

# Essential Studio

Essential Grid

Essential XlsIO

Essential Calculate

Essential PDF

Essential HTMLUI

Essential Tools

Essential Grouping

Essential Chart

Essential Diagram

Essential Edit



Components with distinction

# Syncfusion, Inc.

The component company that goes the extra mile to make a difference in your development experience

At Syncfusion our mission is to produce world-class software components that enable developers to produce quality software for the most demanding of environments. Our components for Windows Forms and ASP.NET applications are quite simply “.NET Essentials.” Each of the products in our Essential Studio package has a unique and useful feature set that developers find to be an indispensable part of their programming arsenal.

Our innovative libraries are written from scratch in 100% C# and designed to be extensible to ensure maximum benefit to our customers. We also provide full source code to enable seamless integration of our libraries with our customers' projects. Powerful and feature-rich, Syncfusion's broad range of products are vital to mission-critical applications in organizations ranging from small businesses to multinational Fortune 100 companies.

## Industry-leading architects

Our products are engineered by leading architects Stefan Hoenig and George Shepherd; both well-known for their groundbreaking contributions to the component industry. Stefan is the architect and author of a leading grid component for the MFC environment. George is a leading .NET and MFC author and a contributing editor at MSDN magazine. He also maintains the Windows Forms FAQ hosted by Syncfusion.

## Technologically superior products

We strive to produce products that are technologically superior. Syncfusion engineers and architects devote themselves to the continuous examination of our products. If we can enhance a certain feature or framework we will. At Syncfusion we invest significant effort in revisiting every aspect of our products to ensure that our customers have the most optimal development experience.

## Full source code

We believe in empowering our customers with full source code, and our entire source code is written to be redistributed and made available to developers. There are key differences in the way we offer our source code in comparison with others on the market. For example, we are the only vendor to offer instant source-level debugging support using a special debugging support system. Users can step right into the source code of our libraries from within their own application projects. Our customers tell us that this one feature alone has saved countless hours of development time.

## Attention to detail

At Syncfusion we always keep an eye out for detail, continually looking for ways to improve each user's development experience and final results.

When implementing a new feature our goal is to provide considerable value to our customers. Consider our Excel read/write solution for Essential Grid. Syncfusion has implemented a fully customizable library with complete support for the BIFF 8 object model. In contrast, most implementations that are currently on the market offer only a single method to write an Excel file. With Syncfusion's products you can write a specialized Excel report in under 50 lines of code.

Our extensive quality assurance process allows for several extended beta cycles and a wide range of testing procedures to ensure that our products are truly enterprise-quality. The reliability of our components eliminates any concerns developers may have when introducing source code that they have not written themselves into their applications.

### **Technical support**

We believe in providing a solid support infrastructure for our products. To ensure the highest quality of support possible, we employ a software-based developer support system called Direct-Trac. Syncfusion Direct-Trac is a custom-built Customer Relationship Management program that is uniquely tailored for the needs of developers. Support incidents can be created and tracked to completion 24 hours a day, 7 days a week.

Apart from the technical aspects of our support system, we take pride in a people-friendly system that always aims to provide excellent service. In the interest of complete transparency, we provide our customers and evaluators with the opportunity to review feature requests and open incidents live on our website. Our customers report frequently that our support is unmatched in the component industry. Syncfusion firmly believes that our success is closely tied to the success of our customers. To help you succeed, we strive to offer technical support that is easily accessible, accurate, and fast. You can test drive the online portion of our support interface here: <http://www.syncfusion.com/support/>.

### **Flexible licensing model – No gimmicks**

We have a simple royalty-free licensing model where components are licensed to a single user. We also recognize that you often work at home or on your laptop in addition to your work machine, and our license permits our products to be installed in each location. One price for all locations - no hidden charges and no expensive additional fees.

### **Money-back guarantee**

We stand completely behind our products. We offer a 30-day, no risk, money-back guarantee on all of our components. If you are not satisfied with our products, for any reason, you may simply return them for a full refund.

### **Excellent value**

At Syncfusion we strongly believe our products provide outstanding value. Other software companies may price their components at a lower market price, but we urge you to examine the total cost. The initial cost of a component is often the smallest part of the overall cost of using that control. Component integration, deployment, and other related application expenses can be ten times or more the initial cost of a component. With Syncfusion's superior products your integration, deployment, and maintenance costs will be significantly lower. You will also benefit from the deployment of a solid, well-tested product as part of your application. All of these factors contribute to a much lower total cost of ownership.

We have top-notch architects, product managers, sales managers, support personnel, developers, and management all working with you as their focal point. You can be assured that Syncfusion will go the extra mile to meet your needs and exceed your expectations.

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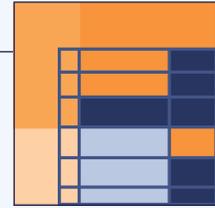
#### **Online**

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The grid control for mission-critical applications

# Essential Grid



A high-performance and extensible grid component built for use in the most demanding of environments

Syncfusion Essential Grid is a powerful grid control implemented using a unique styles-based architecture. This high-performance .NET component has the capability to handle millions of rows with ease. Most other grid controls on the market limit developers to solely formatting columns, but Essential Grid allows much more control. It works comparably to Microsoft Excel, supporting extremely detailed customization down to the cell level. Multi-level Undo / Redo, shared scrollbar support, data / view separation, floating cells, more than 20 cell types, and an extensible architecture are among the many unique features offered by Essential Grid.

Grouping and Microsoft Excel read / write capabilities are provided by Essential Grouping and Essential XlsIO. These complimentary products are included in the Essential Grid package, which is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

## Features

### Cell-oriented architecture

Essential Grid's cell-oriented architecture makes it highly adaptable. With Essential Grid you decide how the data is stored, and the grid then goes to work. There is no need to worry about having your data in a certain format or storing it in a predetermined structure in order to fit constraints of the grid. Essential Grid provides all the flexibility and support needed to build long-life cycle applications.

### High-performance virtual mode

Essential Grid offers excellent data binding support to the Microsoft data binding interfaces. It goes even further by offering complete support for virtual mode, which has an extremely high performance standard. By simply implementing a few callbacks, you can have the grid natively access your data.

