# Reports for WinForms Samples

Please be advised that this ComponentOne software tool is accompanied by various sample projects and/or demos which may make use of other development tools included with the ComponentOne Studios.

###### Reporting Samples

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* + Visual Basic Samples 

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| **Sample** | **Description** |
| Chart | Add charts to reports using **C1Report** and **C1Chart**. |
| CreateReport | Create reports dynamically using code. This sample uses the  **C1Report** component. |
| CustomData | Create custom data source objects for use with C1Report. This sample uses the **C1Report** and **C1PrintPreview** component. |
| Embedded | Load report definitions into the **C1Report** component at design time. This sample uses the **C1Report** and **C1PrintPreview** component. |
| HtmlFields | Render reports to HTML preserving HTML formatting. |
| Newsletter | Create reports without data sources (unbound reports). This sample uses the **C1Report** and **C1PrintPreview** components. |
| NorthWind | View reports imported from the NorthWind database. This sample uses the **C1Report** component. |

* + C# Samples 

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| **Sample** | **Description** |
| AddScriptObject | Add custom objects to C1Report's script engine. |
| AdHocSorting | Select the sorting criteria before rendering the report. |
| ADOReport | Use ADODB.Recordset objects as **C1Report** data sources. |
| Chart | Add charts to reports using **C1Report** and **C1Chart**. This sample uses the **C1Report** and **C1Chart** components. |
| CreateReport | Create reports dynamically using code. This sample uses the  **C1Report** component. |
| CustomFields | Create custom Chart and Gradient fields that can be added to any report. |
| CustomHyperlinks | Perform custom actions when hyperlinks are clicked. |
| CustomPaperSize | Create reports that use custom paper sizes. This sample uses the  **C1Report** and **C1PrintPreview** components. |
| DynamicFormat | Use script properties to format the report based on its contents. This |

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|  | sample uses the **C1Report** component. |
| Email | Send reports by e-mail. |
| ExportXml | Export reports to an XML format. |
| FlexReport | Use a **C1FlexGrid** control as a data source for your reports. |
| HierReport | Create reports based on hierarchical data. This sample uses the  **C1Report** component. |
| HtmlFields | Render reports to HTML preserving HTML formatting. |
| Images | Load images into a report using two methods. |
| MixedOrientation | Renders two **C1Reports** (one portrait, one landscape) into a single PDF document. |
| PageCountGroup | Keep separate page counts for each group in a report. |
| ParameterizedFilter | Create reports with a parameterized filter. |
| ParseParameters | Parse a PARAMETERS statement in a RecordSource string. This sample uses the **C1Report** component. |
| ProgressIndicator | Display a progress indicator form while a report is rendered. |
| ReportBrowser | Open report definition files and list their contents. This sample uses the **C1Report** component. |
| ReportBuilder | Create report definitions automatically based on DataTables. |
| ReportDictionary | Add a custom look up dictionary object to C1Report's script engine. |
| RTFReport | Shows how to render RTF fields in a report. This sample uses the  **C1Report** component. |
| SubReportDataSource | Use custom data sources with subreports. This sample uses the  **C1Report** component. |
| XMLData | Use any XML document as a report data source. This sample uses the **C1Report** component. |
| ZipReport | Compress and encrypt report definition files. This sample uses the  **C1Report** and **C1Zip** components. |

* XML Samples 

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| **Sample** | **Description** |
| CommonTasks | A collection of reports that show how to perform common tasks. |
| SampleReports | XML report definition files that show C1Report's features. |

* C1ReportDesigner Samples 

**Sample Description**

SimpleDesigner Uses the C1ReportDesigner control to implement a simple report

designer.

