

#### Introduction Introduction (continued) 1 First introduced in June 2000 1 Selling Points: • Interpolation of programs written in different programming languages 1 What is .NET? Microsoft's definition: • The .NET Framework is a development and • Extensive libraries to simplify common execution environment that allows different development work programming languages & libraries to work ASP.NET and Web Services easily implemented like any applications together seamlessly to create Windows-based applications that are easier to build, manage, 1 Why the name .NET? deploy, and integrate with other networked systems. • No special meaning...

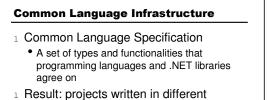
#### C#

- 1 A new language designed by Microsoft to work with .NET
- 1 Based on C++
- 1 Like Java

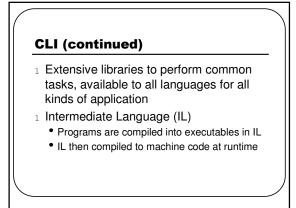
# Some comparisons to Java

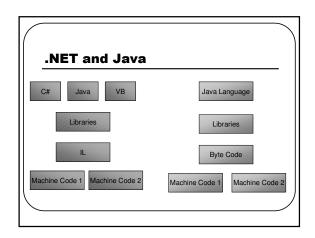
#### 1 Similarities

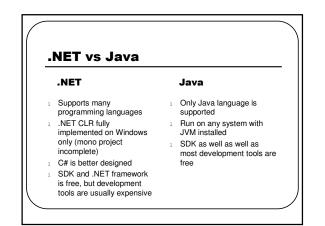
- Garbage Collection
- Interfaces
- Everything belongs to a class
- 1 Differences
  - Properties (vs. get/set functions)
  - Enumerators
  - For-each loop



- languages can be linked together
- 1 .NET languages:
  - VB, Java, C++, Javascript, etc







## ASP.NET

- 1 Web Development Platform
- 1 Compiled program instead of scripting
- 1 Objected Oriented Approach
- 1 Control and Event based
- 1 Extensive libraries

# Web Services RPC over Internet Provide functions through XML messaging system .NET platform makes it easy to create web services Create a web service much like you do an ASP.NET page

# .NET 2.0

- ${\scriptstyle 1}\,$  To be released this year (around June)
- 1 Some new features:
  - C#: Generics, Iterators, etc
  - ASP.NET: more controls, master page
  - Visual Studio .NET: more user friendly

### Demo

- 1 Projects with different languages
- ${\scriptstyle 1}\,$  Consuming the Google Web Service
- $_{\mbox{\scriptsize 1}}$  Developing a simple Web Service