

visual basic 2010 how to program

Visual Basic 2010 How to Program: A Complete Guide for Beginners and Beyond

visual basic 2010 how to program is a question that many aspiring developers ask when they want to dive into the world of Windows application development. Visual Basic 2010 (VB 2010) remains a popular choice for programmers due to its straightforward syntax, integrated development environment, and powerful features that simplify building graphical user interfaces and handling backend logic. Whether you're a beginner trying to learn your first programming language or a developer looking to refresh your knowledge, this guide will walk you through the essentials of programming in Visual Basic 2010.

Getting Started with Visual Basic 2010

Before writing any code, it's important to understand the environment where you'll be programming. Visual Basic 2010 is part of the Microsoft Visual Studio 2010 suite, which offers a rich Integrated Development Environment (IDE) designed to help developers create applications quickly and efficiently.

Installing Visual Studio 2010

To begin programming in VB 2010, you need to install Visual Studio 2010. Microsoft offered different editions, including Express (free), Professional, and Ultimate. The Express edition is perfect for beginners and hobbyists because it provides all the necessary tools without the complexity of the full suite.

Once installed, launch Visual Studio 2010 and create a new project by selecting "New Project" from the File menu. Choose "Windows Forms Application" under the Visual Basic templates. This template is ideal for building desktop applications with graphical user interfaces (GUIs).

The Visual Basic IDE Overview

The Visual Studio IDE for VB 2010 features several key components:

- **Solution Explorer:** Manages your project files and resources.
- **Properties Window:** Allows you to view and modify the properties of controls and forms.
- **Toolbox:** Contains ready-to-use controls like buttons, text boxes, and labels.
- **Code Editor:** Where you write and edit your VB code.
- **Designer View:** Provides a visual interface for designing forms and placing controls.

Familiarizing yourself with these elements helps streamline your workflow as you develop applications.

Understanding the Basics of Visual Basic 2010 Programming

Visual Basic 2010 is known for its readability and simplicity, making it an excellent first language. The syntax is verbose and English-like, which removes much of the complexity found in other languages.

Variables and Data Types

Like any programming language, VB 2010 uses variables to store data. Declaring variables is straightforward:

```
```\vb
Dim message As String
Dim number As Integer
Dim isActive As Boolean
```\
```

VB 2010 supports a variety of data types, such as Integer, Double, String, Boolean, and more. Understanding these types is crucial because it affects how data is stored and manipulated.

Writing Your First Program

A classic beginner program is displaying a message box. Here's how you do it in VB 2010:

```
```\vb
MessageBox.Show("Hello, Visual Basic 2010!")
```\
```

To run this, you'd typically add a button to your Windows Form and double-click it to generate an event handler. Inside the button's click event, place the above code. When you run the program and click the button, a message box will appear.

Working with Controls and Events

One of the most powerful features of Visual Basic 2010 is its event-driven programming model. This allows your application to respond to user actions like clicks, key presses, and mouse movements.

Adding Controls to Your Form

Controls like buttons, labels, text boxes, and combo boxes can be dragged and dropped from the Toolbox onto your form. Each control has properties that you can set, such as `Text`, `Name`, `Size`, and `Color`.

Handling Events

Events are at the heart of user interaction. For example, when a user clicks a button, the `Click` event is fired. You can write code to respond to these events by double-clicking the control in the Designer, which generates an event handler in the code editor.

Example of a button click event handler:

```
``vb
Private Sub btnGreet_Click(sender As Object, e As EventArgs) Handles
btnGreet.Click
    MessageBox.Show("Welcome to Visual Basic 2010 programming!")
End Sub
``
```

This event-driven nature makes VB 2010 suitable for building interactive desktop applications.

Understanding Control Structures and Logic in Visual Basic 2010

Mastering control structures like loops and conditionals is essential in programming, and Visual Basic 2010 makes these constructs easy to read and write.

If...Then...Else Statements

Conditional statements allow your program to make decisions:

```
``vb
Dim age As Integer = 18
If age >= 18 Then
    MessageBox.Show("You are an adult.")
Else
    MessageBox.Show("You are a minor.")
End If
``
```

These statements help control the flow of your program based on certain conditions.

Loops: For, While, and Do Until

Loops enable you to repeat actions multiple times. For example:

```
``vb
For i As Integer = 1 To 5
    MessageBox.Show("Iteration " & i)
Next
``
```

Alternatively,

```
```\vb
Dim count As Integer = 1
While count <= 5
 MessageBox.Show("Count is " & count)
 count += 1
End While
```
```

Loops are essential when performing repetitive tasks like processing data or generating lists dynamically.

