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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 : **B**eginner's **A**ll-purpose **S**ymbolic **I**nstruction **C**ode
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.
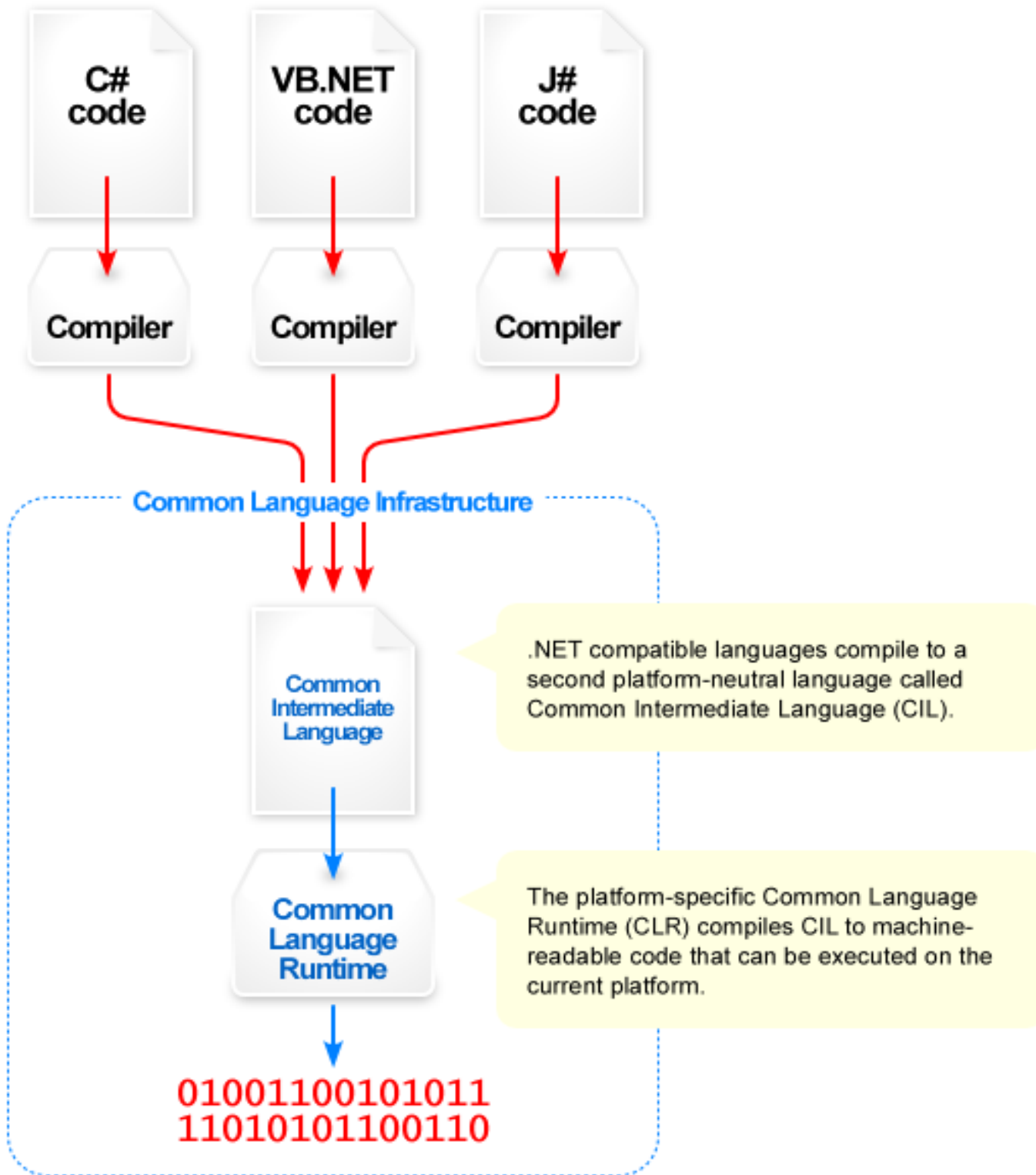
VB 1	1991	
VB 2	1992	
VB 3	1993	
VB 4	1995	
VB 5	1997	
VB 6	1998	
VB 7 aka VB .net	2000	Not compatible with previous versions

