

I	ndex

Apostrophe in Filter Date, Part Dialog, Filter <u>Array</u> Email Message (Create) **Array Size** Error Before Form Load **Array Sort** Array, n-D File Management Array, Search Folders, Application ASCII, character Folders, System ASCII, value Format Number Breakpoint, Condition Frozen Mouse Catch (No Exception) Grid, Custom Format Grid, Header Format Client Size Clipboard Grid, Insert NULL Grid, Select First Row Color, Custom Crystal Report and Hover button VS2010 Image, Clear

Image, From File Image From Resource is Numeric **Launch Program** Listbox Items, Select Math.Min Max Multi-Selected Value Object Reference using String **Parsing**

PΙ **Precedence Program Settings** Radio Button, Case Rounding

Screen Properties Scrollbar, Width Search Binding Source Sound String Width String Width No Print Type, MaxValue Type, Min Value Unbound List/Combo User Name Validating & Exit

Web Service, Locate

How To	Instructions
Order of Precedence	*/ %
	+-
	== != < > <= >=
	! (not)
	& &
	11
Format Numbers	.ToString("N") or C or P or D or F
	.ToString("N0") number of decimal places
Declare an array	<pre>int[] myArray = new int[50];</pre>
	int[] myArray = {10,20,30};
Determine size of	myArray.Length
array	
Sort an array	Array.Sort(myArray) //ascending
, and the second	
	Array.Sort(myArray)
	Array.Reverse(myArray) //descending
	//Or define Compare function
Declare a n-D array	<pre>int[,] myArray = new int[2,3];</pre>
Initialize an n-D	foreach(int element in myArray) {
array	<pre>element = 0;</pre>
	}
Search an array	<pre>index = Array.BinarySearch(myArray, findme);</pre>
Get image from file	picBox.Image =
Cl. :	System.Drawing.Image.FromFile("filename");
Clearing an image	<pre>picBox.Image = null;</pre>
Determine the	Integer.MinValue
maximum/minimum	Integer.MaxValue
values for a type	

Use the value of pi π	System.Math.PI
Determine ASCII	value=(int)'W'; //Note single apostrophe character
number for a	
character	
Determine the	str = (char) 65;
character represented	
by an ASCII number	
Extracting part of a	myDate.Month //etc.
Date	
Set the file filter for a	dlg.Filter = "Text Files (*.txt) *.txt
dialog box	All Files (*.*) *.*";
Determine the	strDir = Environment.GetFolderPath(
locations of the	Environment.SpecialFolder.Desktop)
user's system folders	or .MyComputer or .MyDocuments or .MyMusic or .MyPictures or .MyVideos
	or .Recent
	or .SystemDirectory //Not special folder
	or .CurrentDirectory //Not special folder
Determine	Application.StartupPath
application	Application.ExecutablePath //Includes program filename Application.UserAppDataPath
directories	Application.LocalUserAppDataPath
	System.IO.Directory.GetCurrentDirectory
Parsing a delimited	string[] parts;
string (Split)	<pre>parts = myString.split(' '); //Note apostrophes</pre>
Creating a custom	Color.FromArgb(redvalue, greenvalue, bluevalue)
color	
Determine the	//These exclude borders and title bar
workable space of a	this.ClientSize (returns a Size class)
form (client area)	this.ClientSize.Height this.ClientSize.Width
How to create hover	Use the button's MouseEnter and MouseLeave events to
buttons (buttons that	change the color of the button appropriately
change color when	
you touch them with	
the mouse)	
Setting conditional	Set the breakpoint. Right-click the red breakpoint circle and choose
or hit count	the type of breakpoint
breakpoints	
Determine the	SystemInformation.VerticalScrollbarWidth
scrollbar width	In a data grid, add all column widths + ScrollbarWidth + 3 to keep
	horizontal scrollbar from showing
Create list box or	Create a class that contains all the members.
combo box that	Provide a property for each field you need access to.
stores more than one	Add the following method
value, displaying	<pre>public override string ToString() {</pre>
only one, without a	This controls what is displayed in the combo/list.
data adapter.	To access hidden data:
_	Ctype(cmbName.SelectedItem,ClassName).membername

Play a sound	<pre>SoundPlayer simpleSound = New SoundPlayer("@c:\folder\mysound.wav");</pre>
	simpleSound.Play();
Launch another	System.Diagnostics.Process.Start(exefilename)
program	System.Diagnostics.Process.Start(associateddatafilename)
Use a case statement	switch(true) {
to determine which	<pre>case rdoOne.Checked: code here case rdoTwo.Checked: code here</pre>
radio button is	case rdoTwo.Checked: code here
selected	Etc.
	} //end switch
Locate web services	Google WSDL list
Determining the	<pre>smallest = Math.Min(value1, value2);</pre>
smaller / larger of	<pre>largest = Math.Max(value1, value2);</pre>
two numbers ⁴	
Access the Windows	Clipboard.SetDataObject(data)
clipboard	<pre>IDataObject iData = Clipboard.GetDataObject()</pre>
Screen properties	Screen.PrimayScreen
Determine the	Environment.UserName
current user's name	
Access an image in	Be sure to include the image in your project as a
project resources	Project resource file
	Import image using a PictureBox Image property Add Bassact Build B
	Use My Project, Resources, Add Resource, Existing
	Properties.Resources.filename
	(filename will appear without extension)
Select Multiple	Note: Multiple select must be enabled.
Listbox items at run-	lstBox.SetSelected(index, True/False)
time	
Validating and Exit	Exit buttons (and the form close button) ignore CausesValidaton =
	False commands (by design? so can't exit with invalid data). This
	only seems to occur if the validation code opens a message box or
	other dialog box. Solution: display error in a label or error provider
Grid, Select First	grd.CurrentCell = grd.FirstDisplayedCell;
Row	If grid is tied to a data adapter, first row is automatically selected when
	data adapter is filled.

