

# Implement Application.DoEvents in WPF



Without DoEvents

With DoEvents

```
//File:Window.xaml.cs

using System.Windows;
using System.Windows.Threading;

namespace WpfApplication1
{
    public partial class Window1 : Window
    {
        private delegate void EmptyDelegate();
        public Window1()
        {
            InitializeComponent();
        }

        private void btnWithout_Click(object sender, RoutedEventArgs e)
        {
            LoadNumbers(false);
        }

        private void btnWith_Click(object sender, RoutedEventArgs e)
        {
            LoadNumbers(true);
        }
    }
}
```

```
private void LoadNumbers(bool callDoEvents)
{
listBox.Items.Clear();

btnWithout.IsEnabled = false;
btnWith.IsEnabled = false;

for(int i = 1; i <= 10000; i++) { listBox.Items.Add("Number "
+ i.ToString()); if(callDoEvents){ DoEvents(); } }
btnWithout.IsEnabled = true; btnWith.IsEnabled = true; }
public static void DoEvents() {
Dispatcher.CurrentDispatcher.Invoke(DispatcherPriority.Backgro
und,new EmptyDelegate(delegate{})); } } } [/csharp]
```