Working with Functions and Subroutines

VB 2010 allows you to organize your code into reusable blocks called functions and subroutines (subs).

Subroutines

Subroutines perform tasks but do not return values. Here's an example:

```
```\vb
Sub ShowGreeting()
 MessageBox.Show("Hello from a subroutine!")
End Sub
```
```

You can call this subroutine anywhere in your code by simply writing ``ShowGreeting()``.

Functions

Functions return values and are useful when you need to calculate and retrieve information.

```
```\vb
Function AddNumbers(a As Integer, b As Integer) As Integer
 Return a + b
End Function
```
```

You can use this function like so:

```
```\vb
Dim result As Integer = AddNumbers(5, 10)
MessageBox.Show("The sum is " & result)
```
```

Using functions and subs not only makes your code cleaner but also easier to maintain and debug.

Working with Data: Variables, Arrays, and Collections

Handling data efficiently is key in any programming language. Visual Basic 2010 offers several ways to store and manipulate collections of data.

Arrays

Arrays are fixed-size collections of elements:

```
```vb
Dim numbers(4) As Integer
numbers(0) = 10
numbers(1) = 20
'... and so on
```
```

You can loop through arrays to process each element.

Lists and Collections

For more flexibility, VB 2010 supports generic collections like `List(Of T)`:

```
```vb
Dim fruits As New List(Of String)
fruits.Add("Apple")
fruits.Add("Banana")
fruits.Add("Cherry")
```
```

Lists can grow dynamically, making them ideal for scenarios where the number of items is not known upfront.

Debugging and Best Practices in Visual Basic 2010 Programming

Learning how to debug your programs is just as important as writing the code itself.

Using Breakpoints and the Debugger

Visual Studio 2010 offers powerful debugging tools. You can set breakpoints in your code to pause execution and inspect variables. This helps you understand the program's flow and identify where things might be going wrong.

Writing Clean and Maintainable Code

Even when learning, adopting good coding habits pays off. Some tips include:

- Use meaningful variable and subroutine names.
- Comment your code to explain complex logic.
- Avoid hardcoding values; use constants or configuration settings.
- Break down large procedures into smaller, manageable functions.

These practices make your Visual Basic 2010 projects easier to read and maintain.

Exploring Advanced Features: Object-Oriented Programming in Visual Basic 2010

While VB 2010 is great for beginners, it also supports advanced programming concepts such as object-oriented programming (OOP).

Classes and Objects

You can define your own classes to model real-world entities:

```
```\vb
Public Class Person
Public Property Name As String
Public Property Age As Integer

Public Sub New(name As String, age As Integer)
Me.Name = name
Me.Age = age
End Sub

Public Sub Greet()
MessageBox.Show("Hello, my name is " & Name)
End Sub
End Class
```
```

Creating objects from classes allows you to encapsulate data and behavior, leading to modular and reusable code.

Inheritance and Polymorphism

VB 2010 supports inheritance, enabling you to create hierarchies of classes that share common features but also extend or override functionality. This is especially useful in larger applications where code reuse and structure become critical.

Resources to Deepen Your Visual Basic 2010 Programming Skills

As you continue exploring visual basic 2010 how to program, leveraging additional learning resources will accelerate your progress.

- **Microsoft Documentation:** Provides official guides and references.
- **Online Tutorials and Courses:** Websites like Udemy, Pluralsight, and YouTube offer step-by-step tutorials.
- **Community Forums:** Stack Overflow and MSDN forums are excellent places to ask questions and see real-world problem-solving.
- **Books:** Titles like "Programming Visual Basic 2010" by Jesse Liberty offer comprehensive insights.

Practicing regularly by building small projects, such as calculators, contact managers, or simple games, can help solidify your understanding.

Visual Basic 2010 remains a friendly yet powerful language to start programming, offering an ideal balance between simplicity and capability. With the right approach and tools, anyone interested in Windows development can master visual basic 2010 how to program and create functional, user-friendly applications.

Frequently Asked Questions

How do I create a simple Windows Forms application in Visual Basic 2010?

To create a simple Windows Forms application in Visual Basic 2010, open Visual Studio 2010, select File > New > Project, choose 'Windows Forms Application' under Visual Basic templates, name your project, and click OK. You can then drag and drop controls like buttons and labels onto the form and write event-handling code to define their behavior.

