

Use BackgroundWorker to run task at background



Start

```
//File:Window.xaml.cs
using System.ComponentModel;
using System.Threading;
using System.Windows;
using System.Windows.Input;

namespace WpfApplication1
{
    public partial class Window1 : Window
    {
        private BackgroundWorker worker = new BackgroundWorker();

        public Window1()
        {
            InitializeComponent();
            worker.WorkerReportsProgress = true;
            worker.DoWork += new DoWorkEventHandler(worker_DoWork);
            worker.RunWorkerCompleted += new RunWorkerCompletedEventHandler(worker_RunWorkerCompleted);
            worker.ProgressChanged += worker_ProgressChanged;
        }

        private void button_Click(object sender, RoutedEventArgs e)
        {
            worker.RunWorkerAsync();
            this.Cursor = Cursors.Wait;
        }
    }
}
```

```
button.IsEnabled = false;
```

```
}
```

```
private void worker_RunWorkerCompleted(object sender,  
RunWorkerCompletedEventArgs e)
```

```
{
```

```
this.Cursor = Cursors.Arrow;
```

```
if(e.Error != null)
```

```
MessageBox.Show(e.Error.Message);
```

```
button.IsEnabled = true;
```

```
}
```

```
private void worker_DoWork(object sender, DoWorkEventArgs e)
```

```
{
```

```
for(int i = 1; i <= 100; i++) { Thread.Sleep(100);
```

```
worker.ReportProgress(i); } } private void
```

```
worker_ProgressChanged(object sender, ProgressChangedEventArgs
```

```
e) { progressBar.Value = e.ProgressPercentage; } } } [/csharp]
```