	A	B	C	D	E	F	G	H
<b>ABS</b>								
16 ABS(E14*F16) / (G16 + H16)	0.07			2890.00	1728.00	7947.00	6076.00	
17 ABS(ABS(E17*F17))	6900.00			313.00	7221.00	4412.00	4219.00	
18 ABS(E18)	4751.00			6368.00	6123.00	7010.00		
<b>ACOS</b>								
20 ACOS(ABS(E20) / (G20 + H20))	1.46			4330.00	2955.00	6963.00	6517.00	
21 ACOS(ABS(E21*F21))	NaN			1979.00	5636.00	1782.00	4133.00	
22 ACOS(E22)	NaN			1166.00	1817.00	5207.00	4037.00	
<b>AND</b>								
24 AND(E24*F24) / (G24 + H24)	1.00			1406.00	1480.00	3157.00	9467.00	
25 AND(ABS(E25*F25))	1.00			7506.00	1427.00	9658.00	3961.00	
<b>SINH</b>								
108 SINH(ABS(E108*F108) / (G108 + H108))	409.00			9724.00	4563.00	9740.00		
109 SINH(ABS(E109*F109))	6462.00			4916.00	9807.00	2967.00		
110 SINH(E110)	9995.00			1496.00	7972.00	1894.00		
<b>SQRT</b>								
112 SQRT((E112*F112) / (G112 + H112))	0.00			9600.00	3032.00	1194.00	2871.00	
113 SQRT(ABS(E113*F113))	85.95			8750.00	4402.00	102.00	1443.00	
114 SQRT(E114)	31.81			1012.00	7311.00	4445.00	6085.00	
<b>SUM</b>								
116 SUM(E116:H116)	19950.00			9530.00	2282.00	7680.00	301.00	
117 SUM(E117:H117, E118, F118, G11)	30726.00			1517.00	1535.00	5272.00	7931.00	
118 SUM(E117:H117, E118:H118)	30726.00			6193.00	1707.00	3722.00	3199.00	
<b>TANH</b>								
120 TANH(ABS(E120*F120) / (G120 + H120))	-0.54			3761.00	5936.00	2788.00	1547.00	
121 TANH(ABS(E121*F121))	1.00			573.00	6528.00	881.00	8913.00	
122 TANH(E122)	1.00			6696.00	4255.00	1733.00	584.00	
123								
124				994036.00	4634.36	9994.00	237.00	
125								
126								
127								
128								
129								

### Charting and grouping integration

Essential Grid offers seamless integration with our grouping and charting libraries, Essential Grouping and Essential Chart. There is complete support for custom grouping criteria, custom summaries, and an easy to use customization model for visual aspects.

### Fully extensible formula engine

Essential Grid includes a built-in, fully extensible formula engine, and also supports reading and writing Microsoft Excel files using Syncfusion Essential XlsIO's library.

### ASP.NET support

Essential Grid for ASP.NET is a web control that uses the Essential Grouping engine to provide a web grid with functionality such as grouping, nested tables, and foreign-key relations. The API and object model are very similar to the Windows Forms version, providing a seamless user experience when switching between these two controls.



# The grid control for mission-critical applications

## Essential Grid Features

### Cell attributes

Cell text alignment	Control horizontal and vertical alignment
Autosize	Automatically increase cell height
Customizable borders	Change the appearance of grid borders
Cell appearance	Control cell edges (raised, sunken, or flat)
Cell types	Support for different control types for each cell
More than 50 cell properties	BackColor, Text, Fonts, ReadOnly, Enabled, etc.

### Cell types

Static cell	Display cells that cannot be edited
More than 20 other types	Cell types for every need
Extensible cell architecture	Supports custom cell types

### Grouping support

Hierarchical display	Inline expansion of records with master-detail relations
Group by column	Group each level by the columns of its table
Filter and Expression columns	Apply filters or add expression columns
Summaries	Add summary rows for each group
Customizable architecture	Supports customizable grouping and summaries

### Data binding

ADO.NET	Support for flexible data binding
Virtual mode	Load data in an on-demand, real-time manner
Unbound mode	Connect to an unbound data source

### Microsoft Excel read / write

Export to Excel BIFF 8	Export grid content to Microsoft Excel with formatting
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### Grid formula support

Cross-sheet references	Reference values from other sheets
Function library	Ships with more than 150 entries
Extensible function library	Easy-to-extend function library with support for custom entries
NamedRange support	Name values and references for use in other formulas
GridAwareTextBox	FormulaBar for editing formula cells

### Additional features

Serialization	Versioned serialization of grid data
Tabbed worksheets	Workbook interface similar to that of Microsoft Excel
Excel-like behaviors	Microsoft Excel-like selection highlighting and behaviors

### ASP.Net Features

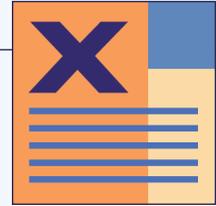
Windows control compatibility	Consistent with Windows GridGrouping control API and behavior
Paging and scrolling support	Choose between paging or scrolling the grid records with frozen rows and columns
Various edit modes	Use in-place editing, editing in an in-built form, or use a custom form
Templates support	Use templates to customize the look and feel of any portion of the grid

System requirements: Microsoft .NET framework 1.0 or later



[www.synCFusion.com](http://www.synCFusion.com)

# Essential XlsIO



A high-performance scalable component for the creation and manipulation of Microsoft Excel files

Easily read and write Microsoft Excel files using Syncfusion Essential XlsIO library. Essential XlsIO features a full-fledged object model comparable to the Microsoft Office COM libraries that can be used for manipulating Excel files (BIFF8 format, supported by all versions of Microsoft Excel from Office 97 forward). This product is built from scratch in 100% C#, making it free from the constraints of the COM interop. Developers and users will enjoy the freedom that Essential XlsIO provides; with no restrictive dependency on Microsoft Excel itself, this product can be used on systems that do not have Excel installed. This makes it an excellent reporting engine for tabular data.

Essential XlsIO is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

## Features

### Full-fledged Excel reporting

Essential XlsIO allows for reports to be created from scratch or by using templates. Virtually all Microsoft Excel formatting is supported by this product. There is also advanced support for reading and writing formulas and for the manipulation of worksheets.