What are the basic data types supported in Visual Basic 2010?

Visual Basic 2010 supports several basic data types including Integer, Long, Double, Decimal, String, Boolean, Char, and Date. These data types are used to store different kinds of data such as whole numbers, floating-point numbers, text, true/false values, characters, and dates.

How can I handle button click events in Visual Basic 2010?

To handle button click events in Visual Basic 2010, double-click the button control on your Windows Form designer. This will generate a Button_Click event handler method in your code. Inside this method, you can write the code that should execute when the button is clicked.

How do I connect a Visual Basic 2010 application to a database?

In Visual Basic 2010, you can connect to a database using ADO.NET. First, import the `System.Data.SqlClient` namespace, create a `SqlConnection` object with your connection string, open the connection, create `SqlCommand` objects to execute SQL queries, and use `SqlDataReader` or `SqlDataAdapter` to retrieve data.

What debugging tools are available in Visual Basic 2010?

Visual Basic 2010 provides various debugging tools including breakpoints, step into/over/out functions, watch windows, immediate window, and call stack. These tools help you inspect variables, follow program execution, and diagnose issues within your code.

How can I deploy a Visual Basic 2010 application to other computers?

To deploy a Visual Basic 2010 application, use the 'Publish' feature in Visual Studio. Go to `Build > Publish [ProjectName]`, follow the wizard to specify the publish location and settings. This creates a `ClickOnce` deployment which can be installed on other machines. Alternatively, create an installer project for more control over installation.

Additional Resources

Visual Basic 2010 How to Program: A Comprehensive Guide for Developers

visual basic 2010 how to program remains a relevant inquiry for developers seeking to understand the fundamentals and nuances of this programming language, especially within the context of legacy systems or educational environments. Visual Basic 2010 (VB 2010), a product of Microsoft's Visual Studio 2010 suite, offers a powerful yet approachable platform for creating Windows applications, web services, and even database-driven software. This article delves into the intricacies of Visual Basic 2010, exploring its programming environment, core features, and practical approaches to mastering the language.

Understanding the Visual Basic 2010 Environment

Visual Basic 2010 is an evolution of the Visual Basic language, designed to integrate seamlessly within the Microsoft .NET Framework 4.0. This integration allows developers to leverage a rich class library, robust runtime, and enhanced interoperability with other .NET languages such as C# and F#. For those asking "visual basic 2010 how to program," the first step is familiarizing oneself with the Visual Studio 2010 IDE (Integrated Development Environment), which serves as the primary workspace for coding, debugging, and deploying applications.

The Visual Studio 2010 IDE is notable for its improved UI, IntelliSense code completion, and integrated debugging tools that simplify the development

process. The drag-and-drop interface for designing forms enables rapid development of graphical user interfaces (GUIs), making it particularly attractive for beginners and professionals alike. Additionally, the introduction of multi-targeting support allows developers to build applications compatible with different versions of the .NET Framework, enhancing flexibility.

Setting Up Your First Visual Basic 2010 Project

Before diving into coding, setting up the project properly is crucial. Visual Basic 2010 programming starts with creating a new Windows Forms Application within Visual Studio 2010:

1. Launch Visual Studio 2010 and select "New Project."
2. Under the Visual Basic templates, choose "Windows Forms Application."
3. Name your project appropriately and select the desired location for saving files.
4. Click "OK" to generate the initial project structure and open the form designer.

This setup provides a blank canvas where developers can begin designing the user interface by dragging controls such as buttons, text boxes, and labels onto the form. Behind the scenes, Visual Basic 2010 automatically generates event-driven code structures that developers fill with logic.

Core Programming Concepts in Visual Basic 2010

To effectively program in Visual Basic 2010, understanding its core language constructs and programming paradigms is essential. The language is event-driven and object-oriented, supporting encapsulation, inheritance, and polymorphism, albeit with some syntactic differences from other languages.

Variables, Data Types, and Control Structures

Visual Basic 2010 supports a variety of data types, including Integer, String, Boolean, Double, and Date, among others. Declaring variables uses the ``Dim`` statement:

```
```vb
Dim userName As String
Dim userAge As Integer
```
```

Control structures such as ``If...Then...Else``, ``Select Case``, ``For...Next``, and ``While`` loops enable complex decision-making and iteration:

```
```vb
```

```

If userAge >= 18 Then
 MessageBox.Show("User is an adult.")
Else
 MessageBox.Show("User is a minor.")
End If
```

```

The simplicity of these constructs aids beginners in grasping flow control while allowing experienced developers to craft sophisticated logic.

