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Windows Forms Applications

Create and Use Multiple Forms

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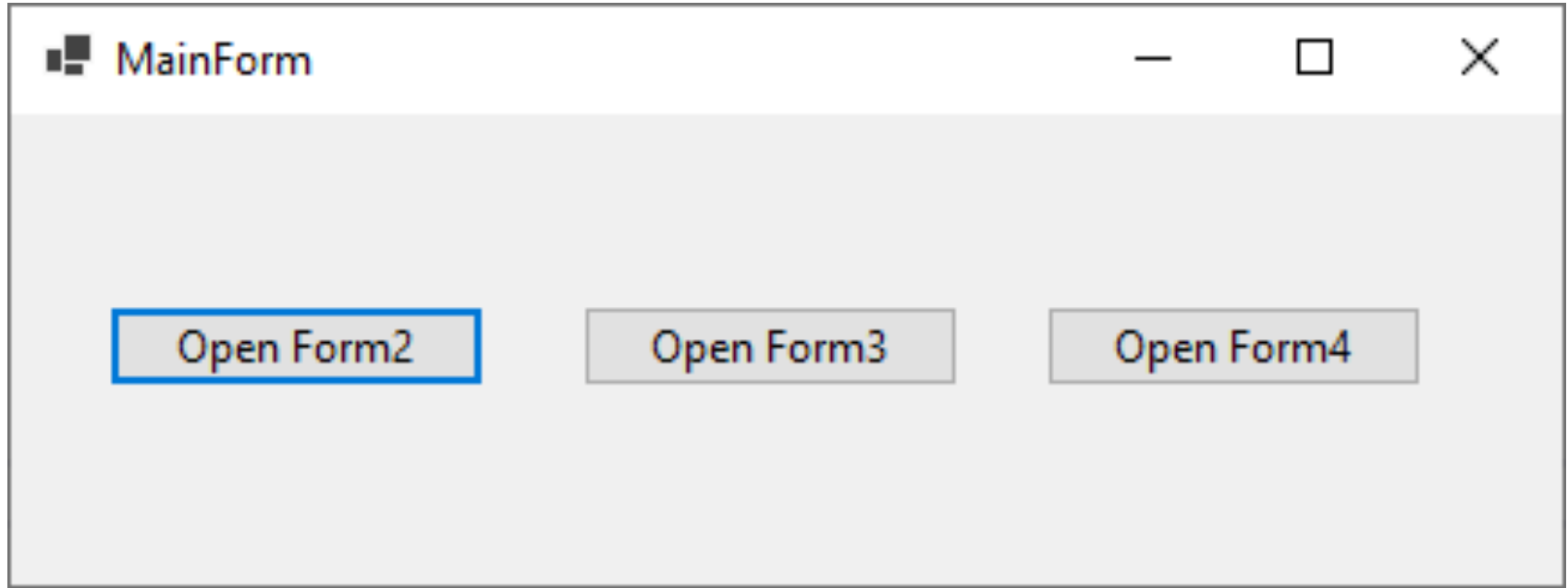
- By creating a Windows Forms Application with only one Form you may end up with a very complicated GUI
- This Tutorial will show how you can create and use Multiple Forms in your WinForms Desktop Application
- Then it is much easier to create a logical and structured GUI



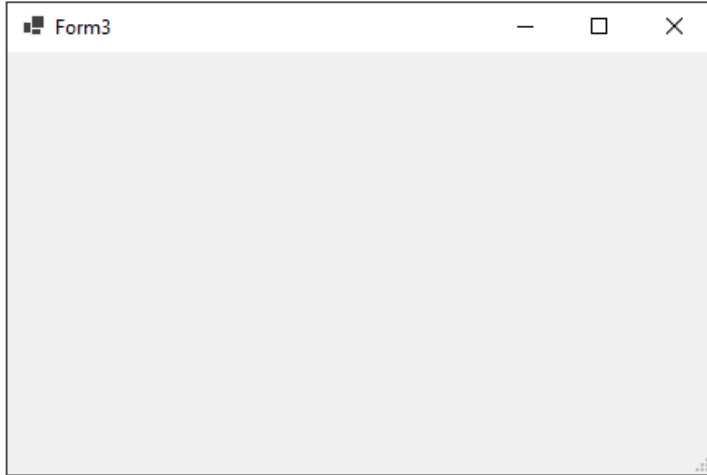
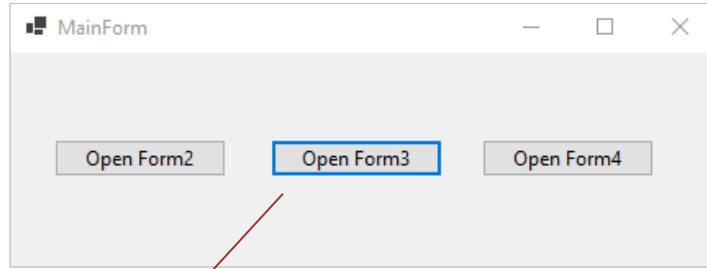
Example1

