

```
1 using Microsoft.Win32;
2 using System.IO;
3 using System.Windows;
4 using System.Windows.Documents;
5 using System.Windows.Media;
6
7 namespace WpfApp4
8 {
9     /// <summary>
10     /// MyDocumentViewer.xaml 的互動邏輯
11     /// </summary>
12     public partial class MyDocumentViewer : Window
13     {
14         Color fontColor = Colors.Black;
15         public MyDocumentViewer()
16         {
17             InitializeComponent();
18             fontColorPicker.SelectedColor = fontColor;
19             foreach (FontFamily fontFamily in Fonts.SystemFontFamilies)
20             {
21                 fontFamilyComboBox.Items.Add(fontFamily.Source);
22             }
23             fontFamilyComboBox.SelectedItem = "Arial";
24             fontSizeComboBox.ItemsSource = new List<double>() { 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 36, 48, 72 };
25             fontSizeComboBox.SelectedIndex = 2;
26         }
27
28         private void NewCommand_Executed(object sender, System.Windows.Input.ExecutedRoutedEventArgs e)
29         {
30             MyDocumentViewer myDocumentViewer = new MyDocumentViewer();
31             myDocumentViewer.Show();
32         }
33
34         private void OpenCommand_Executed(object sender, System.Windows.Input.ExecutedRoutedEventArgs e)
35         {
36             OpenFileDialog openFileDialog = new OpenFileDialog();
37             openFileDialog.Filter = "Rich Text Format (*.rtf)|*.rtf|All files (*.*)|*.*";
38             openFileDialog.DefaultExt = ".rtf";
39             openFileDialog.AddExtension = true;
40
41             if (openFileDialog.ShowDialog() == true)
42             {
43                 FileStream fileStream = new FileStream
44                     (openFileDialog.FileName, FileMode.Open);
45                 TextRange range = new TextRange
46                     (rtbEditor.Document.ContentStart,
47                     rtbEditor.Document.ContentEnd);
48                 range.Load(fileStream, DataFormats.Rtf);
49                 fileStream.Close();
50             }
51         }
52     }
53 }
```

```
47     }
48 }
49
50 private void SaveCommand_Executed(object sender,           ↗
    System.Windows.Input.ExecutedRoutedEventArgs e)
51 {
52     SaveFileDialog saveFileDialog = new SaveFileDialog();
53     saveFileDialog.Filter = "Rich Text Format (*.rtf)|*.rtf|All ↗
        files (*.*)|*.*";
54     saveFileDialog.DefaultExt = ".rtf";
55     saveFileDialog.AddExtension = true;
56
57     if (saveFileDialog.ShowDialog() == true)
58     {
59         TextRange range = new TextRange                   ↗
            (rtbEditor.Document.ContentStart,               ↗
            rtbEditor.Document.ContentEnd);
60         FileStream fileStream = new FileStream             ↗
            (saveFileDialog.FileName, FileMode.Create);
61         range.Save(fileStream, DataFormats.Rtf);
62         fileStream.Close();
63     }
64 }
65
66 private void fontColorPicker_SelectedColorChanged(object ↗
    sender, RoutedPropertyChangedEventArgs<Color?> e)
67 {
68     fontColor = (Color)e.NewValue;
69     SolidColorBrush fontBrush = new SolidColorBrush(fontColor);
70     rtbEditor.Selection.ApplyPropertyValue                 ↗
        (TextElement.ForegroundProperty, fontBrush); //rtbEditor所 ↗
        選擇的文字 的顏色改為fontBrush
71 }
72
73 private void fontSizeComboBox_SelectionChanged(object sender, ↗
    System.Windows.Controls.SelectionChangedEventArgs e)
74 {
75     if (fontSizeComboBox.SelectedItem ≠ null)
76     {
77         rtbEditor.Selection.ApplyPropertyValue           ↗
            (TextElement.FontSizeProperty,                ↗
            fontSizeComboBox.SelectedItem);
78     }
79 }
80
81 private void fontFamilyComboBox_SelectionChanged(object sender, ↗
    System.Windows.Controls.SelectionChangedEventArgs e)
82 {
83     if (fontFamilyComboBox.SelectedItem ≠ null)
84     {
85         rtbEditor.Selection.ApplyPropertyValue           ↗
            (TextElement.FontFamilyProperty,              ↗
            fontFamilyComboBox.SelectedItem);
```

```
86         }
87     }
88
89     private void rtbEditor_SelectionChanged(object sender,
90         RoutedEventArgs e)
91     {
92         var property_bold = rtbEditor.Selection.GetPropertyValue
93             (TextElement.FontWeightProperty);
94         boldButton.IsChecked = (property_bold !=
95             DependencyProperty.UnsetValue) && (property_bold.Equals
96             (FontWeights.Bold));
97
98         var property_italic = rtbEditor.Selection.GetPropertyValue
99             (TextElement.FontStyleProperty);
100         italicButton.IsChecked = (property_italic !=
101             DependencyProperty.UnsetValue) && (property_italic.Equals
102             (FontStyles.Italic));
103
104         var property_underline =
105             rtbEditor.Selection.GetPropertyValue
106             (Inline.TextDecorationsProperty);
107         underlineButton.IsChecked = (property_underline !=
108             DependencyProperty.UnsetValue) &&
109             (property_underline.Equals(TextDecorations.Underline));
110
111         var property_fontFamily =
112             rtbEditor.Selection.GetPropertyValue
113             (TextElement.FontFamilyProperty);
114         fontFamilyComboBox.SelectedItem =
115             property_fontFamily.ToString();
116
117         var property_fontSize =
118             rtbEditor.Selection.GetPropertyValue
119             (TextElement.FontSizeProperty);
120         fontSizeComboBox.SelectedItem = property_fontSize;
121
122         var property_fontColor =
123             rtbEditor.Selection.GetPropertyValue
124             (TextElement.ForegroundProperty);
125         fontColorPicker.SelectedColor = ((SolidColorBrush)
126             property_fontColor).Color;
127     }
128
129     private void trashButton_Click(object sender, RoutedEventArgs
130         e)
131     {
132         rtbEditor.Document.Blocks.Clear();
133     }
134 }
135 }
136
```