



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

Debug Any CPU str

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:

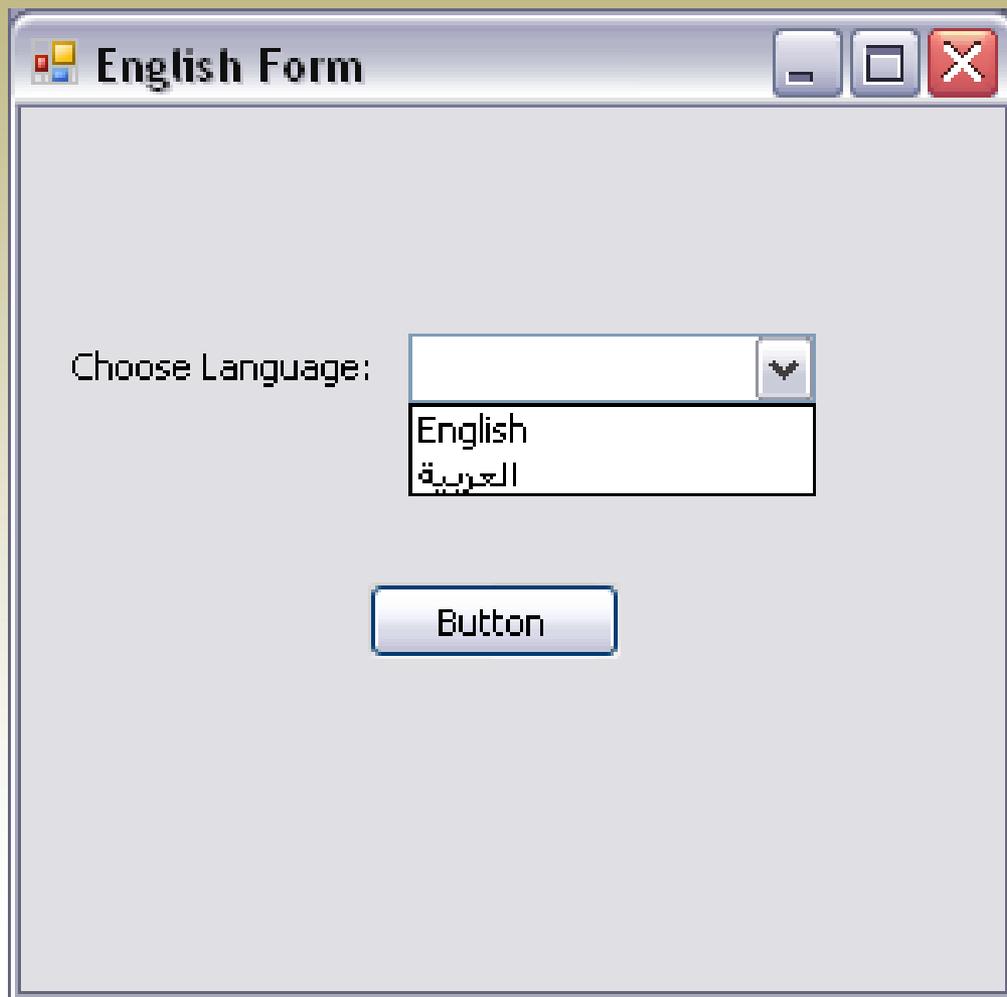


English Form

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 shows the Microsoft Visual Studio IDE with a Windows application named 'WindowsApplication1'. The main window displays a form titled 'English Form' with a 'Choose Language:' label, a dropdown menu, and a 'Button'. The 'Properties' window on the right shows the 'Form1' properties, with the 'Language' property set to 'English (United State)'. The 'Error List' window at the bottom shows 0 Errors, 0 Warnings, and 0 Messages.

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.

