Contents

- What is Visual Basic
- History
- .Net Framework
- Visual BASIC express edition 2005
- Design View
- IDE view
- Query Designer
- Demo
What is Visual Basic?

• Rapid Application Development
• An event driven programming language and associated development environment created by Microsoft
• Stand alone version of VBA (Visual Basic for application)
• Target novices and non specialist developers
• Not cross platform
History

BASIC: Beginner's All-purpose Symbolic Instruction Code
Originally designed in 1963, for non computer science people

Visual Basic 1.0:
• The next version of Microsoft's DOS-based BASIC compilers, QuickBASIC and BASIC Professional Development System.
• The interface was textual, using extended ASCII characters to simulate the appearance of a GUI.

<table>
<thead>
<tr>
<th>Version</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>VB 1</td>
<td>1991</td>
</tr>
<tr>
<td>VB 2</td>
<td>1992</td>
</tr>
<tr>
<td>VB 3</td>
<td>1993</td>
</tr>
<tr>
<td>VB 4</td>
<td>1995</td>
</tr>
<tr>
<td>VB 5</td>
<td>1997</td>
</tr>
<tr>
<td>VB 6</td>
<td>1998</td>
</tr>
<tr>
<td>VB 7 aka VB .net</td>
<td>2000</td>
</tr>
</tbody>
</table>

Version history
Visual Basic .Net

- Implemented on the .Net Framework
- Full object oriented language
- Add inheritance, Polymorphism, structured exception handling
.NET compatible languages compile to a second platform-neutral language called Common Intermediate Language (CIL).

The platform-specific Common Language Runtime (CLR) compiles CIL to machine-readable code that can be executed on the current platform.
Visual Basic 2005 express edition

Visual Basic 2005 express edition is main parts are:

• An IDE view
• A Designer view
• A query designer
Designer view

- **Controls**: Grouped by category including Menus and Toolbars, Data, Common Dialogs and more.
- **Toolbox**: Contains drag-and-drop controls and components to create your Windows application.
- **Design Surface**: Makes it easy to visually design the look and feel of Windows applications.
- **Tabs**: Work with multiple open files easily using tabs.
- **Smart Tasks**: Built-in Smart Tasks provide easy access to common tasks for controls.
- **Solution Explorer**: Lists all the files, resources, and databases in your project.

- **Task List**: Lets you keep track of tasks that you have to complete in your coding project.
- **Component Tray**: Lists non-visual components in your Windows form.
- **Property Details**: Show the description of the selected property.
- **Properties**: Select an object in the Properties drop-down listbox to easily change properties and events.
IDE view

- **Breakpoints**: Pause your application while running and watch your code execute step-by-step.
- **Line Separators**: Visually separate functions or subroutines.
- **Collapsible Regions**: Make it easy to see just the code you care about.
- **XML Comments**: Easily add documentation to your code.
- **Code Navigation Dropdown Listboxes**: Show the functions in your code.

The My Namespace provides convenient access to a wealth of functionality, relieving you of having to write code manually.

IntelliSense provides statement completion for your types including tooltips for the selected item and filtering for commonly used properties and methods.

Status Bar: displays the current line, column, and character.
Query Designer

- **Database Objects**: Easily add or update database objects including tables, views, and stored procedures.
- **Database Explorer**: Displays the database connections for the project.
- **Criteria**: Selected columns are in this grid, along with filtering, ordering, and other criteria.
- **Tables**: Visualize the tables and relationships in your query.
- **Sorting**: Choose how you want your data sorted and the sorting order.
- **SQL**: As you visually build the query, the SQL query is dynamically generated.
- **VCR Navigation**: Easily navigate the results of your query.
- **Preview Results**: Quickly verify which rows are returned for your query using the preview pane.
- **Output**: Click the checkbox if you want the column in the returned results.
Demo