###### Printing and Previewing Samples

* + Visual Basic and C# Samples 

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| **Sample** | **Description** |
| AutoSizeTable | The sample shows how to adjust the widths of a table's columns based on their content. The sample provides a method **AutoSizeTable** that can be used as-in in any application that needs to automatically size tables based on their content. |
| CoordinatesOfCharsInText | Shows how to use the **GetCharRect()** method (advanced).  The sample shows how to use the **GetCharRect()** method available on RenderText and RenderParagraph classes, which allows to find out the position and size of individual characters in the text. In the sample, a red rectangle is drawn around each character. |
| DataBinding | The sample demonstrates binding to a simple list (including binding to an empty list), binding to a MS Access database, the use of grouping, aggregate functions, and binding of table row/column groups. This sample requires a 2006 v3 version (C1Preview.2 2.0.20063.41002) or later. |
| Hyperlinks | Shows how to create various types of hyperlinks  The sample demonstrates how to create and set up several types of hyperlinks supported by C1PrintDocument and the preview controls: hyperlinks to anchors within the same document, hyperlinks to anchors in other C1PrintDocument objects, hyperlinks to locations within the document (render objects, pages), hyperlinks to external files/URLs. |
| ObjectCoordinates | The sample shows how to connect the coordinates in the preview pane with the objects in the C1PrintDocument being previewed. Methods are provided that find the RenderObject currently under the mouse, query the properties of the object, highlight it in the preview, and manipulate it: change the object's background color, text, or other properties. The changes are immediately reflected in the document.  Note that for highlighting to work this sample requires a 2006 v2 version (C1Preview.2.0.20062.40855) or later. |
| PageLayout1 | Shows how to use the PageLayouts property.  The sample creates a document with different page layouts for the first page, even pages and odd pages. The different layouts are specified declaratively via the PageLayouts property of C1PrintDocument, no even handling is involved. |
| PageLayout2 | Shows how to use the LayoutChangeBefore property of RenderObject. The sample creates a document with an object that forces a page break,  and a different page layout that is "nested" within the current layout, so  that the current layout is automatically restored when the nested object is over. |
| RenderObjects | Introduces most of the RenderObject types provided by C1PrintDocument. The sample creates and previews a C1PrintDocument, in which most of the  RenderObject types provided by C1PrintDocument are included:  RenderArea, RenderText, RenderGraphics, RenderEmpty, RenderImage, RenderRichText, RenderPolygon, RenderTable, RenderParagraph. |

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| RenderTOC | Shows how to use the RenderToc object.  The sample demonstrates how to create the table of contents for a document using the dedicated RenderToc render object. |
| RotatedText | The sample shows how to insert rotated text into **C1PrintDocument.Text**  rotated at different angles is shown. |
| Stacking | Shows how to use stacking rules for render objects' positioning  The sample demonstrates how to use the **RenderObject.Stacking** property to set stacking rules for block (top to bottom and left to right) and inline (left to right) positioning of objects. Relative positioning of objects is also demonstrated. |
| Tables1 | Shows how to create tables, set up table headers and footers.  The sample creates and previews a C1PrintDocument with a table. Demonstrates how to set up table headers (including running headers) and footers. Shows how to add orphan control (the minimum rows printed on the same page before the footer is specified). |
| Tables2 | The sample shows the basic features of tables in C1PrintDocument. The following features of tables are demonstrated:   * Table borders (GridLines property, allowing to specify the 4 outer   and 2 inner lines).   * Borders around individual cells and groups of cells. * Style attributes (including borders) for groups of disconnected cells. * Cells spanning rows and columns. * Content alignment within the cells (spanned or otherwise). * Table headers and footers. * Tags (such as page number/total page count) in table footer. * Style attributes: borders, font and background images. |
| Tables3 | Shows multiple inheritance of styles in C1PrintDocument tables.  The sample demonstrates multiple inheritance of styles in tables. A table with some test data is inserted into the document. Some style attributes are redefined for the styles of a row, a column, and a cell group. Cells at the intersections of the groups inherit styles for all, combining them. |
| TabPosition | Shows how to use the **TabPosition** property of text rendering objects. The sample creates a document with a RenderParagraph object, on which  the **TabPositions** property is defined, specifying the tab positions  calculated on document reflow depending on the current page width. |
| VisibleRowsCols | Demonstrates the Visible property of table rows/columns.  The sample shows the Visible property of RenderTable's rows and columns, that allows to you hide table rows and columns without removing them from the table. This sample requires a 2006 v3 version (C1Preview.2 2.0.20063.41002) or later. |
| WideTables | Shows how to create wide tables spanning several pages  The sample demonstrates the feature of C1PrintDocument which allows rendering of wide objects spanning multiple pages horizontally. To enable this feature, the object's **CanSplitHorz** property should be set to **True**. The preview is also adjusted to better show wide objects (margins are hidden, the gap between pages set to zero, and the end user is prevented from showing the margins). |

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| WrapperDoc | This sample provides source code for a very simple wrapper around the new C1PrintDocument implementing some of the RenderBlock/Measure methods from the "classic" (old) **C1PrintDocument**. This sample may be especially useful to facilitate conversions of applications using the classic preview to the new preview. |
| ZeroWidthRowsCols | Demonstrates the treatment of table columns with zero width.  The sample shows that columns with zero width/rows with zero height are not rendered at all (as if their Visible property were set to **False**). This sample requires a 2006 v3 version (C1Preview.2 2.0.20063.41002) or later. |