الطريقة الثانية

The screenshot displays the Microsoft Visual Studio interface for a Windows Application project named "WindowsApplication1". The main workspace shows a form designer for "Form1.cs [Desi...United States]". The form contains 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 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

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

WindowsApplication1 - Microsoft Visual Studio

File Edit View Project Build Debug Data Tools Window Community Help

Debug Any CPU str

Form1.cs [Desi...(Saudi Arabia)] Form1.Designer.cs

واجهه عربية

اختر اللغة:

زر

Properties

Form1 System.Windows.Forms.Form

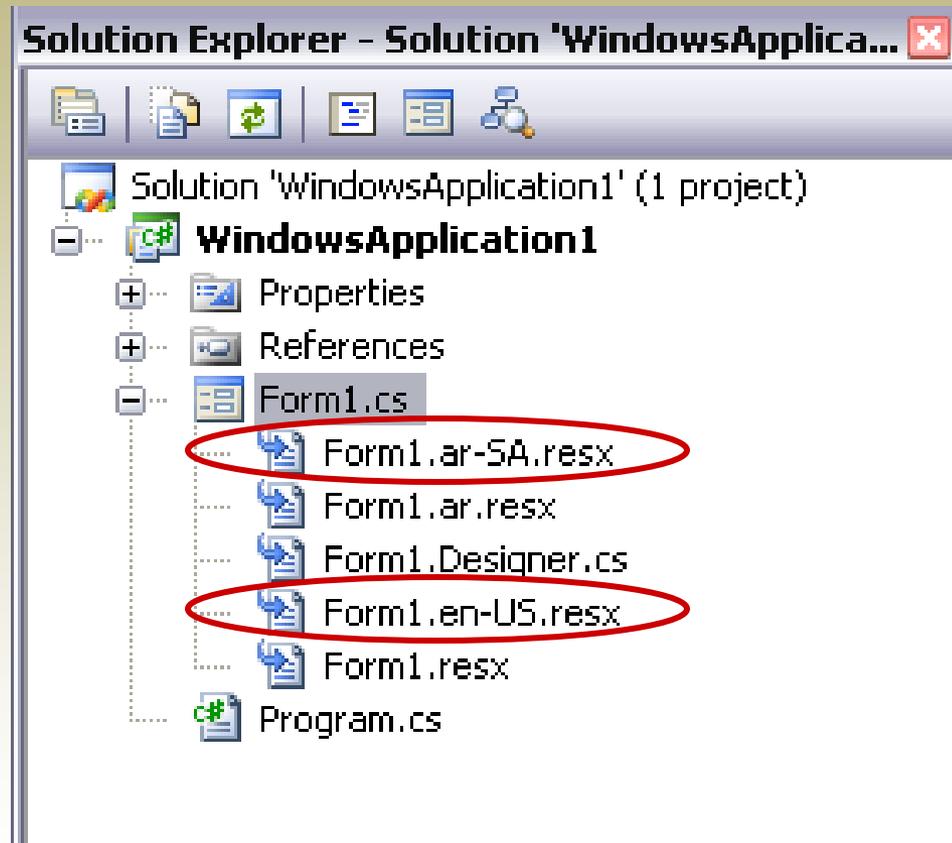
AccessibleRole	Default
Appearance	
BackColor	Control
BackgroundImage	(none)
BackgroundImageLayout	Tile
Cursor	Default
Font	Tahoma, 8pt
ForeColor	ControlText
FormBorderStyle	Sizable
RightToLeft	Yes
RightToLeftLayout	True
Text	واجهه عربية
UseWaitCursor	False
Behavior	
Data	
Design	
(Name)	Form1
Language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

0 Errors 0 Warnings 0 Messages

Description	File	Line	Column	Project

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.cs', 'Form1.Designer.cs', and various resource files. 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 IDE for a Windows application named 'WindowsApplication1'. The main design view 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 button labeled 'زر' (Zar) and a text box labeled 'اختر اللغة:' (Choose the language:). The text 'واجهه عربية' (Arabic interface) is visible in the top right corner of the form. The Properties window on the right shows the 'Form1' properties, with the following values:

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 'Form1' text in the Properties window is circled in red. The 'RightToLeft' and 'RightToLeftLayout' properties are also circled in red. The 'Language' property is set to 'Arabic (Saudi Arabia)'. The 'Form1' text in the design area is also circled in red.

الطريقة الثالثة

The screenshot displays the Microsoft Visual Studio interface for a Windows Application. The main window shows a form titled "English Form" with a dropdown menu labeled "Choose Language:" and a button labeled "Button". The Properties window on the right shows the properties for the selected form, "Form1". The "RightToLeft" property is set to "No", and the "Language" property is set to "English (United States)".

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	
Language	Indicates the current localizable language.

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؟؟؟