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RFID Desktop Reader NEO 2

Windows Forms Code Examples

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RFID System

Desktop Reader NEO 2



MIFARE Classic 1K (ISO 14443A) Tags



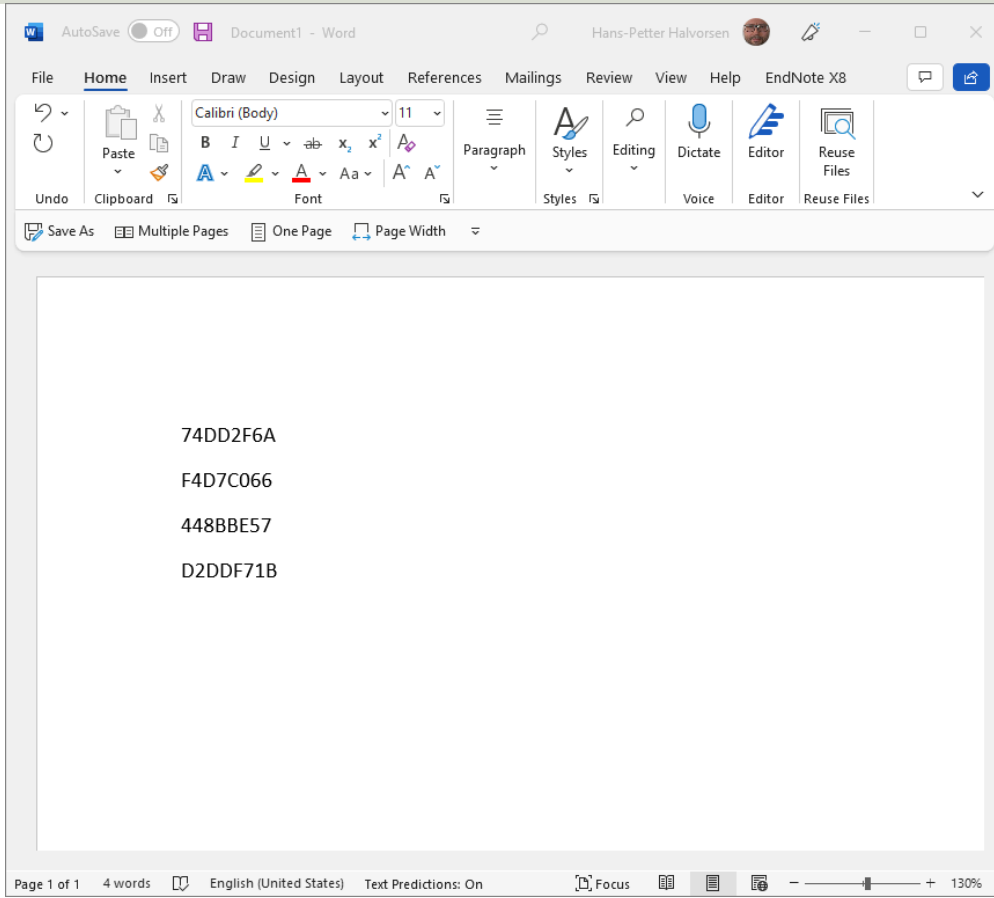
<https://en.idtronic-rfid.com/rfid-readers/rfid-hf-readers/desktop-reader-neo-2/>

<https://www.elfadistelec.no/en/rfid-tag-hf-red-13-56mhz-nxp-mifare-idtronic-kf-mfs50-rd/p/30182163?trackQuery=RFID&pos=30&origPos=30&origPageSize=50&track=true>

Contents

- In this Tutorial we will create a Windows Form Desktop Application that read RFID Tags.
- The hardware is normally ready to use from the factory in so-called HID Mode (which is recommended!!).
- So, you normally don't need to do any configurations!.

Testing

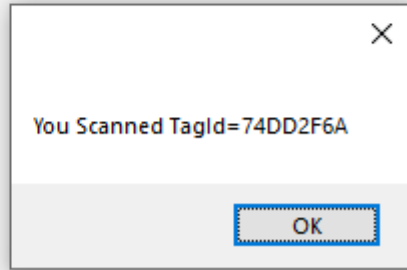
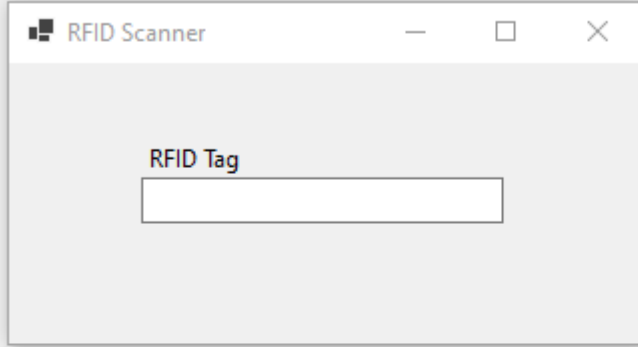


