



إضافة واجهة عربية في لغة السي شارب (C#) بطريقة احترافية تعريب الحاسبات

عبدالله محمد العيسى
إبداع

مسار المحاضرة

- تعريف بسيط بلغة السي شارب
- دعمها للغة العربية
- كيفية جعل برنامج متعدد اللغات بإضافة واجهة إحترافية
- طرق إضافة الواجهات الإحترافية
- المراجع
- الخاتمة



لغة C#

- الجهة الداعمة
- نوعها



الدعم المقدم للغة العربية

- طريقة الكتابة
- طريقة العرض
- التقويم
- امكانية تسمية المشروع باللغة العربية
- امكانية تسمية الملف (class) باللغة العربية
- امكانية تسمية Methods باللغة العربية

WindowsApplication1 - Microsoft Visual Studio

File Edit View Refactor Project Build Debug Data Tools Window Community Help



Toolbox

General

There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.

التعريب.cs Form1.cs [Design] Form1.Designer.cs Form1.cs

WindowsApplication1, التعريب

```
1 using System;
2 using System.Collections.Generic;
3 using System.Text;
4
5 namespace WindowsApplication1
6 {
7     class التعريب
8     {
9         void تجربة()
10        {
11            التعريب df = new التعريب();
12        }
13    }
14 }
15
```

Solution Explorer - WindowsApplication1

- Solution 'WindowsApplication1' (1 project)
- WindowsApplication1
 - Properties
 - References
 - Form1.cs
 - Program.cs
 - التعريب.cs

Toolbox Server Ex...

Error List

0 Errors 0 Warnings 0 Messages

Description	File	Line	Column	Project

Build succeeded

Ln 4

Col 1

Ch 1

INS

الواجهة الإحترافية

- تحتاج إلى معرفة بعض NameSpaces مثل:
- System.Globalization
 - CultureInfo class
- System.Thread
- System.Resources
 - ResourceManager class
 - GetString()

الطريقة الأولى

- صمم الواجهه التي تريد:

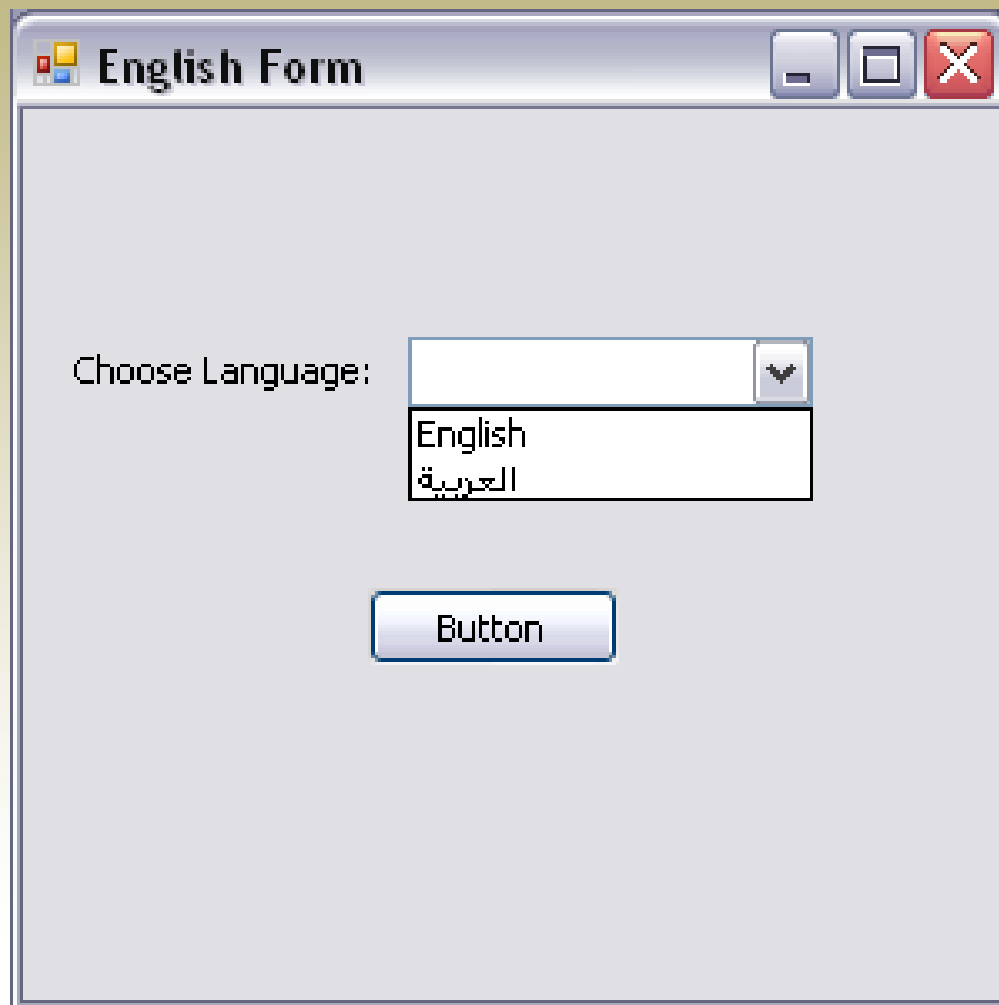


English Form

Choose Language:

Button

الطريقة الأولى



English Form

Choose Language:

English
العربية

Button

الطريقة الأولى

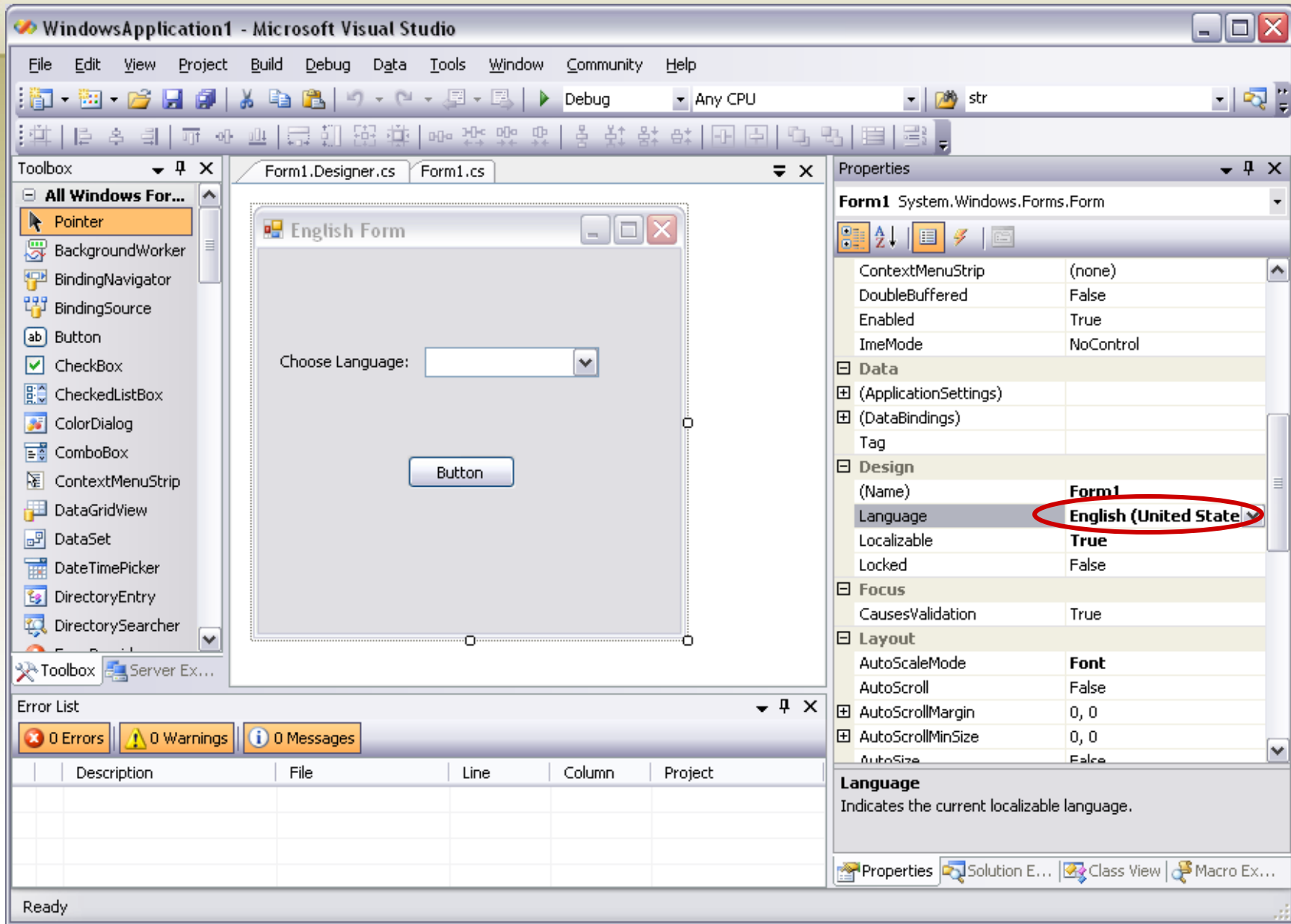


الطريقة الأولى

• استخدم:

```
private void comboBox1_SelectedIndexChanged(object sender, EventArgs e) {
    if(comboBox1.SelectedItem.ToString() == "English"){
        button1.text = "Button";
        lable1.Text = "Choose Language:";
        this.Text = "English Form";
        this.RightToLeftLayout = false;
        this.RightToLeft = RightToLeft.No;
    } else if(comboBox1.SelectedItem.ToString() == "العربية") {
        button1.text = "زر";
        lable1.Text = "إختر اللغة:";
        this.Text = "واجهة عربية";
        this.RightToLeftLayout = true;
        this.RightToLeft = RightToLeft.Yes;
    }
}
```

الطريقة الثانية



The screenshot displays the Microsoft Visual Studio interface for a Windows application. The main window shows a form titled "English Form" with a "Choose Language:" label, a dropdown menu, and a "Button". The Properties window on the right is open, showing the "Form1" object. The "Language" property is highlighted with a red circle and set to "English (United State)".

WindowsApplication1 - Microsoft Visual Studio

File Edit View Project Build Debug Data Tools Window Community Help

Debug Any CPU str

Toolbox

- All Windows For...
- Pointer
- BackgroundWorker
- BindingNavigator
- BindingSource
- Button
- CheckBox
- CheckedListBox
- ColorDialog
- ComboBox
- ContextMenuStrip
- DataGridView
- DataSet
- DateTimePicker
- DirectoryEntry
- DirectorySearcher

Form1 Designer.cs Form1.cs

English Form

Choose Language: [Dropdown]

Button

Properties

Form1 System.Windows.Forms.Form

ContextMenuStrip	(none)
DoubleBuffered	False
Enabled	True
ImeMode	NoControl
Data	
(ApplicationSettings)	
(DataBindings)	
Tag	
Design	
(Name)	Form1
Language	English (United State)
Localizable	True
Locked	False
Focus	
CausesValidation	True
Layout	
AutoScaleMode	Font
AutoScroll	False
AutoScrollMargin	0, 0
AutoScrollMinSize	0, 0
AutoSize	False

Language
Indicates the current localizable language.

0 Errors 0 Warnings 0 Messages

Description	File	Line	Column	Project

Ready

الطريقة الثانية

The screenshot displays the Microsoft Visual Studio interface for a Windows Application project named "WindowsApplication1". The main window shows the "Form1.Designer.cs" file, which contains a visual form titled "English Form". The form has a label "Choose Language:" next to a dropdown menu and a "Button" below it. The "Properties" window on the right shows the properties for the selected "label1" control. The "Text" property is highlighted with a red circle and set to "Choose Language:". The "Error List" window at the bottom shows 0 Errors, 0 Warnings, and 0 Messages.