### Optimized for server use

Microsoft's COM-based implementation libraries have restrictions that many find to be severe when accessing and creating Excel files in a server environment. In contrast, Essential XlsIO is a pure .NET solution that is optimized especially for use within a server environment. The shortcomings of COM-based implementation libraries are documented in Microsoft's article, "Considerations for Server-Side Automation of Office," which can be found at <http://support.microsoft.com/?id=257757>. The article also highlights Syncfusion's solution.

CustomerID	CompanyName	ContactName	ContactTitle
ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative
ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner
ANTON	Antonio Moreno Taqueria	Antonio Moreno	Owner
AROUT	Around the Horn	Thomas Hardy	Sales Representative
BENGS	Berglunds snabbkop	Christine Berglund	Order Administrator
BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative
BLOMP	Blondiesdtal père et fils	Frédérique Citeaux	Marketing Manager
BOLID	Bólido Comidas preparadas	Martin Sommer	Owner
BONAP	Bon app'	Laurence Labihan	Owner
BOTTM	Bottom-Dollar Markets	Elizabeth Lincoln	Accounting Manager
BSBEV	B'S Beverages	Victoria Ashworth	Sales Representative
CACTU	Cactus Comidas para llevar	Pedro Simpson	Sales Agent
CENTC	Centro comercial Modurama	Francisco Chang	Marketing Manager
CHIPS	Chop-suey Chinese	Hang Wang	Owner
COMMI	Comércio Mineiro	Pedro Afonso	Sales Associate
CONSH	Consolidated Holdings	Elizabeth Brown	Sales Representative
DRACD	Drechenstuhl Delikatessen	Sven Ottebl	Order Administrator
DUMON	Du monde entier	Jietse Lebrune	Owner
EASTC	Eastern Connection	Ann Devon	Sales Agent
ERNSH	Ernst Handel	Roland Mendel	Sales Manager
FAMIA	Familia Arquibaldó	Rita Cruz	Marketing Assistant
FISSA	FISSA Fabrica Inter, Salchichas S.A.	Diego Roel	Accounting Manager
FOLIG	Folies gourmandes	Martine Rancé	Assistant Sales Agent
FOLKO	Folk och färb	Maria Larsson	Owner
FRANK	Frankensvensd	Peter Franken	Marketing Manager
FRANK	Franco restauration	Carrie Schmitt	Marketing Manager
FRANS	Franchi S.p.A.	Paolo Accorti	Sales Representative
FURBI	Furia Bacalhau e Frutos do Mar	Lino Rodriguez	Sales Manager
GALED	Galeria del gastronómo	Eduardo Saavedra	Marketing Manager
GOLOS	Góldes Cocina Típica	Jose Pedro Freyre	Sales Manager

### No Microsoft Office dependency

Essential XlsIO is not constrained by a dependency on Microsoft Office. When using Essential XlsIO to create or read Microsoft Excel files there is no need to have Microsoft Excel installed.

### Easy API transitioning

Essential XlsIO can be used in Windows Forms and ASP.NET applications. It is simple to transition from another API because Essential XlsIO's API is similar to the Microsoft COM automation API for Excel files.



Sophisticated Microsoft Excel reporting for business applications

## Essential XlsIO Features

### Implementation

Read / Write	Read and write Microsoft Excel files
Versions	Read and write all versions of Microsoft Excel since Office 97
Object model	Full-fledged object model comparable to Microsoft Office Excel automation model
100% Managed code	Built from scratch in C# and does not use COM interop
No dependency on MS Excel	Library has no dependency on Microsoft Excel and can be used on systems without it

### Spreadsheet creation

Multiple worksheets	Create a workbook with multiple worksheets
Templates	Create workbooks from templates (or existing workbooks)
Text formatting	Set or change the color, type, size, and style of font in a cell
Number formats	Display fractions, percentage, currency, and date formats in a cell
Shading cells	Shade cells with solid colors or patterns
Merge / Unmerge cells	Merge / unmerge cells
Group / Ungroup cells	Group / ungroup rows and columns
Styles	Apply complex formatting using styles
Named ranges	Create / manipulate named ranges
Formula support	Use predefined Microsoft Excel functions and custom formulas
Modify spreadsheets	Read and modify existing spreadsheets

### Advanced Features

Charts	Create charts using provided API
Autofilters	Insert autofilters using provided API
Worksheet protection	Lock / unlock spreadsheets with passwords
Pictures	Insert pictures into spreadsheets
Streams	Open spreadsheets from streams and save them back to streams
Macro support	Read macros and preserve them upon re-saving
Pivot tables	Pivot tables in template spreadsheets are preserved during re-saving
Conditional formatting	Apply conditional formatting
Hyperlinks	Insert hyperlinks using provided API
Data validation	Apply data validation
Rich text	Insert rich text into cells
Comments	Insert cell comments

### ASP.NET support

Stream to browser	Stream created spreadsheets to browser clients
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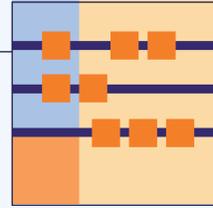
System requirements: Microsoft .NET framework 1.0 or later



[www.syncfusion.com](http://www.syncfusion.com)

Straightforward and extensible .NET calculation support

# Essential Calculate



Essential Calculate allows you to add calculation support to your own business objects, with no user interface (UI) dependencies

Syncfusion Essential Calculate can be used with Windows Forms and ASP.NET. With Windows Forms, you can easily set up forms that have calculation dependencies among various controls. On the server, it allows for the creation of a calculation engine that can be used to perform complex calculations.

Essential Calculate comes with a function library of more than 150 entries and supports cross-sheet references. When you use Essential Calculate in conjunction with Syncfusion Essential XlsIO, you can fully load, manipulate, and compute Microsoft Excel spreadsheets with absolutely no dependence upon Microsoft Excel. Essential Calculate is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

## Features

### CalcQuick – Simple-to-use calculation support

Essential Calculate's CalcQuick class gives you easy access to calculations. Simply register variable names and values with CalcQuick to calculate algebraic formulas involving those variables.

### ICalcData interface for your custom data objects

Essential Calculate can be used with any business object by having the object implement the ICalcData interface. All that is needed for your object to perform calculations using Excel-like formulas is this minimal interface of three methods and one event.