Create and Open Multiple Forms

Application



Application



```
namespace MultipleFormsEx
{
    public partial class MainForm : Form
    {
        public MainForm()
        {
            InitializeComponent();
        }

        private void btnForm2_Click(object sender, EventArgs e)
        {
            Form2 form2 = new Form2();
            form2.Show();
        }

        private void btnForm3_Click(object sender, EventArgs e)
        {
            Form3 form3 = new Form3();
            form3.ShowDialog();
        }

        private void btnForm4_Click(object sender, EventArgs e)
        {
            this.Hide();

            Form4 form4 = new Form4();
            form4.Show();
        }

        private void MainForm_FormClosed(object sender, FormClosedEventArgs e)
        {
            Application.Exit();
        }
    }
}
```

MainForm

```
namespace MultipleFormsEx
```

```
{
```

```
public partial class Form4 : Form
```

```
{
```

```
public Form4()
```

```
{
```

```
InitializeComponent();
```

```
}
```

```
private void Form4_FormClosed(object sender, FormClosedEventArgs e)
```

```
{
```

```
MainForm formMain = new MainForm();
```

```
formMain.Show();
```

```
}
```

```
}
```

```
}
```



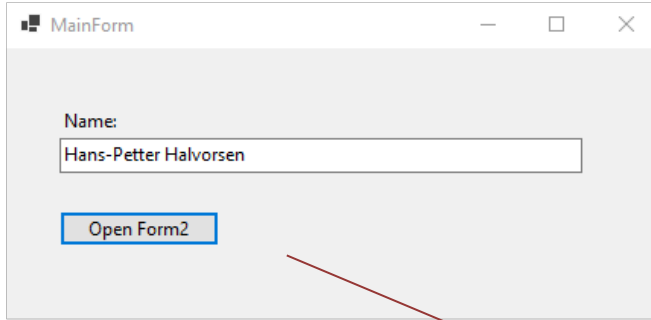
Form4



Example2

Passing Values between 2 Forms

Application

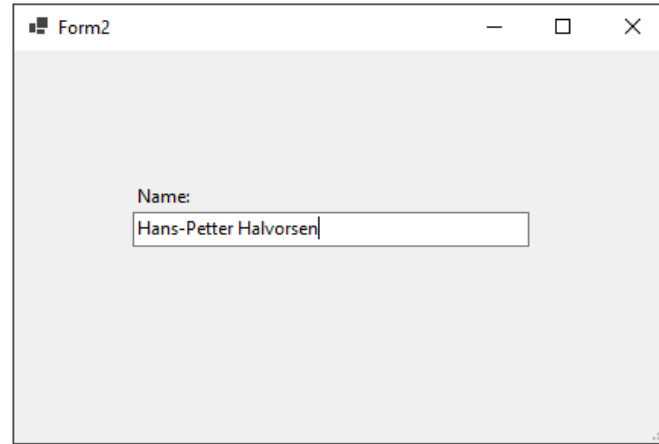


MainForm

Name:
Hans-Petter Halvorsen

Open Form2

A red arrow points from the 'Open Form2' button to the 'Form2' window below.



Form2

Name:
Hans-Petter Halvorsen

Code

Form3

```
namespace MultipleFormsEx
{
    public partial class Form3 : Form
    {
        public Form3(string myName)
        {
            InitializeComponent();
            txtName.Text = myName;
        }
    }
}
```

```
namespace MultipleFormsEx
```

```
{  
    public partial class MainForm : Form
```

MainForm

```
{
```

```
    public MainForm()
```

```
    {
```

```
        InitializeComponent();
```

```
    }
```

```
    private void btnForm3_Click(object sender, EventArgs e)
```

```
    {
```

```
        Form3 form3 = new Form3(txtName.Text);
```

```
        form3.ShowDialog();
```

```
    }
```

```
    private void MainForm_FormClosed(object sender, FormClosedEventArgs e)
```

```
    {
```

```
        Application.Exit();
```

```
    }
```

```
}
```

```
}
```

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