoke script from .NET code

- Pass .NET objects to script

- Access script objects from .NET

- Script events and callbacks

pluralsight
see what you can learn

Hosting the XBAP

```
<iframe src="XBapDemo.xbap" class="xbapFrame" />
```

```
dynamic script = BrowserInteropHelper.HostScript;
if (script != null)
{
    ...
}
```

Invoking Script from Code

```javascript
function SomeScriptMethod(inputValue1, inputValue2)
{
    var myElement = document.getElementById("myElement");
    myElement.innerText = "First: " + inputValue1 +
                                    ", second: " + inputValue2;

}
```

```csharp
dynamic script = BrowserInteropHelper.HostScript;
if (script != null)
{
    script.SomeScriptMethod("Hello", 42);
}
```

Passing .NET Objects to Script

```csharp
[ComVisible(true)]
public class MyData
{
    public string Foo { get; set; }

    public int Bar;
}
```

```csharp
dynamic data = new ExpandoObject();
data.Foo = "Hello";
data.Bar = 42;
script.SomeScriptMethod(data);
```

Accessing Script Objects from .NET

```javascript
function ReturnSomething()
{
    return { Foo: "Hello", Bar: 42 };
}
```

```csharp
dynamic jsObject = script.ReturnSomething();
string foo = jsObject.Foo;
int bar = jsObject.Bar;
```

Methods and Events

```
function AcceptMethod(methodArg) {
    var result = methodArg(42);
    ...
```

```
Func<int, string> callback =
    (i) => "Value: " + i;
script.AcceptMethod(callback);
```

```
function CallMethod(obj) {
    var result = obj.MyMethod(42);
    ...
```

```
[ComVisible(true)]
public class CallbackClass {
  public string MyMethod(int arg) {
      return "Value: " + arg;
  }
}
...
script.CallMethod(
    new CallbackClass());
```

Default Methods

```javascript
function AcceptMethod(methodArg) {
    var result = methodArg(42);

    ...
```

```csharp
[ComVisible(true)]
public class CallbackClass {

  [DispId(0)]
  public string MyMethod(int arg) {
      return "Value: " + arg;
  }
}
...
script.CallMethod(
    new CallbackClass());
```

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