### Excel functionality without Excel

Essential Calculate allows you to read, compute, and write Microsoft Excel files without any Microsoft Excel dependencies when used in conjunction with Essential XlsIO. This functionality allows you to create server-based formula engines that can produce calculated results without Microsoft Excel being installed on the server.

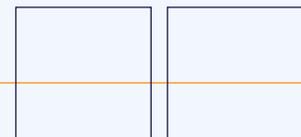
State Factor	Age	Sex	Points	Model Year	Model
AL 0.9502	15 1.40	M 1.20	0 1.00	2005 1.30	Ford 1.00
AK 1.0000	16 1.50	F 1.00	1 1.00	2004 1.24	Chevrolet 1.00
AZ 1.0310	17 1.40		2 1.10	2003 1.17	Buick 1.10
AR 0.9604	18 1.40		3 1.20	2002 1.11	Toyota 0.90
CA 1.2010	19 1.40		4 1.40	2001 1.06	BMW 1.20
CO 1.1020	20 1.30		5 1.50	2000 1.01	Mercedes 1.20
CT 1.1650	21 1.30		6 1.60	1999 0.96	Honda 1.00
DE 1.0900	22 1.30		7 2.00	1998 0.96	Honda 0.90
FL 1.1110	23 1.20		8 2.00	1997 0.96	Mitsubishi 1.00
GA 1.0340	24 1.20		9 2.40	1996 0.96	Cadillac 1.10
HI 1.1990	25 1.20		10 2.60	1995 0.96	Lexus 1.20
ID 0.9900	26 1.10		11 3.00	1994 0.96	

### Extensive function library

Essential Calculate has an extensible library that includes more than 150 functions. They range from standard mathematical functions, such as Cos and Sin, to statistical functions, such as Average and Standard Deviation, to financial functions, such as Declining Balance and Future Value. You can also easily add custom functions to the library by creating a delegate method and adding it to the function collection.

### UI-independent

Essential Calculate is free from user interface dependencies. Developers may use the library with any UI control or with no control at all. Users are not restricted to Syncfusion's UI controls when working with Essential Calculate. Enjoy the freedom of the option to work with the .NET framework controls, Syncfusion products, or any other third party control.



Straightforward and extensible .NET calculation support

## Essential Calculate Features

### General

UI-independent	No UI dependencies; can be used with any .NET control or none at all
Customizable	Add calculation support to any business object

### CalcQuick interface for ease of use

Simple-to-use	Register a variable name and set its value
Supports Windows Forms controls	Add calculation support to a set of controls
Features two calculation modes	Supports both dynamic calculation updates and manual updates

### Microsoft Excel-like calculation support

Supports working with spreadsheet-like data
Supports working with workbooks of spreadsheets
Supports serialization of workbooks in a format optimized for Essential Calculate

### ICalcData interface

Add calculation support to any object. Implementation requires only 3 methods and 1 event for any object.

### Function library

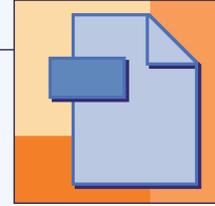
Contains over 150 commonly used functions. Average, Sum, HLookUp, Atan, and more are included. Function implementation is extensible, and you can easily add your own custom functions.

System requirements: Microsoft .NET framework 1.0 or later



[www.syncfusion.com](http://www.syncfusion.com)

# Essential PDF



A high-performance scalable component for the creation of Adobe PDF files

Syncfusion Essential PDF is a .NET library that can produce Adobe PDF files. It features a full-fledged object model for the easy creation of PDF files from any .NET language. Essential PDF does not use any external libraries and is built from scratch in C#. This component can be used on the server side (ASP.NET or any other environment) or with Windows Forms applications.

Essential PDF is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

## Features

### Full-fledged PDF reporting

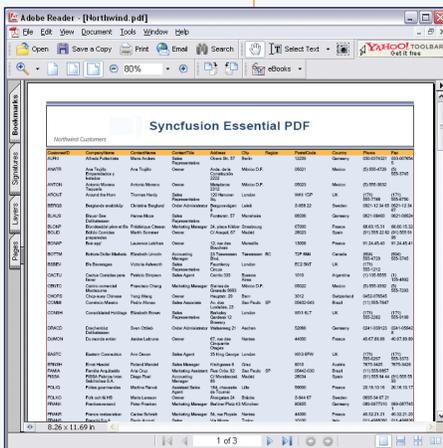
Essential PDF has support for creating PDF documents with advanced features such as attachments, security, compression, vector images, annotations, bookmarks, and hyperlinks.

### Optimized for server use

Essential PDF is a pure .NET solution that is optimized especially for use within a server environment. It uses memory in an optimal manner and can be used to handle multiple requests with ease.

### No Adobe Acrobat dependency

Essential PDF does not have any dependency on Adobe Acrobat to create the PDF files, so you will not incur expensive additional licensing costs. Everything you need to generate great looking PDF documents comes with this product. With Essential PDF you can start creating documents in minutes.



### Security settings

Essential PDF provides support for setting the security of the PDF documents generated, ensuring that the end user is granted only the desired permissions when interacting with the PDF documents. Options to allow or disallow printing and copying, to restrict annotations, and to password-protect a document are all included.

### Easy to use API

Essential PDF has a simple, yet powerful, object model that can be used to create richly formatted PDF reports. The Graphics class, which is the core of the object model that is used to draw contents on a PDF page, is modeled after the .NET Graphics class. Users who are familiar with the .NET Graphics class can start working with Essential PDF without any need for further education. Essential PDF also has native support for rendering any .NET Graphics object to a PDF file.