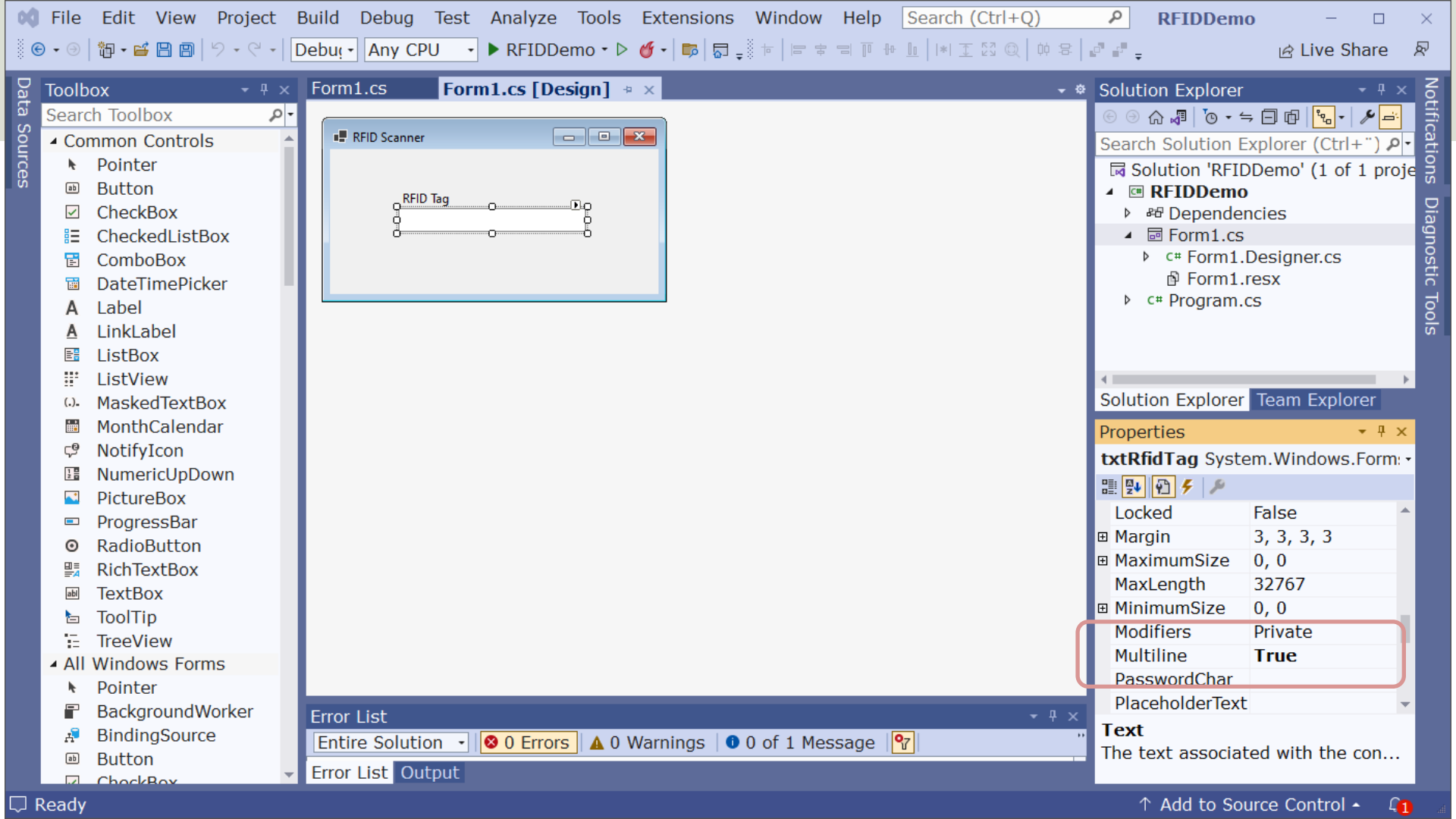
- Plug in the RFID Reader into your PC
- Open MS Word, Notepad, etc.
- Put a RFID Tag on top of the Reader
- Observe that the unique Tag UID is written into MS Word



WinForm C# Examples

WinForm Desktop Application





RFID Scanner

RFID Tag

Properties

txtRfidTag System.Windows.Form:

Locked	False
Margin	3, 3, 3, 3
MaximumSize	0, 0
MaxLength	32767
MinimumSize	0, 0
Modifiers	Private
Multiline	True
PasswordChar	
PlaceholderText	

Text

The text associated with the con...