Version history

Visual Basic .Net

- Implemented on the .Net Framework
- Full object oriented language
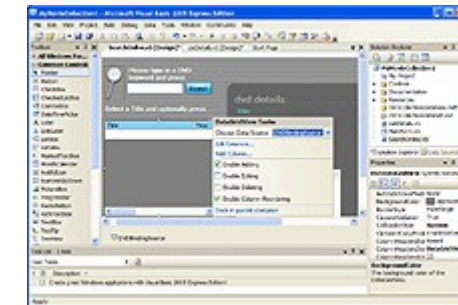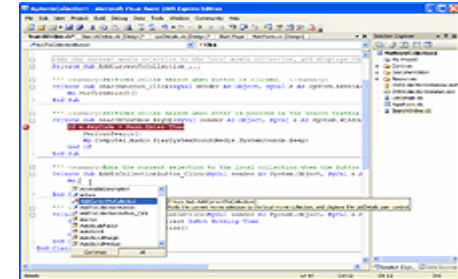- Add inheritance, Polymorphism, structured exception handling

Visual Basic 2005 express edition

Visual Basic 2005 express edition

is main parts are :

- An IDE view

- A Designer view

- A query designer

Design view

Controls Grouped by category including Menus and Toolbars, Data, Common Dialogs and more

Design Surface makes it easy to visually design the look and feel of Windows applications

Smart Tasks Built-in Smart Tasks provide easy access to common tasks for controls

Data Sources Window enables drag and drop data-bound controls from databases, objects, or Web services

Toolbox contains drag-and-drop controls and components to create your Windows application

Tabs Work with multiple open files easily using tabs

Solution Explorer Lists all the files, resources, and databases in your project
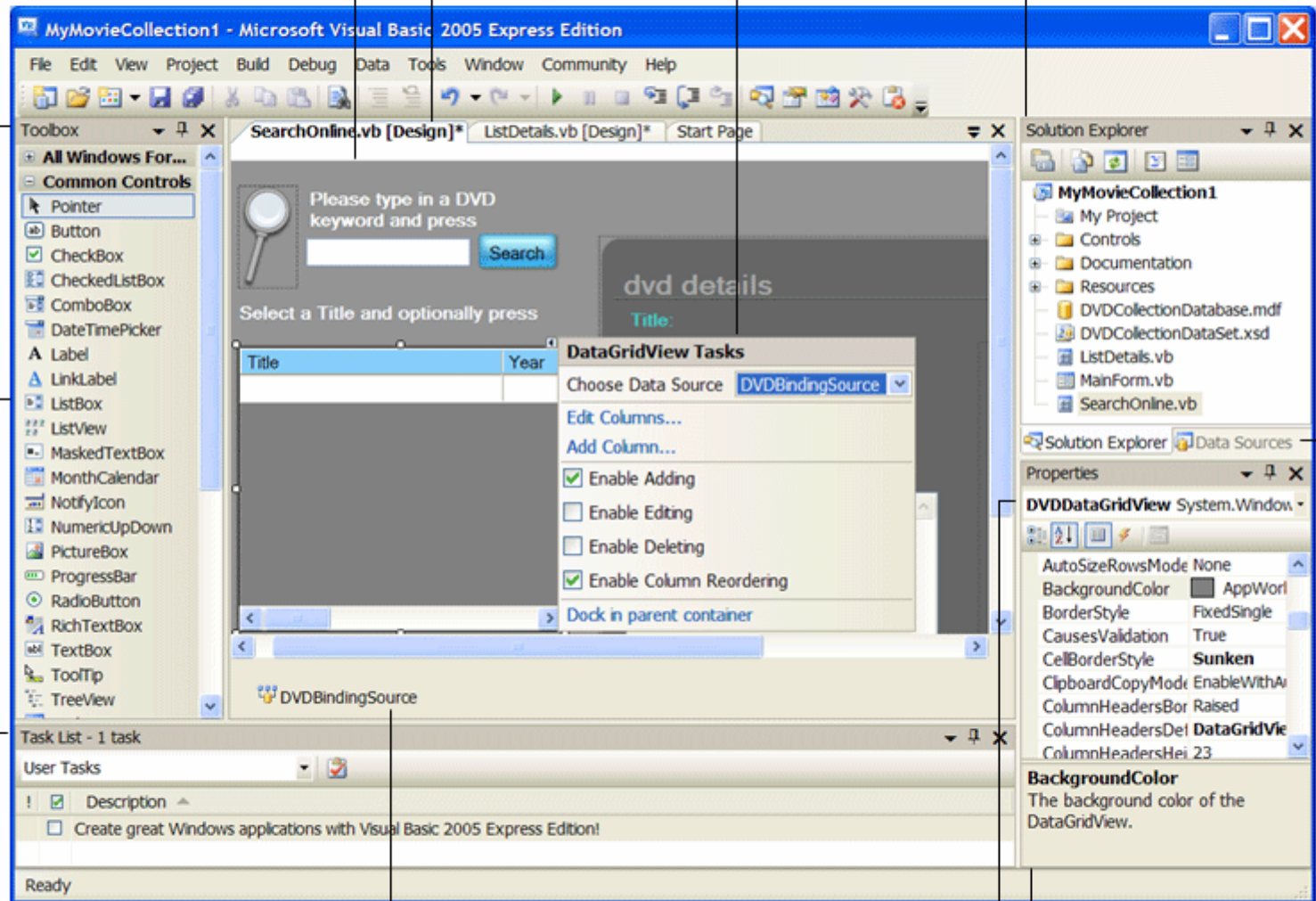
Task List lets you keep track of tasks that you have to complete in your coding project