Sophisticated Adobe PDF reporting for business applications

## Essential PDF Features

### Implementation

Versions	PDF files created can be viewed in all versions of Acrobat viewers
Object model	Extremely intuitive object model that ensures very quick learning
100% Managed code	Built from scratch in C#

### Features

Document properties	Set document properties like author, creation date, etc.
Viewer preferences	Set document properties like hide MenuBar, hide WindowUI, etc.
Compression	Compression ensures smaller file sizes
Annotations	Insert annotations
Bookmarks	Insert bookmarks
Colors	Use web colors, RGB colors, CMYK Colors, and grayscales
Watermarks	Insert watermarks
Header / Footer	Set headers and footers
Page orientation	Set landscape or portrait orientations
Hyperlinks	Insert hyperlinks
Text rotation	Rotate text at the specified angle
Shapes	Draw shapes like line, rectangle, circle, arcs, pies, bezier curves, ellipses, etc.
Images	Supports BMP, GIF, TIFF, and JPEG formats
Soft masks	Apply soft masks
Streams	Save generated PDF documents to any IO stream
Transparent drawing	Draw transparent shapes and images
Unicode support	Create documents with Unicode content
Datatable	Import an ADO.NET data table with ease
Right to Left	Create documents with RTL support
Security	Lock documents with password
Vector images	Native support for EMF+ rendering

### Implementation

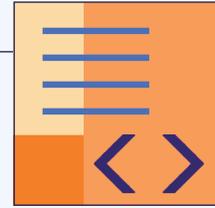
Stream to browser	Stream created PDF file to browser clients
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System requirements: Microsoft .NET framework 1.0 or later



[www.syncfusion.com](http://www.syncfusion.com)

# Essential HTMLUI



A display engine for HTML that allows for the creation of extremely flexible user interfaces that can be generated on demand

Syncfusion Essential HTMLUI is a unique component that can change the way you create your application's user interface. It encapsulates the HTML-display functionality of a web browser, such as Internet Explorer, in an easy to use .NET control - without any dependence on a web browser.

The control supports displaying a wide variety of HTML tags, CSS attributes, and Windows Forms controls, and also supports scripting of the HTML elements. Printing, text selection, and searching by the end user are also supported. Essential HTMLUI is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

## Features

### Lay out flexible interfaces

Essential HTMLUI supports a wide variety of HTML tags and CSS attributes. Users can display any Windows Forms control as part of the user interface defined in HTML. HTML-based layout of user interface elements affords tremendous flexibility in defining your interface, without losing the ability to use any Windows Forms control you need.

### Localization support

Essential HTMLUI can dramatically simplify the creation of localization-ready applications. When text or images are changed on account of localization, the control will automatically lay out the user interface to provide the experience best suited to the individual user. Essential HTMLUI can be used to skin and theme applications to provide an experience beyond typical localization, allowing an entire user interface arrangement to be switched on the fly for different locales.

### Complete control from code

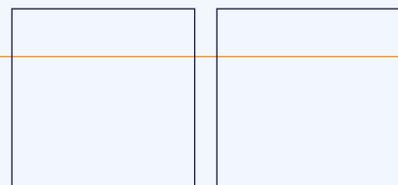
You can completely control the layout, the behavior of the loaded HTML document, and the HTML elements from within your application's code. Scripting is also supported to manipulate elements using code from within the HTML document itself.

### User interaction

Your users will have a very rich experience with a user interface that includes advanced features such as printing, text selection, and searching built into the control. The Windows Forms controls embedded in the user interface also contribute to the user experience.

### Lightweight and easy to deploy

Essential HTMLUI is very simple to deploy and requires only the Microsoft .NET runtime to be installed on the target clients. This control is completely independent from Internet Explorer, providing full independence in controlling the appearance and settings for the control. Essential HTMLUI will not be affected by Internet Explorer-related security issues.



Flexible HTML functionality

## Essential HTMLUI Features

### HTML tags supported

Anchor / link tag	A
Formatting tags	B, EM, Font, I, U, STRONG, CODE, P, PRE
Break	BR
Style tags	STYLE, LINK, SPAN
Heading tags	H1 – H6
Horizontal line	HR
Image tag	IMG
Document tags	TITLE, BODY, HEAD
Form tags	INPUT, SELECT, TEXTAREA, CHECKBOX, RADIO
Block tag	DIV
List tags	LI, OL, UL
Scripting	SCRIPT
Table tags	TABLE, TR, TD, TH
Display Windows Forms controls	CUSTOM

### CSS attributes supported

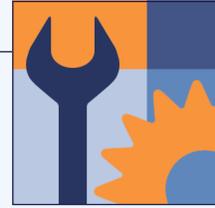
Color, Background-Color
Text-Align, Vertical-Align
Cursor
Padding, Padding-Left, Padding-Top, Padding-Right, Padding-Bottom
Border, Border-Left, Border-Top, Border-Right, Border-Bottom, Border-Style, Border-Left-Style, Border-Top-Style, Border-Right-Style, Border-Bottom-Style, Border-Width, Border-Left-Width, Border-Top-Width, Border-Right-Width, Border-Top, Width, Border-Right-Width, Border-Bottom-Width, Border-Color, Border-Left-Color, Border-Top-Color, Border-Right-Color, Border-Bottom-Color
Font-Family, Font-Style, Font-Weight, Font-Size
Text-Decoration
Width
Height
Background-Image, Background-Repeat

System requirements: Microsoft .NET framework 1.0 or later



[www.syncfusion.com](http://www.syncfusion.com)

# Essential Tools



Syncfusion Essential Tools can reduce development time by months or even years

Essential Tools implements the latest Windows XP, Office XP, and Visual Studio .NET-style user interfaces. In addition, it includes several utility controls. Powerful frameworks are provided to support Visual Studio .NET-style docking, customizable menus, MDI tabs, and layout managers, as well as an Excel-like workbook control, advanced scroll control, XP-style tab and task menu control, Outlook-style group bar and group view, calculator control, masked edit, auto-complete capabilities, and many other useful controls.

Essential Tools is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

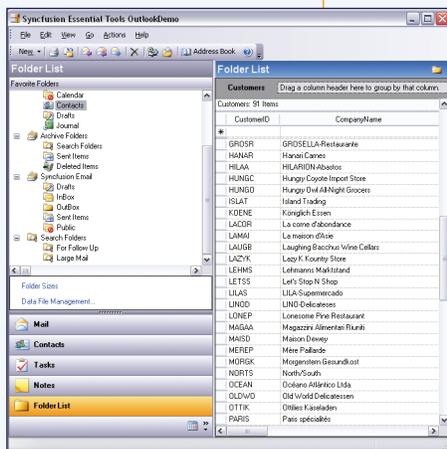
## Features

### Extensive layout management

Having extensive layout management tools at your fingertips can greatly simplify preparing a product for localization. A few lines of code in Essential Tools can supply a solution to even the most complex layout management problems. The configuration capabilities provided by the layout manager allow for a seamless transition between the current application and any updates or changes that arise post-deployment.