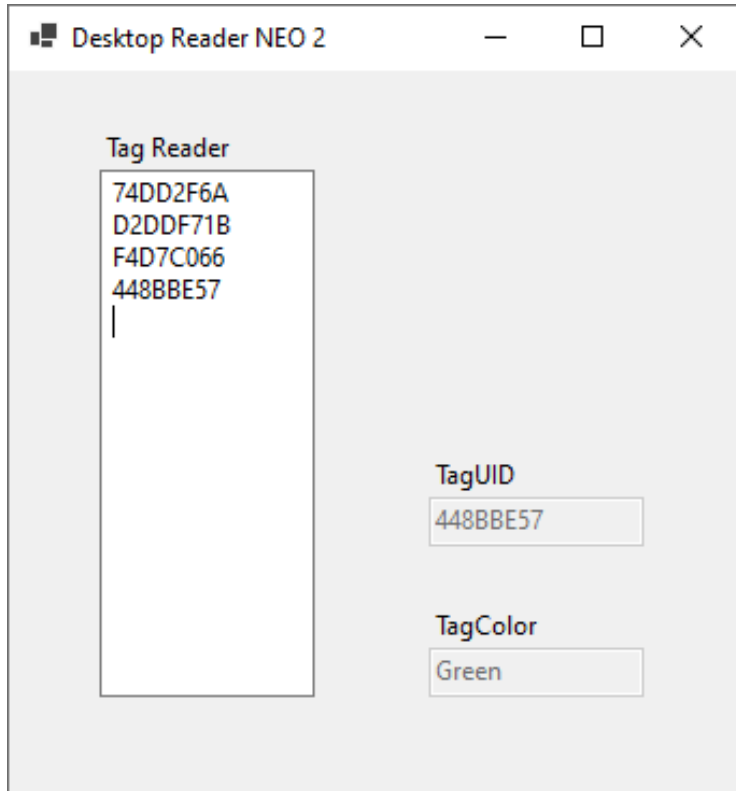
```
namespace RFIDDemo
```

```
{  
    public partial class Form1 : Form  
    {  
        public Form1()  
        {  
            InitializeComponent();  
        }  
  
        private void txtRfidTag_TextChanged(object sender, EventArgs e)  
        {  
            string tagId = txtRfidTag.Text;  
  
            if (tagId.Length > 8)  
            {  
                tagId = tagId.TrimEnd('\r');  
                txtRfidTag.Text = "";  
                MessageBox.Show("You Scanned TagId=" + tagId);  
                txtRfidTag.Focus();  
            }  
        }  
    }  
}
```

The RFID TagId is 8 characters long, e.g., **448BBE57**

The RFID Reader also adds a Carriage Return (\r) that we typically need to remove

WinForm Desktop Application



Toolbox

Search Toolbox

- Common Controls
 - Pointer
 - Button
 - CheckBox
 - CheckedListBox
 - ComboBox
 - DateTimePicker
 - Label
 - LinkLabel
 - ListBox
 - ListView
 - MaskedTextBox
 - MonthCalendar
 - NotifyIcon
 - NumericUpDown
 - PictureBox
 - ProgressBar
 - RadioButton
 - RichTextBox
 - TextBox
 - ToolTip
 - TreeView
- All Windows Forms
 - Pointer
 - BackgroundWorker
 - BindingSource
 - Button
 - CheckBox
 - CheckedListBox

Form1.cs [Design]

Desktop Reader NEO 2

Tag Reader

TagUID

TagColor

Error List

Entire Solution 0 Errors 0 Warnings 0 of 1 Message

Code	Descripti...	Project	File	L... Sup

Error List Output

Solution Explorer

Search Solution Explorer (Ctrl+)

Solution 'Desktop Reader NEO 2'

- Desktop Reader NEO 2
 - Dependencies
 - Form1.cs
 - Form1.Designer.cs
 - Form1.resx
 - Program.cs

Properties

txtRfidReader System.Windows.F...

Location	42, 46
Locked	False
Margin	3, 3, 3, 3
MaximumSize	0, 0
MaxLength	32767
MinimumSize	0, 0
Modifiers	Private
Multiline	True
PasswordChar	
PlaceholderText	

Text

The text associated with the con...

```
private void txtRfidReader_TextChanged(object sender, EventArgs e)
{
    string textRead = txtRfidReader.Text;
    string color = "";

    if (textRead.Length > 8)
    {
        string tagUid = textRead.Substring(textRead.Length - 10, 8);

        if (tagUid == "448BBE57")
            color = "Green";
        else if (tagUid == "74DD2F6A")
            color = "Red";
        else if (tagUid == "F4D7C066")
            color = "Blue";
        else if (tagUid == "D2DDF71B")
            color = "Yellow";

        txtRfidUid.Text = tagUid;
        txtColor.Text = color;
        txtRfidReader.Focus();
    }
}
```

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