WindowsApplication1 - Microsoft Visual Studio

File Edit View Project Build Debug Data Tools Window Community Help

Debug Any CPU str

Form1.cs [Desi...United States] Form1.Designer.cs

English Form

Choose Language: [Dropdown]

Button

Properties

label1 System.Windows.Forms.Label

Appearance

- BackColor Control
- BorderStyle None
- Cursor Default
- FlatStyle Standard

Font

- Font Tahoma, 8pt
- ForeColor ControlText
- Image (none)
- ImageAlign MiddleCenter
- ImageIndex (none)
- ImageKey (none)
- ImageList (none)
- RightToLeft No

Text

- Text **Choose Language:**
- TextAlign TopLeft
- UseMnemonic True
- UseWaitCursor False

Behavior

- AllowDrop False
- AutoEllipsis False
- ContextMenuStrip (none)

Error List

0 Errors 0 Warnings 0 Messages

Description	File	Line	Column	Project

Ready

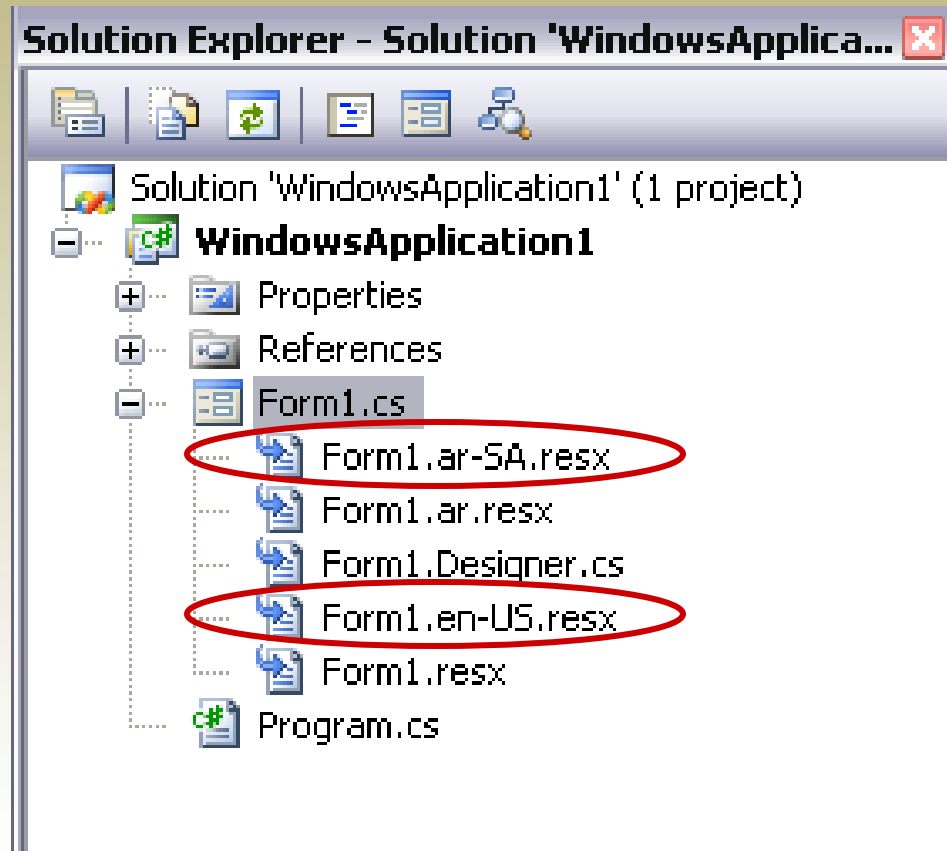
الطريقة الثانية

The screenshot displays the Microsoft Visual Studio IDE for a Windows Application. The main window shows a form titled "Form1" with the text "واجهه عربية" (Arabic Interface) and a dropdown menu labeled "اختر اللغة:" (Select Language:). A button labeled "زر" (Button) is positioned below the dropdown. The Properties window on the right shows the following properties for Form1:

Property	Value
AccessibleRole	Default
Appearance	
BackColor	Control
BackgroundImage	(none)
BackgroundImageLayout	Tile
Cursor	Default
Font	Tahoma, 8pt
ForeColor	ControlText
FormBorderStyle	Sizable
RightToLeft	Yes
RightToLeftLayout	True
Text	واجهه عربية
UseWaitCursor	False
Behavior	
Data	
Design	
(Name)	Form1
Language	Arabic (Saudi Arabia)
Localizable	True
Locked	False
Focus	
Data	

The Language property is circled in red. The Error List at the bottom shows 0 Errors, 0 Warnings, and 0 Messages. The status bar at the bottom indicates "Item(s) Saved".