Event Handling and GUI Programming

One of the defining features of Visual Basic is its event-driven nature. When users interact with GUI elements—clicking a button or entering text—events are triggered, and corresponding event handlers execute. For example, handling a button click involves double-clicking the button in the designer, which generates an event handler stub:

```

```vb
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
 Button1.Click
 MessageBox.Show("Button clicked!")
End Sub
```

```

This model promotes responsive interfaces and straightforward mapping between user actions and program responses.

Working with Classes and Objects

Visual Basic 2010 fully supports object-oriented programming. Defining classes allows encapsulation of data and behaviors:

```

```vb
Public Class Person
 Public Property Name As String
 Public Property Age As Integer

 Public Sub New(ByVal name As String, ByVal age As Integer)
 Me.Name = name
 Me.Age = age
 End Sub

 Public Function GetGreeting() As String
 Return "Hello, " & Name
 End Function
End Class
```

```

Instantiating objects and invoking methods follows standard OOP patterns:

```

```vb
Dim p As New Person("Alice", 30)
MessageBox.Show(p.GetGreeting())
```

```

This approach facilitates modular, maintainable codebases.

Advanced Features and Integrations

Beyond basic programming, Visual Basic 2010 offers several advanced features that developers can exploit to enhance application functionality and performance.

LINQ and Data Access

Language Integrated Query (LINQ) support in Visual Basic 2010 allows querying collections with SQL-like syntax, improving readability and efficiency in data manipulation:

```
```\vb
Dim numbers = New List(Of Integer) From {1, 2, 3, 4, 5}
Dim evenNumbers = From num In numbers Where num Mod 2 = 0 Select num
```\
```

This feature is particularly useful when working with databases, XML, or in-memory collections.

Multithreading and Asynchronous Programming

Visual Basic 2010 introduces improved support for multithreading, enabling developers to build responsive applications that perform background operations without freezing the UI:

```
```\vb
Dim worker As New System.ComponentModel.BackgroundWorker()
AddHandler worker.DoWork, AddressOf Worker_DoWork
worker.RunWorkerAsync()

Private Sub Worker_DoWork(sender As Object, e As
System.ComponentModel.DoWorkEventArgs)
' Long-running operation here
End Sub
```\
```

While asynchronous programming became more streamlined in later versions, VB 2010 laid foundational support for concurrent execution.

Deployment and Packaging

After development, deploying Visual Basic 2010 applications requires packaging them with necessary dependencies. The ClickOnce deployment technology integrated into Visual Studio 2010 simplifies this process by enabling easy installation and automatic updates on client machines. Developers can configure deployment settings directly within the IDE, controlling security permissions, update frequency, and prerequisites.

Comparative Perspectives: Visual Basic 2010 Versus Modern Alternatives

In the evolving landscape of programming languages, Visual Basic 2010 occupies a unique position. While it offers a gentle learning curve and tight integration with Windows platforms, modern alternatives like C# and newer versions of Visual Basic (VB.NET 2019 and beyond) provide enhanced language features, improved performance, and better support for cross-platform development.

Developers considering "visual basic 2010 how to program" must weigh the benefits of legacy compatibility and simplicity against the advantages of adopting contemporary languages and frameworks. For instance, C# offers richer syntax, asynchronous programming paradigms with `async/await`, and broader community support, making it a preferred choice for many new projects.

Nonetheless, Visual Basic 2010 remains valuable in educational settings and maintenance scenarios where existing codebases demand familiarity with the environment.

Practical Tips for Mastering Visual Basic 2010 Programming

Mastering Visual Basic 2010 involves more than understanding syntax; it requires practical experience and strategic learning approaches:

- **Explore Sample Projects:** Microsoft and various online platforms provide sample VB 2010 projects that illustrate best practices and common patterns.
- **Utilize Debugging Tools:** Visual Studio 2010 includes powerful debugging features such as breakpoints, watch windows, and immediate execution to troubleshoot code effectively.
- **Leverage Online Communities:** Forums like Stack Overflow and MSDN archives are valuable resources for resolving issues and learning from experienced developers.
- **Understand .NET Framework:** Since VB 2010 is .NET-centric, gaining proficiency in the framework's libraries and capabilities enhances programming efficiency.
- **Practice Event-Driven Design:** Building GUI applications requires a mindset oriented around events and user interactions, which differs from procedural programming.