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

Collapsible Regions make it easy to see just the code you care about

Line Separators visually separate functions or subroutines

XML Comments Easily add documentation to your code

Code Navigation Dropdown listboxes show the functions in your code

MyMovieCollection1 - Microsoft Visual Basic 2005 Express Edition

File Edit View Project Build Debug Data Tools Window Community Help

SearchOnline.vb* SearchOnline.vb [Design]* ListDetails.vb [Design]* Start Page MainForm.vb [Design]

AddToCollectionButton | Click

```
    Adds the current movie selection to the local movie collection, and displays the
    Private Sub AddCurrentToCollection ...

    ''' <summary>Performs online search when button is clicked.  </summary>
    Private Sub SearchButton_Click(ByVal sender As Object, ByVal e As System.EventAr
        Me.PerformSearch()
    End Sub

    ''' <summary>Performs online search when enter is pressed in the search textbox.
    Private Sub SearchTextBox_KeyUp(ByVal sender As Object, ByVal e As System.Window
        If e.KeyCode = Keys.Enter Then
            PerformSearch()
            My.Computer.Audio.PlaySystemSound(Media.SystemSounds.Beep)
        End If
    End Sub

    ''' <summary>Adds the current selection to the local collection when the button
    Private Sub AddToCollectionButton_Click(ByVal sender As System.Object, ByVal e A
        Me.
    End S
```

AccessibleDescription
Actors
AddCurrentToCollection
AddToCollectionButton
AddToCollectionButton_Click
Anchor
AutoScaleFactor
AutoScroll
AutoScrollMargin
AutoScrollMinSize

Common   All

Private Sub AddCurrentToCollection()
Adds the current movie selection to the local movie collection, and displays the ListDetails user control.

```
     oubleClick(ByVal sender As System.Object, ByVal e A
    rrent IsNot Nothing Then
    ction()
    End S
End Class
```

Solution Explorer

MyMovieCollection1
- My Project
- Controls
- Documentation
- Resources
- DVDCollectionDatabase.mdf
- DVDCollectionDataSet.xsd
- ListDetails.vb
- MainForm.vb
- SearchOnline.vb

