

# Dezvoltare de aplicatii web cu Visual Studio Orcas

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# Visual Studio Orcas

- VS2005.next()
- Ofera suport pentru:
  - .NET 2.0
  - .NET 3.0 (W\*F)
  - .NET 3.5 si C# 3.0
  - ASP.net AJAX
- Sunt disponibile inclusiv versiunile Express (beta1)

# Demo

XML + XSD + XSLT

# Data Access In APIs Today

```
SqlConnection c = new SqlConnection(...);
c.Open();
SqlCommand cmd = new SqlCommand(
    @"SELECT c.Name, c.Phone
      FROM Customers c
      WHERE c.City = @p0"
);
cmd.Parameters.AddWithValue("@p0", "London");
DataReader dr = c.Execute(cmd);
while (dr.Read()) {
    string name = dr.GetString(0);
    string phone = dr.GetString(1);
    DateTime date = dr.GetDateTime(2);
}
dr.Close();
```

**Queries in quotes**

**Arguments  
loosely bound**

**Results loosely  
typed**

**Compiler  
cannot help  
catch mistakes**

# Data Access with LINQ

```
public class Customer
{
    public int Id;
    public string Name;
    public string City;
    public string Phone;
}
```

**Classes describe data**

---

```
GridView1.DataSource = from customer in db.Customers
                        where customer.City == "London"
                        select customer;
```

**Query is natural part of the language**

```
GridView1.DataBind();
```

**The compiler provides intellisense and type-checking**

# LINQ Architecture

C#

VB

Others...

.Net Language Integrated Query (LINQ)

LINQ enabled data sources

LINQ enabled ADO.NET

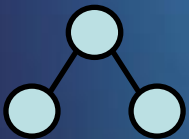
LINQ  
To Objects

LINQ  
To Datasets

LINQ  
To SQL

LINQ  
To Entities

LINQ  
To XML



Objects



Relational

```
<book>  
  <title/>  
  <author/>  
  <price/>  
</book>
```

XML

# Demo

## LINQ

Q & A

# Resurse

- Visual Studio future versions
  - <http://msdn2.microsoft.com/en-us/vstudio/aa700830.aspx>
- Download Visual Studio Orcas beta1
  - <http://msdn2.microsoft.com/en-us/vstudio/aa700831.aspx>
- <http://www.netfx3.com/>
- <http://ajax.asp.net/>