Adopting these approaches accelerates the learning curve and solidifies competence in Visual Basic 2010 programming.

The journey to proficiency in Visual Basic 2010 hinges on embracing its rich features, understanding its design philosophy, and applying practical coding

techniques. Although newer technologies have emerged, the foundational skills acquired through VB 2010 continue to resonate across many sectors, underscoring its lasting relevance in the programming ecosystem.

Visual Basic 2010 How To Program

visual basic 2010 how to program: Programming in Visual Basic 2010 Jim McKeown, 2010-03-22 This is an introduction to programming using Microsoft's Visual Basic.NET 2010, intended for novice programmers with little or no programming experience or no experience with Visual Basic. The text emphasizes programming logic and good programming techniques with generous explanations of programming concepts written from a non-technical point of view. It stresses input, processing, and output and sequence, selection, and repetition in code development. File I/O and arrays are included. Later chapters introduce objects, event programming, and databases. By taking a slow and steady approach to programming ideas, this book builds new concepts from what the reader has already learned. VB tips and quips inject both humor and insight. The book includes numerous programming examples and exercises, case studies, tutorials, and 'fixing a program' sections for an in-depth look at programming problems and tools. Quizzes and review questions throughout each chapter get students to think about the materials and how to use them. Each chapter has a summary and glossary for extra review. The accompanying website, www.cambridge.org/us/McKeown, has code downloads, I/O, and database files from small, simple files to large files with thousands of records, flowcharts, deskchecks and audits to aid with program design, coding, and debugging; PowerPoint files for every chapter; and hundreds of ideas for programs and projects.

visual basic 2010 how to program: Erfolgreich Visual Basic 2010 programmieren Jürgen Kotz, 2011 Werden Sie Visual Basic 2010-Profi! Das Buch spricht alle Themen an, die bei der täglichen Visual Basic-Programmierung eine Rolle spielen. Alle wichtigen Aspekte von Programmiergrundlagen, Windows Forms und WPF, Datenbankabfragen mit LINQ, ein intensiver Einstieg in die objektorientierte Programmierung mit Visual Basic 2010 sowie der Datenbankszugriff mit Access oder auch SQL Server. Mit der Testsoftware auf DVD können Sie Ihr Wissen überprüfen.

visual basic 2010 how to program: Visual Basic 2010 Paul J. Deitel, Harvey M. Deitel, 2010 Win, Place...Or Die. The apparent heart attack that killed kennel owner Max Turnbull has left seven pups in mourning, and his wife Peg suspecting foul play. But the only evidence is their missing prize pooch--a pedigreed poodle named Beau. Enter Melanie Travis. With her young son happily ensconced in day camp, the thirty-something teacher and single mother is talked into investigating her uncle's death--unofficially, of course. Posing as a poodle breeder in search of the perfect stud, Melanie hounds Connecticut's elite canine competitions, and finds an ally in fellow breeder Sam Driver. But her affection cools when she's put on the scent of Sam's questionable past...and hot on the trail of a poodle-hating neighbor and one elusive murderer who isn't ready to come to heel. For, as Melanie soon discovers, in a championship dog-eat-dog world, the instinct for survival, and winning, can prove fatal. Dog mysteries continue to flourish. A PEDIGREE TO DIE FOR is fascinating. -Mystery Lovers Bookshop News 'A sleek and unusual book.

visual basic 2010 how to program: *Microsoft Visual Basic 2010 Step by Step* Michael Halvorson, 2010-05-12 Your hands-on, step-by-step guide to learning Visual Basic 2010. Teach yourself the essential tools and techniques for Visual Basic 2010-one step at a time. No matter what your skill level, you'll find the practical guidance and examples you need to start building professional applications for Windows and the Web. Discover how to: Work in the Microsoft Visual Studio 2010 Integrated Development Environment (IDE) Master essential techniques-from managing data and variables to using inheritance and dialog boxes Create professional-looking Uis; add visual effects and print support Build compelling Web features with the Visual Web Developer tool Use

