

Introduction to Visual Studio .NET

Table of Contents

INTRODUCTION	INTRO-1
A Few Words About This Courseware	INTRO-2
World-Class Courseware Taught by World-Class Instructors	INTRO-2
What We Expect of You	INTRO-2
What You'll Get Out of this Training	INTRO-2
Intended Audience	INTRO-3
Courseware Conventions	INTRO-3
The Practice Files	INTRO-4
Installing the Practice Files	INTRO-4
What's on the Course CD?	INTRO-4
Technical Requirements for the Course	INTRO-6
About the Author	INTRO-7
INTRODUCING .NET	1-1
A Brief History of Windows Development	1-2
Making Programming Easier	1-2
What's Wrong with Traditional Windows Development?	1-4
.NET: The Next Generation	1-6
Components of a .NET Application	1-8
Components	1-8
Smart Clients	1-9
XML Web Services	1-9
.NET Servers	1-10
Development Tools	1-12
Migrating Existing Applications	1-13
Migration Issues	1-13
Migration Strategies	1-15
THE .NET FRAMEWORK	2-1
.NET Framework Class Library	2-2
Framework Class Library	2-2
Everything Is an Object	2-5
What about the Win32 API?	2-6
.NET Architecture	2-10
Common Language Specification	2-11

Common Language Runtime	2-11
Code Execution Management.....	2-14
Languages	2-18
Deployment.....	2-45
XCopy Deployment:.....	2-45
Visual Studio .NET Setup Projects	2-45
Tools.....	2-48
THE .NET STANDARDS	3-1
Web Standards	3-2
XML and Related Specifications	3-2
DOM.....	3-14
HTML and HTTP	3-18
Web Services Standards	3-21
Invoking Web Services: SOAP	3-22
Describing Web Services with WSDL	3-24
Discovering Web Services: UDDI	3-26
Web Services Enhancements.....	3-27
Language and Infrastructure Standards	3-30
JavaScript and ECMAScript.....	3-30
C#	3-30
Common Language Infrastructure	3-31
VISUAL STUDIO .NET	4-1
.NET and Visual Studio .NET	4-2
The Development Environment	4-4
A Quick Tour of the IDE	4-4
Other Design Tools	4-12
Building a .NET Project.....	4-16
Designers for Different Projects	4-16
Templates	4-23
APPLICATIONS: THE .NET PARADIGMS	5-1
Building Distributed .NET Applications	5-2
The Northwind Sample Application.....	5-3
Data Access Layer.....	5-5
Data Access with ADO.NET	5-5
The Northwind Data Access Layer	5-6
Business Object Layer.....	5-14
The Northwind Business Objects.....	5-14

Web User Interface with ASP.NET	5-22
ASP.NET Web Forms: The New Web Paradigm	5-22
The Northwind Customer Interface	5-24
Desktop User Interface with Windows Forms	5-33
Windows Forms: The New Desktop Paradigm	5-33
Building WinForms Applications	5-33
The Northwind Customer Interface	5-35
.NET EXPOSED	6-1
.NET Framework	6-2
Security	6-2
Internet Protocol Version 6	6-5
Enterprise Instrumentation Framework	6-8
Deployment and Version Compatibility	6-14
Deployment	6-14
Side-by-Side Execution	6-20
Multiple Framework Versions	6-21
INDEX	INDEX-1