الطريقة الثانية



الطريقة الثانية

The screenshot displays the Microsoft Visual Studio interface for a project named 'WindowsApplication1'. The main window shows the 'Form1.ar-SA.resx' resource file in design mode. A table lists the resource strings:

Name	Value	Comment
\$this.Text	واجهه عربية	
button1.Text	زر	
label1.Text	اختر اللغة:	
*		

The Solution Explorer on the right shows the project structure, including files like 'Form1.ar-SA.resx', 'Form1.ar.resx', 'Form1.Designer.cs', 'Form1.en-US.resx', 'Form1.resx', and 'Program.cs'. The Error List at the bottom indicates 0 Errors, 0 Warnings, and 0 Messages.



الطريقة الثانية

- استخدم:

```
private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
{
    string choice = comboBox1.SelectedItem.ToString();
    switch (choice)
    {
        case "العربية":
            setThings("ar-SA");
            this.RightToLeftLayout = true;
            this.RightToLeft = RightToLeft.Yes;    this.text= "واجهة عربية";
            break;

        case "English":
            setThings("en-US");
            this.RightToLeftLayout = false;
            this.RightToLeft = RightToLeft.No;    this.text="English Form";
            break;
    }
}
```




الطريقة الثانية

- استخدم:

```
public void setThings(string inputCulture)
{
    ResourceManager rm = new ResourceManager(typeof(Form1));
    Thread.CurrentThread.CurrentCulture = new CultureInfo(inputCulture);
    Thread.CurrentThread.CurrentUICulture = new CultureInfo(inputCulture);
    CultureInfo ci = new CultureInfo(inputCulture);

    label1.Text = rm.GetString("label1.Text", ci);
    button1.Text = rm.GetString("button1.Text", ci);
}
```

الطريقة الثانية

The screenshot displays the Microsoft Visual Studio interface for a Windows Application project named 'WindowsApplication1'. The main design area shows a form titled 'Form1' with a 'Choose Language:' label, a dropdown menu, and a 'Button'. The Properties window on the right shows the 'Form1' object with various properties. The 'Language' property is highlighted and circled in red, indicating it is the current focus. The Error List at the bottom shows 0 errors, 0 warnings, and 0 messages.

Property	Value
ContextMenuStrip	(none)
DoubleBuffered	False
Enabled	True
ImeMode	NoControl
Data	
(ApplicationSettings)	
(DataBindings)	
Tag	
Design	
(Name)	Form1
Language	(Default)
Localizable	True
Locked	False
Focus	
CausesValidation	True
Layout	
AutoScaleMode	Font
AutoScroll	False
AutoScrollMargin	0, 0
AutoScrollMinSize	0, 0
AutoSize	False
Language	
Indicates the current localizable language.	



الطريقة الثالثة

- وهي تشبه الطريقة الثانية ولكنها ابسط

الطريقة الثالثة

The screenshot displays the Microsoft Visual Studio interface for a Windows application named 'WindowsApplication1'. The main design area shows a form titled 'Form1' with a 'Choose Language:' label, a dropdown menu, and a 'Button'. The Properties window on the right shows the 'Language' property of the form is set to '(Default)', highlighted with a red circle. The Error List at the bottom indicates no errors, warnings, or messages.

