

Rocking with WPF & WCF

WPF

- XAML
- Dependency Properties
- Routed Events
- Routed Commands
- Control Composition
- Animation & Triggers
- Styles & Control Templates
- Flow Documents
- Totally Scalable Graphics
- Great Architecture

WCF

- Create the **Service Contract**
- Create the **Server**
 - **Implement** the Service Contract
 - **Run** the Server
- Create the **Client**

Create a Service Contract

- Reference System.ServiceModel
- Create an Interface
- [ServiceContract] on interface
- [OperationContract] on methods

```
using System;
using System.ServiceModel;

[ServiceContract (Namespace="http://Acme")]
public interface IRoadRunnerCatcher2000
{
    [OperationContract]
    void LightFuse();

    [OperationContract]
    int PushBoulderOverCliff(double force);

    [OperationContract]
    double GoRocketSkatesGo(int countdown);

    [OperationContract]
    bool DropAnvil(double weight);

    [OperationContract]
    int PaintHole(int radius, bool onWall);
}
```

Questions ?

Implement the Service Contract

```
using System;
using System.ServiceModel;

[ServiceContract(Namespace="http://Acme")]
public interface IRoadRunnerCatcher2000
{
    [OperationContract]
    void LightFuse();

    [OperationContract]
    int PushBoulderOverCliff(double force);

    [OperationContract]
    double GoRocketSkatesGo(int countdown);

    [OperationContract]
    bool DropAnvil(double weight);

    [OperationContract]
    int PaintHole(int radius, bool onWall);
}
```

Server

```
public class RoadRunner2000: IRoadRunnerCatcher2000 {
    public void LightFuse() {
        new Fuse().Light();
    }

    public int PushBoulderOverCliff(double force) {
        return new Boulder().Push(force);
    }

    public double GoRocketSkatesGo(int countdown) {
        System.Threading.Thread.Sleep(countdown * 1000);
        return new RocketSkates().GoGo();
    }

    public bool DropAnvil(double weight) {
        return new Anvil(weight).Drop();
    }

    public int PaintHole(int radius, bool onWall) {
        return 0; // TODO: Implement this!
    }
}
```

Contract

Questions ?

Run the Service

- Configuration
- Hosting
- Opening

Let's Dive In