Microsoft ADO.NET and advanced data presentation controls Debug your programs and handle run-time errors Use new features, such as Query Builder, and Microsoft .NET Framework For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

visual basic 2010 how to program: Jetzt lerne ich Visual Basic 2010 Peter Monadjemi, Walter Saumweber, 2011 Diese bewährte Einführung zu Visual Basic 2010 richtet sich an Programmiereinsteiger, aber auch an Umsteiger von älteren Visual Basic-Versionen sowie an lernbegierige Fortgeschrittene. Für die Umsetzung der ersten Programme, wie z.B. einen sprechenden Idealgewichtsrechner, benötigen Sie keinerlei Vorkenntnisse. Nach dem Grundlagenteil geht es um spannende Programmierthemen wie das Erstellen von Menüs und Symbolleisten, datenbankgestützte Anwendungen, LINQ to SQL, Multithreading und die Windows Presentation Foundation (WPF). Viele interessante Beispiele sorgen auch im äProfilteilä des Buchs dafür, dass sich Erfolgserlebnisse schnell einstellen. Am Ende wird eine komplexe Windows-Anwendung Schritt für Schritt umgesetzt.

visual basic 2010 how to program: Visual Basic 2010 Essentials Neil Smyth, 2010-09-19 This eBook is intended to be of use to both novices looking to learn Visual Basic, and to those proficient in other languages that plan to cross-train from other languages. The Visual Basic language, combined with Visual Studio, provides a powerful, easy to learn programming environment allowing even the beginner to rapidly create and deploy Windows applications. Visual Basic Essentials begins with instruction on designing forms in Visual Studio including designing menu systems and toolbars and wiring up event procedures. The book then introduces the basic concepts of the Visual Basic language covering concepts such as Visual Basic variable types, looping and flow control. Once the basics are covered, topics such as mutli-dimensional arrays, string handling and file I/O are explained. Finally, more advanced topics such as object oriented programming, database access and graphics drawing are detailed. Liberal use is made of code excerpts providing practical examples of theory in action.

visual basic 2010 how to program: Mastering Microsoft Visual Basic 2010 Evangelos Petroutsos, 2010-04-05 The new edition of the ultimate comprehensive guide to Microsoft Visual Basic Where most VB books start with beginner level topics, Mastering Visual Basic 2010 vaults you right into intermediate and advanced coverage. From the core of the language and user interface design to developing data-driven applications, this detailed book brings you thoroughly up to speed and features numerous example programs you can use to start building your own apps right away. Covers Visual Basic 2010, part of Microsoft's Visual Studio integrated development environment (IDE), which includes C#, C++, Visual Web Developer, and ASP.NET, along with Visual Basic Explains topics in the thorough, step-by-step style of all books in the Mastering series, providing you ample instruction, tips, and techniques Helps you build your own applications by supplying sample code you can use to start development Includes review exercises in each chapter to reinforce concepts as you learn All the books in the Sybex Mastering series feature comprehensive and expert coverage of topics you can put to immediate use. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

visual basic 2010 how to program: Microsoft Visual Basic 2010 Developer's Handbook Klaus Löffelmann, Sarika Purohit, 2011-08-15 Your expert guide to building modern applications with Visual Basic 2010 Take control of Visual Basic 2010—for everything from basic Windows and web development to advanced multithreaded applications. Written by Visual Basic experts, this handbook provides an in-depth reference on language concepts and features, as well as scenario-based guidance for putting Visual Basic to work. It's ideal whether you're creating new applications with Visual Basic 2010 or upgrading projects built with an earlier version of the language. Discover how to: Use Visual Basic 2010 for Windows Forms and Windows Presentation Foundation projects Build robust code using object-oriented programming techniques, such as classes and types Work with events and delegates—and add your own events to custom classes Program arrays, collections, and other data structures in the Microsoft .NET Framework Solve problems quickly and easily using My

namespace in Visual Basic Dive into Microsoft LINQ, including LINQ to XML and LINQ to Entities
Tackle threading, multitasking, and multiprocessor development and debugging