Description	File	Line	Column	Project

الطريقة الثالثة

The screenshot shows the Microsoft Visual Studio interface for a Windows application named 'WindowsApplication1'. The main design area displays a form with a title bar containing the text 'واجهة عربية' (Arabic Interface). The form contains a button with the text 'زر' (Button) and a dropdown menu with the text 'اختر اللغة:' (Select language:). The Properties window on the right shows the properties for 'Form1' (System.Windows.Forms.Form). The 'Appearance' section is expanded, and the 'RightToLeft' and 'RightToLeftLayout' properties are highlighted with a red circle, showing values 'Yes' and 'True' respectively. The 'Text' property is also circled in red, showing the value 'واجهة عربية'. The 'Behavior' section is also expanded, and the 'Data' section is visible, showing the 'Language' property set to 'Arabic (Saudi Arabia)', which is also circled in red. The 'Error List' at the bottom shows 0 Errors, 0 Warnings, and 0 Messages. The status bar at the bottom indicates 'Ready'.

Property	Value
AccessibleRole	Default
Appearance	
BackColor	Control
BackgroundImage	(none)
BackgroundImageLayout	Tile
Cursor	Default
Font	Tahoma, 8pt
ForeColor	ControlText
FormBorderStyle	Sizable
RightToLeft	Yes
RightToLeftLayout	True
Text	واجهة عربية
UseWaitCursor	False
Behavior	
Data	
Design	
(Name)	Form1
Language	Arabic (Saudi Arabia)
Localizable	True
Locked	False
Focus	
Data	

الطريقة الثالثة

The screenshot displays the Microsoft Visual Studio environment for a Windows Application. The main window shows a form titled "English Form" with a "Choose Language:" label, a dropdown menu, and a "Button". The Properties window on the right shows the following properties for the form:

Property	Value
AccessibleRole	Default
Appearance	
BackColor	Control
BackgroundImage	(none)
BackgroundImageLayout	Tile
Cursor	Default
Font	Tahoma, 8pt
ForeColor	ControlText
FormBorderStyle	Sizable
RightToLeft	No
RightToLeftLayout	False
Text	English Form
UseWaitCursor	False
Behavior	
Data	
Design	
(Name)	Form1
Language	English (United States)
Localizable	True
Locked	False
Focus	

The "Language" property is highlighted with a red circle, and the "RightToLeft" and "RightToLeftLayout" properties are also highlighted with a red circle. The Error List at the bottom shows 0 Errors, 0 Warnings, and 0 Messages. The status bar at the bottom indicates "Item(s) Saved" and shows coordinates (15, 15) and dimensions (300 x 300).

الطريقة الثالثة

English Form


▼ :Choose Language

Button

واجهه عربية

زر

▼ اختر اللغة:



الطريقة الثالثة

- باستخدام:

```
private void comboBox1_SelectedIndexChanged(object sender,
EventArgs e)
{
    string choice = comboBox1.SelectedItem.ToString();
    switch (choice)
    {
        case "العربية":
            setThings("ar-SA");
            //this.RightToLeftLayout = true;
            //this.RightToLeft = RightToLeft.Yes;
            break;
        case "English":
            setThings("en-US");
            //this.RightToLeftLayout = false;
            //this.RightToLeft = RightToLeft.No;
            break;
    }
}
```




الطريقة الثالثة

- باستخدام:

```
public void setThings(string inputCulture)
{
    Thread.CurrentThread.CurrentCulture = new CultureInfo(inputCulture);
    Thread.CurrentThread.CurrentUICulture = new CultureInfo(inputCulture);

    this.Controls.Clear();
    this.InitializeComponent();
}
```

- <http://www.microsoft.com/middleeast/msdn/arabicsupport.aspx>
- <http://msdn.microsoft.com/library/default.asp?url=/library/en-us/cpref/html/frlrfSystemResourcesResourceManagerClassTopic.asp>
- [http://msdn2.microsoft.com/en-us/library/b28bx3bh\(VS.80\).aspx](http://msdn2.microsoft.com/en-us/library/b28bx3bh(VS.80).aspx)

خاتمة

- تعريف بسيط للغة السي شارب
- دعمها للغة العربية
- كيفية جعل برنامج متعدد اللغات بإضافة واجهة إحترافية
- الطريقة الأول
- الطريقة الثاني
- الطريقة الثالث
- المراجع



وشكرا لكم
الأسئلة؟؟؟