Apostrophe in Filter	A binding source requires apostrophes around a like clause in the filter designation.
	<pre>bndTable.Filter = "Name Like '*" + txtSearch.Text + "*'";</pre>
	These can NOT be replaced with quotation marks. If txtSearch contains an apostrophe (O'Keefe), this statement will cause an exception. To solve the problem, replace all apostrophes in txtSearch with two apostrophes.
	<pre>string filter = txtSearch.Text.Replace("'", "''"); bndTable.Filter = "Name Like '*" + filter + "*'";</pre>
Multi-Select Listbox, Bound, SelectedValues	Selected values are only available for single-select, bound list boxes. However, you can still retrieve the value members from the selected items.
	<pre>foreach(DataRowView itm In myListBox.SelectedItems) { Console.WriteLine(itm.Item(1).ToString); }//end for</pre>
	Note that each item in a bound list box is a DataRowView. This row has indexed columns. This example extracts the value of the second column. You could also use this to store entire rows in a list box (many fields) and extract any field data you may need.
Search a binding source on multiple fields	<pre>bsEmpHours.Position = bsEmpHours.Find("empDate", currRecord.empDate) && bsEmpHours.Find("starttime", currRecord.startTime) && bsEmpHours.Find("endtime", currRecord.endTime);</pre>
Grid, Custom Format	To change the format of a column's data, you first need to define a column style. DataGridViewCellStyle colStyle = New DataGridViewCellStyle
	Then, change the properties of the style (some examples) colStyle.Format = "ddd, MMM d, yyyy"; colStyle.Alignment = DataGridViewContentAlignment.MiddleCenter; colStyle.Font = New Font("Arial Black", 10);
	Finally, apply the style to a column grdName.Columns("Name").DefaultCellStyle = colStyle;
Grid, Custom Column Header Format	Follow the instructions to create a custom grid format <u>above</u> . To apply the style to just a column header, apply the style to the HeaderCell.Style grdName.Columns("Name").HeaderCell.Style = colStyle;
Determine the width of a printed string	(This code is normally inside a PrintPage method) Font myFont = new Font("Arial", 12, FontStyle.Bold); w = ev.Graphics.MeasureString(theString, myFont).Width;

Determine the width of a string before it is printed (without a print document)

This code allows you to check the length of a string on a form to determine how wide (in 100ths of an inch) it will be when it is printed.

```
Graphics g;
System.Drawing.Printing.PrinterSettings instance =
    new System.Drawing.Printing.PrinterSettings();
g = instance.CreateMeasurementGraphics();
Font myFont = new Font("Arial", 12, FontStyle.Bold);
w = g.MeasureString(theString, myFont).Width;
```

Note: font must be int or float (not double)

Error Before Form Load

InvalidOperationException was unhandled

This occurs because some object(s) is causing a TextChanged or ValueChanged event to occur **before** the form load event occurs. Causes:

- Setting a date picker Value at design time
- Using a MaskedTextBox

Solution:

- Reset date picker Value in design
- Don't use MaskedTextBox. The MTB causes a text changed event to occur before Form Load REGARDLESS of any settings
- If you must use a MTB, instantiate currRecord when it is defined (form declarations) and not in frmLoad

File Management

System.IO.File.(pick your file mgt command)

Getting an object reference given the String version of its name

Notes:

this.Controls.Find(string, True) creates an array of objects with the given string name. True designates, *search child elements* .ElementAt(0) returns the first element of the array (should only be one)

System.Diagnostics.Process.Start(Email Message (Create)	This code generates and email message with a TO: list a subject and a body.
"mailto:" + toList + "?subject=" + subject + "&body=" + body); Note: if there is no subject but a body (poor idea), body is preceded by the "?", not the "&" (See Independent Study program) Crystal Reports and VS2012 Crystal Reports won't run. Note: this may be a temporary issue with VS12 and Crystal Reports. Note: even with this fix, running one CR after another or launching a report from another form may still cause errors on some computers. My Project, Compile, Advanced Compile Options Change Target Framework (keep same Framework number, but select the option that DOES NOT include Client Profile In the Solution Explorer, double-click App.config file Replace the <startup> tag all the way down to the </startup> with the following: (startup uselegacyVZRuntimeActivationPolicy="true") (startup) with the following: (startup uselegacyVZRuntimeActivationPolicy="true") (startup) (startup)		
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		int temp; //Needed for TryParse
<u> </u>	EN WITCH Equivalent	if(int.TryParse(strNumber, out temp)

Try/Catch with no	Remove () and everything in between
exception	