### Familiar docking framework

Essential Tools offers users an advanced docking framework similar to the latest Microsoft applications. Your customers will already be familiar with the look and feel of the application, and they will appreciate the extra screen real estate and the increased usability offered by this state of the art interface.

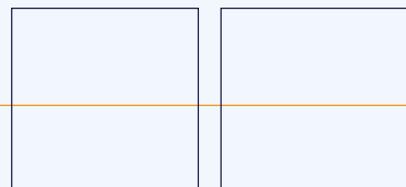


### Dedicated editors

Essential Tools provides more than 20 editors dedicated to meeting every possible need that might arise. These editors will ensure that your data is valid before it gets to the data store, and they easily perform the most complex validation tasks with just a few lines of set-up code.

### Advanced menus – No code needed

The Essential Tools Menus Package ships with the XP Menu framework, providing the latest Office XP look and feel as well as functionality for menus and toolbars. No additional code is required. Menu support can be completely configured using an advanced in-place designer.



# Advanced controls and frameworks for .NET

## Essential Tools Features

### Docking package

Docking Manager      Component that supports advanced VS.NET-type docking and floating windows with full design-time support

### Menus package

Menus and Toolbars      Framework that provides rich, advanced, user-customizable menus, and toolbars

### Editors package

AutoComplete      Control that adds auto-completion support to edit controls  
CalculatorControl      Control that implements common arithmetic operations with a calculator UI  
ColorPickerButton      Control that drops down a standard interface for selecting colors  
ComboBoxes      Controls that display a custom list box, multicolumn list box, etc.  
Currency, Percent, Integer, Double TextBoxes      Controls that supports display, collection, and validation of numeric values  
DateTimePickerAdv      Control that allows date/time values and supports globalization and other advanced features  
MaskedTextBox      Control that supports collecting and validating masked data input

### Notification package

StatusBarAdv      Control that provides advanced status bar styles and features  
PopupControlContainer      Control that supports the creation of custom popups containing any .NET control  
ProgressBarAdv      Control that displays advanced progress bars with extensive customization

### Tabs package

TabControlAdv      Control that features advanced tab control functionality with extensive customization

### Navigation package

GroupBar & GroupView      Controls that allow creation of MS Outlook-like sophisticated navigation interfaces  
XPTaskBar      Control that allows creation of Windows XP Explorer-like collapsible task bars

### Layout Manager package

Flow, Card, Grid, and GridBag      Components that cater to all your layout needs, including localization and layout managers, as well as RTL support

### Tabbed MDI package

VS.Net Style Tabbed MDI      Component that supports horizontal and vertical tab groups for MDIChildren

### Tree package

TreeViewAdv      Control that provides advanced tree control capabilities

### Wizard package

WizardControl      Control that allows creating wizard-like user interfaces from within the VS.NET designer

### XPTaskPane

Control that resembles the task pane in Office XP. It can host a number of task pages that can be browsed using the dropdown menu and arrow buttons on the task pane's header.



System requirements: Microsoft .NET framework 1.0 or later

[www.syncfusion.com](http://www.syncfusion.com)



Advanced, high-performance grouping made effortless

## Essential Grouping Features

### General features

DataSources supported	Any IList whose objects have public properties
Automatic updates	For any IBindingList data source; immediately reflects changes in data
Internal data structures	Uses balanced binary trees; updates only take $O(\log_2(n))$ operations
UI-independent	No UI dependencies - can be used with any .NET control or none at all
Flat grouping	Group flat data structures
Hierarchical grouping	Group nested tables

### Sorting

Sort	Sort by any property from the IList's schema
Comparer sorting	Customize sorting through IComparer objects
Multikey sorting	Sort by multiple properties from the IList's schema

### Filtering

Filters	Hide records that match user-defined criteria
Standard operators	Supports = != < <= > >= Like Match
Custom filters	Customize data filters with virtual callbacks

### Summaries

Summaries	Summarize data on a group-by-group basis
Standard calculations	Sum, Max, Min, Average, Median, Count, DistinctCount, Values array, DistinctValues array
Custom summaries	Add custom summaries

### Expression fields

Expression fields	Add fields calculated from other fields in the same record
Supports expressions	Use any algebraic combination of other numeric fields
Use as a standard field	Sort, group, and filter an Expression field
Supports custom functions	Add your own functions to the existing function library

System requirements: Microsoft .NET framework 1.0 or later

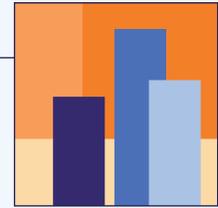


[www.synCFusion.com](http://www.synCFusion.com)

The charting control for business applications

# Essential Chart

A highly customizable charting engine especially suited for use in business applications



Syncfusion Essential Chart is a business-oriented charting component that can be operated on its own or as a companion to our Essential Grid product. It offers an innovative data object model that makes it easy to populate a chart with any kind of data source. Essential Chart is built on the same styles architecture as Essential Grid, making complex multi-level formatting very simple. The software can also be easily extended with custom rendering to create new chart types in addition to those supported out of the box.

Essential Chart is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

## Features

### Easy to use

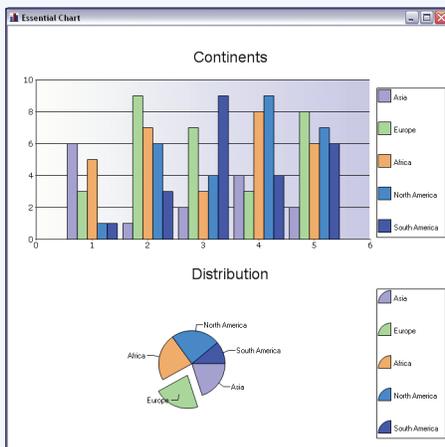
Essential Chart is remarkably easy to use. The included Chart Wizard can be used to customize the appearance of the chart and also aid in generating code for populating the chart.

### Chart types

Essential Chart offers more than 24 chart types that can be configured to suit your needs. The control supports styles-customization of charts at both the series level and the individual point level. Support is also provided for custom charts.

### Flexible data model

The data model of Essential Chart is flexible and separate from its display elements, making application development considerably easier. Essential Chart's basic data model is not tied to the Microsoft data-binding interfaces, unlike many charting engines. It has a core data model that defines data services that pertain only to the chart, making it very easy to implement models that work with any data source.