Solution Expl... Data Sources

Ready   Ln 97   Col 12   Ch 12   INS

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

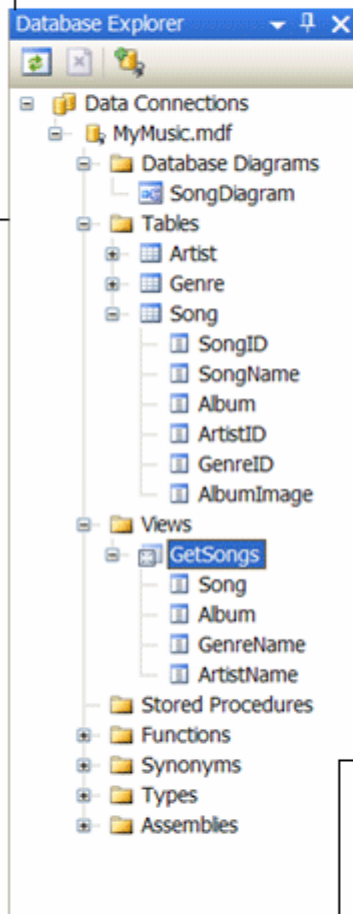**Status Bar** displays the current line, column, and character
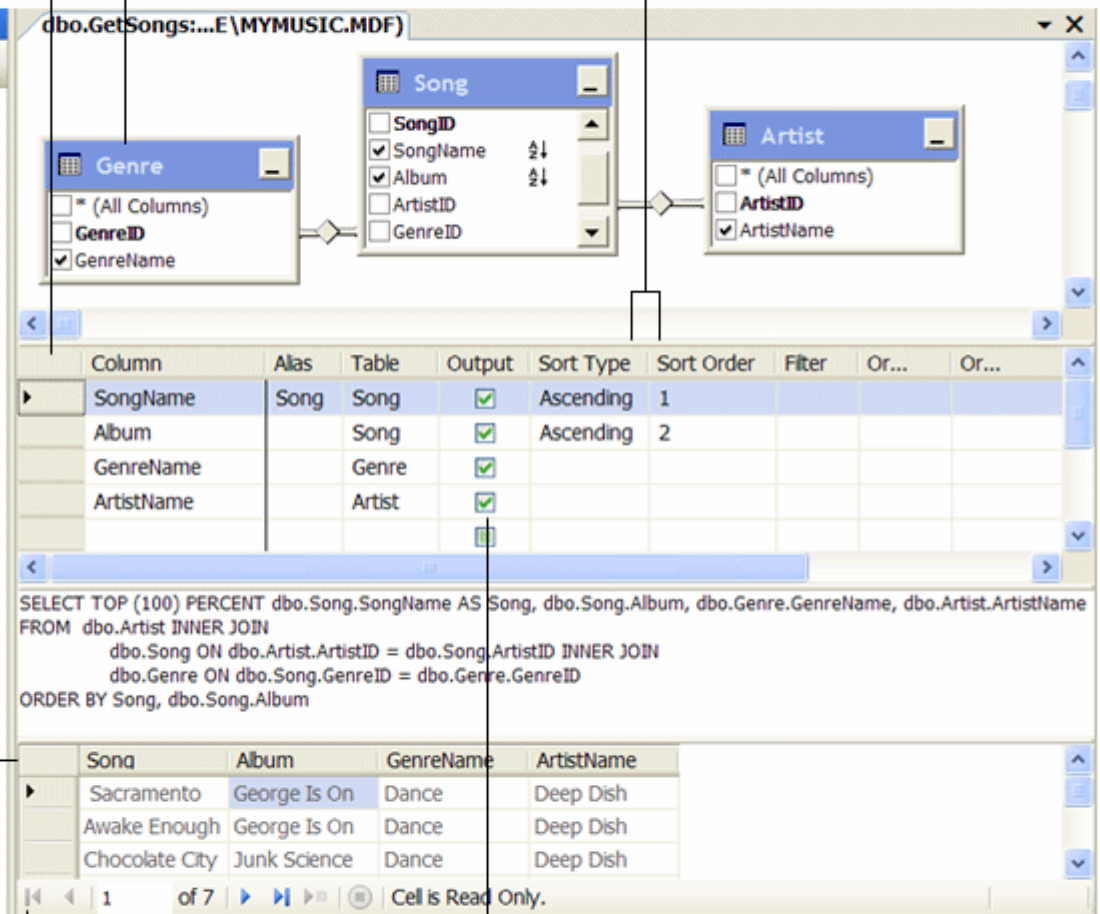
Query Designer

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

SQL As you visually build the query, the SQL query is dynamically generated

Sorting Choose how you want your data sorted and the sorting order

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Database Explorer

- Data Connections
  - MyMusic.mdf
    - Database Diagrams
      - SongDiagram
    - Tables
      - Artist
      - Genre
      - Song
        - SongID
        - SongName
        - Album
        - ArtistID
        - GenreID
        - AlbumImage
    - Views
      - GetSongs
        - Song
        - Album
        - GenreName
        - ArtistName
    - Stored Procedures
    - Functions
    - Synonyms
    - Types
    - Assemblies

---

dbo.GetSongs:...E\MYMUSIC.MDF)

Genre
- [ ] * (All Columns)
- [ ] GenreID
- [x] GenreName

Song
- [ ] SongID
- [x] SongName
- [x] Album
- [ ] ArtistID
- [ ] GenreID

Artist
- [ ] * (All Columns)
- [ ] ArtistID
- [x] ArtistName

Column	Alias	Table	Output	Sort Type	Sort Order	Filter	Or...	Or...
SongName	Song	Song	☑	Ascending	1			
Album		Song	☑	Ascending	2			
GenreName		Genre	☑					
ArtistName		Artist	☑					
			☑					

```
SELECT TOP (100) PERCENT dbo.Song.SongName AS Song, dbo.Song.Album, dbo.Genre.GenreName, dbo.Artist.ArtistName
FROM  dbo.Artist INNER JOIN
          dbo.Song ON dbo.Artist.ArtistID = dbo.Song.ArtistID INNER JOIN
          dbo.Genre ON dbo.Song.GenreID = dbo.Genre.GenreID
ORDER BY Song, dbo.Song.Album
```

Song	Album	GenreName	ArtistName
Sacramento	George Is On	Dance	Deep Dish
Awake Enough	George Is On	Dance	Deep Dish
Chocolate City	Junk Science	Dance	Deep Dish

|◀ ◀ | 1 | of 7 | ▶ ▶| ▶⊪ | ⬤ | Cell is Read Only.

VCR Navigation Easily navigate the results of your query

Output click the checkbox if you want the column in the returned results

Preview Results Quickly verify which rows are returned for your query using the preview pane

Demo