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visual basic 2010 how to program: *Visual Basic 2010 Programmer's Reference* Rod Stephens, 2010-06-17 Visual Basic expert Rod Stephens shows you how to leverage the latest features of VB 2010 Microsoft Visual Basic (VB) is the most popular programming language in the world, with millions of lines of code used in businesses and applications of all types and sizes. The new release of Visual Basic 2010 is tightly integrated with the Windows operating system and the .NET programming environment. Renowned VB authority Rod Stephens provides a comprehensive guide to Visual Basic programming, including the latest enhancements to the VB language and programming environment with Visual Studio 2010 The tutorial is packed with detailed and practical code examples that show readers how to master all of the features of VB. Visual Basic authority Rod Stephens presents a must-have resource on Visual Basic, the most popular programming language in the world Fully covers the newest features of Visual Basic 2010, such as array literals and initializers, collection initializers, implicit line continuation, Lambda expressions, and more Features extensively revised and tested code to ensure compliance with the latest release With this essential resource, you'll be able to quickly review the details of important programming, objects, properties, methods, and events. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

visual basic 2010 how to program: Stephens' Visual Basic Programming 24-Hour Trainer Rod Stephens, 2011-02-08 Unique book-and-DVD package for novice Visual Basic programmers Start from scratch, and even if you don't know a thing about Visual Basic, you soon will with this thorough introduction to Visual Basic programming. Using easy-to-follow lessons and step-by-step instruction, this practical book teaches you concepts and hands-on techniques, then reinforces your learning with video screencasts and supplemental materials. Follow the exercises, then access the Try It section on the DVD, and watch as well-known VB authority and author Rod Stephens works through programming problems. Introduces Visual Basic programming to beginning programmers; no prior experience is necessary Covers Visual Basic programming concepts and techniques, as well as the Visual Studio development environment Provides a series of easy-to-follow lessons, supplemented by instructional video on DVD Offers expert instruction from well-known VB authority and author Rod Stephens, who also provides supplemental instruction on the DVD, where he works through a series of Try It problems and demonstrates effective solutions Stephens' Visual Basic Programming 24-Hour Trainer is an exceptional book-and-DVD package that will have you programming in Visual Basic in no time. Note: As part of the print version of this title, video lessons are included on DVD. For e-book versions, video lessons can be accessed at wrox.com using a link provided in the interior of the e-book.

visual basic 2010 how to program: Visual Basic 2010 Unleashed Alessandro Del Sole, 2010-05-07 Visual Basic 2010 Unleashed is the most comprehensive, practical reference to modern object-oriented programming with Visual Basic 2010. Written by Visual Basic MVP Alessandro Del Sole, a long-time leader of the global VB community, this book illuminates the core of the VB language and demonstrates its effective use in a wide variety of programming scenarios. Del Sole covers both Visual Basic 2010 Professional Edition for professional developers and the Express Edition for hobbyists, novices, and students. Writing for VB programmers at all levels of experience, he walks through using VB 2010 for data access, user interface development, networking, communication, and many other tasks. For those moving from structured languages—including VB 6—he offers detailed guidance on building effective object-oriented code. He also demonstrates how to make the most of Microsoft's underlying .NET platform to write more robust and powerful software. This book's broad coverage includes advanced features such as generics and collections; a thorough introduction to the Visual Studio 2010 IDE and Visual Studio Team System; a full section on data access with ADO.NET and LINQ; practical overviews of WPF and WCF; coverage of web and cloud development with Silverlight and Azure; and advanced topics such as multithreading, testing,

and deployment. Understand the Visual Studio 2010 IDE, .NET Framework 4.0, and the anatomy of a VB 2010 application Debug VB applications and implement error handling and exceptions Build efficient object-oriented software with classes, objects, namespaces, and inheritance Work with advanced object-oriented features, including interfaces, generics, delegates, events, and collections Organize, create, and improve classes with the Visual Studio Class Designer Access data with LINQ—including LINQ to Objects, SQL, DataSets, Entities, XML, and Parallel LINQ Build modern Windows applications with WPF controls, brushes, styles, and templates Develop web-centric applications using ASP.NET, Silverlight, and Windows Azure Services cloud computing Create and consume WCF services and WCF Data Services Use advanced .NET 4.0 platform capabilities, including assemblies, multithreading, parallel programming, P/Invoke, and COM interoperability Perform advanced compilations with MSBuild Localize and globalize VB 2010 client applications

visual basic 2010 how to program: Beginning Visual Basic 2010 Thearon Willis, Bryan Newsome, 2011-01-14 Visual Basic 2010 offers a great deal of functionality in both tools and language. No one book could ever cover Visual Basic 2010 in its entirety—you would need a library of books. What this book aims to do is to get you started as quickly and easily as possible. It shows you the roadmap, so to speak, of what there is and where to go. Once we've taught you the basics of creating working applications (creating the windows and controls, how your code should handle unexpected events, what object-oriented programming is, how to use it in your applications, and so on) we'll show you some of the areas you might want to try your hand at next.

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