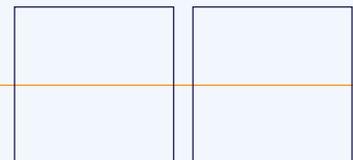


### Integration with Essential Grid and Grouping

Developers will enjoy the freedom to use any common data model for their grids and charts. Essential Grid can also serve as a data model for the chart. Essential Chart data can be seamlessly implemented using the services of Essential Grouping. Filters, summaries, and computed expressions are all supported.

### More

Essential Chart's appearance is fully customizable. It offers advanced support for multiple axes, axis inversion, data formatting, heuristic rounding of values and ranges to "nice values," user interaction events, and zooming.



### Chart types

Line Chart	Display line and spline charts
Area Chart	Display area, spline area, and stacking area charts
Scatter Chart	Display scatter charts
Bar Chart	Display bar charts and stacking bar charts
Candle Chart	Display candle charts
Column Chart	Display column charts and stacking column charts
Hi-Lo Chart	Display Hi-Lo and Hi-Lo-Open-Close charts
Pie Chart	Display pie charts
Combination charts	Display combination charts
Gantt Chart	Display Gantt charts
Radar Chart	Display Radar charts
Financial charts	Display Renko, Three Line Break, Point and Figure charts, and Kagi charts

### Chart data

Flexible data model	Data model is chart-based and not based on ADO.NET
Custom model support	Easy addition of custom models to support any data
Indexed data model	Support for indexed (positional) data
Grouping support	Display grouped data series
Essential Grid interaction	Interacts with Essential Grid
Multiple series	Display multiple series
Date-handling	Dates are natively supported

### Chart appearances

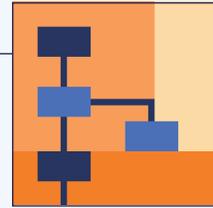
Axes	Customization of axis look and feel
Chart area	Customization of background, borders, grid lines, and elements
Images, symbols, tooltips	Display of images, symbols and tooltips
Strip lines	Display of bands on the chart interior
Zooming	Zooming in on any axis
Styles architecture	Inheritance-based customization system
Color Model	Color scheme support for interiors
Legend	Customization of legend position and styles
Human-readable ranges	Calculation of "nice" ranges for display

System requirements: Microsoft .NET framework 1.0 or later

# Essential Diagram

Powerful diagramming

An extensible and high-performance diagramming engine for your Windows Forms and ASP.NET applications



Syncfusion Essential Diagram is a .NET framework for developing interactive 2-D graphics and diagramming applications. Essential Diagram stores graphical objects in a node graph and renders those objects onto the screen. The software supports both vector and raster graphics on the drawing surface.

Essential Diagram is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

## Features

### Flexible architecture

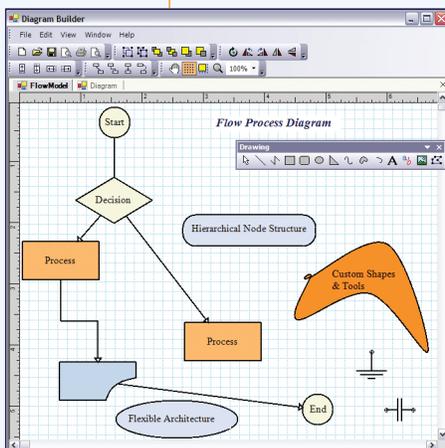
Essential Diagram uses the Model-View-Controller design pattern to clearly separate data, presentation, and user-interaction into individual components. This architecture makes the product modular, easy to use, and easy to customize. Many of the classes and components in the library can be sub-classed, providing developers with the ability to extend and customize the library to meet their needs.

### Drawing tools

Essential Diagram features a wide selection of interactive drawing tools and command objects that can be used to create and edit diagrams. The framework also provides support for custom tools that users can create and register with the controller for their specialized drawing needs.

### Automatic line routing

LineRouting and LineBridging of lines feature an optimized strategy for automatically routing orthogonal links around existing diagram nodes. The default line router can be sub-classed and extended by developers who wish to implement custom routing strategies.



### Custom symbols

Essential Diagram lets you create custom symbols for use in your applications. Custom symbol classes can be defined using the programmatic API, or interactively designed using the powerful SymbolDesigner utility that ships with the product. The full source code for the SymbolDesigner is included to allow users to further customize it based on their needs.

### Visio stencil import

Essential Diagram offers the unique functionality of letting users import Microsoft Visio stencil files (\*.vss files) and converting them into Essential Diagram symbol palettes. This powerful new feature will let you take advantage of the vast selection of shapes that ship with Visio and are commercially available.



## Flexible architecture

Model-View-Controller	Modular separation of data, presentation, and user interface
Hierarchical node structure	Support for hierarchies of nodes
Styles and property inheritance	Properties can be inherited from parent nodes; support for custom properties
User interface tools	User interface features built as modular tool objects
Matrix transformations	Move, scale, and rotate objects using matrix transformations
Command architecture	Commands encapsulated as objects, support for Undo / Redo

## Powerful new features

Automatic LineRouting	Built-in LineRouting and LineBridging automatically routes orthogonal links
Visio stencil import	Unique functionality allows Microsoft Visio stencil files (*.vss files) to be imported and used as diagram symbols
Export formats	Export the diagram as a bitmap, metafile, or any of the .NET image formats New SVGExport feature lets you write out the diagram as an SVG file
Diagram scripting	Define custom behavior for diagram entities at runtime using the Visual Basic, JScript, or CSharp scripting languages

## Customization

Custom symbols	Support for creating custom symbol classes
SymbolDesigner utility	Design custom symbols and organize them into palettes
Sub-class Model, View, and Controller	Create applications with highly specialized rendering requirements

## Controls

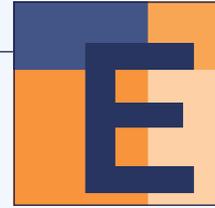
Diagram Windows control	Diagram control that can be placed on forms using the Visual Studio toolbox
Diagram Web control	Diagram Web Server control for use with ASP.NET applications
Symbol palette control	Displays symbol palettes in group bar; allows drag-and-drop of symbols onto diagram
Property editor control	Displays properties of currently selected object or objects in the diagram
Overview control	Provides a perspective view of the diagram model; allows interactive panning and zooming

## User interface features

Scrolling and panning	Scroll, drag scroll, and pan view of diagram
Zooming	Zoom in and out; set magnification as percent value
Selection tool	Select one or more nodes by clicking or dragging mouse
Move tool	Drag-and-drop selected nodes
Resize tool	Resize or scale selected nodes
Rotate tool	Rotate selected nodes
Group / Ungroup tool	Create groups of nodes and remove groups
Shape drawing tools	Draw lines, polylines, rectangles, ellipses, curves, arcs, and polygons
Text tool	Add and edit text nodes
Image tool	Insert bitmap and metafile images
Link tool	Interactive tool for drawing links that connect symbols
ControlNode tool	Create ControlNodes capable of hosting Windows Forms controls
Layout grid	Point grid or line grid provides reference points and snap-to grid support
Rulers	Horizontal / Vertical rulers provide position and measurements in English / metric units

System requirements: Microsoft .NET framework 1.0 or later

# Essential Edit



An easily configurable and extensible edit control for all of your text editing needs

Syncfusion Essential Edit is a syntax highlighting edit control designed to be easy to extend and straightforward to use. Essential Edit supports multi-level Undo / Redo, includes rich formatting options, and provides easy configuration through a simple file. It ships with syntax files for commonly used languages and supports Visual Studio.NET-style collapsible sections. Essential Edit does not derive from the Windows Forms Rich Edit control. It is written from the ground up to be extensible and powerful.

Essential Edit is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

## Features

### Effortless syntax highlighting

When Essential Edit is used, implementing syntax highlighting takes just a few lines of code and greatly improves the readability of any text. Essential Edit offers fully configurable syntax highlighting for universal text-editing purposes.

### Easy configuration

Configuration of syntax highlighting is done using simple text files. Several languages, scripts, and markup, including Pascal, HTML, VB.NET, XML, SQL, and C#, are supported out of the box. Adding support for new languages and scripts entails the creation of a simple XML-based text configuration file. Complex code is not needed.

### Ergonomic editing features

Because the editing interface of Essential Edit is similar to that of popular Microsoft applications users will feel very comfortable working with the control. There is complete support for unlimited Undo / Redo, split views, line numbers, word wrap, and the clipboard. Developers enjoy complete freedom to change any aspect of the editor to suit the needs of their end users.

### More features

Essential Edit offers support for in-place Intelli-sense, configurable margins, wavy underlines, serialization, Unicode and Visual Studio .NET-style collapse / expand with the outlining tooltip. It also offers other useful features such as printing support, action grouping for Undo / Redo, custom cursors, selection and user margins, bookmarks and custom indicators, white space highlighting, single line mode, bracket highlighting and indentation guidelines, content dividers, gradient background, block indent-outdent, action-key binding, quick file loading, and file drop.

```

1 | This demonstrates a C# single-line comment.
2 | /* This demonstrates a C# multiline comment.
3 | This demonstrates a C# multiline comment. */
4 | "This demonstrates the double-quote string."
5 | 'This demonstrates the single-quote string.'
6 |
7 | \ The precedence of tags are determined by their
8 | \ relative positions in the setting file.
9 | \ Since "\\" is defined before "\", "\\" has a higher
10 | \ precedence than "\".
11 | \ Since "\\\" is defined before "\"" and "\", "\\\"
12 | \ has a higher precedence than both "\"" and "\".
13 |
14 | < In addition to multiline comments, you can define other
15 | \ multiline blocks. For example, this block.>
16 | << Multiline tags can share the same end tag. For example,
17 | \ this block has the same end tag with previous block.>
18 |
19 | The following shows the style of MVC wizard code.
20 | //((AFX_MSG_MAP(CMainFrame)
21 | // NOTE - the ClassWizard will add and remove mapping macros here.
22 | // DO NOT EDIT what you see in these blocks of generated code :
23 | ON_WM_CREATE()
24 | //))AFX_MSG_MAP
25 | //
26 | //
27 | //
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30 | //
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Syntax highlighting	Supports language-based syntax highlighting/coloring
Embedded syntax file	Supports loading syntax files from an embedded resource
Undo / Redo support	Support multiple levels of Undo / Redo
Formatting settings	Override settings defined in configuration files
Line number margin	Customize the display and resolution of line numbers
Intelli-Mouse support	Support viewport, keyboard navigation, and Intelli-Mouse scrolling
Proportional font support	Display any font, including proportional fonts
User margin	Display information for individual lines in the user margin
Change monitor	Detects insertions and deletions in the control's text
Color waveline support	Emphasize text by colored waveline underlining
Common languages settings	Built-in settings files to support several commonly used scripts
Intelli-sense	Visual Studio.NET-like Intelli-sense functions
Configuration files	Interpret and display text based on configuration files
Search / Replace dialogue	Built-in VS.NET-like Search / Replace dialogue
File drop	File drag-drop support
Selection	Supports selection of text
Start with new file	Automatically open a new file on loading the application
Current caret location	Access and set current caret position
Bookmarks	Supports bookmarks and custom indicators
Customizable caret width	Set the caret width to a desired value
Indentation	Supports Smart, Block, or None indent types
Indicator margin	Supports customizable indicator margins
Collapse / Expand display	Supports XML / HTML-like collapse / expand editing
Splitting views	Supports VS.NET code editor-like view-splitting function
Customizable line BackColor	Set desired background color to each line
HTML / XML / RTF format	Serialize display text to HTML / XML / RTF
Serialization	Supports file and stream handling features
Unicode support	Supports Unicode word processing and serialization
Selection margin	Supports selection of the entire line by clicking in region
White spaces indicators	Support for indicating white spaces in the document
Bracket highlighting	Support for highlighting matching brackets
Custom cursor	Support for custom cursors
Action grouping	Support for action grouping for Undo / Redo operations
Printing customization	Support for printing, along with print preview and printer dialogue
Single-line mode	Supports single-line mode, which looks like a textbox with syntax highlighting capabilities
Indentation guidelines	Support for indentation guidelines that indicate matching brackets
Content dividers	Support VB.NET-like content dividers in VS.NET code editor
Gradient background	Supports customizable gradient background
Underlines	Support for customizable underlines, including double lines

System requirements: Microsoft .NET framework 1.0 or later