```
1 using Microsoft.Win32;
2 using System;
 3 using System.Collections.Generic;
4 using System.IO;
 5 using System.Windows;
 6 using System.Windows.Documents;
7 using System.Windows.Input;
8 using System.Windows.Media;
9
10 namespace WpfApp1
11 {
       /// <summary>
12
13
       /// MyDocumentViewer.xaml 的互動邏輯
14
       /// </summary>
15
       public partial class MyDocumentViewer : Window
16
17
           Color fontColor = Colors.Blue;
           Color backgroundColor = Colors.LightYellow;
18
           public MyDocumentViewer()
19
20
           {
               InitializeComponent();
21
               fontColorPicker.SelectedColor = fontColor;
22
23
               backgroundColorPicker.SelectedColor =
                 backgroundColor;
24
25
               foreach (FontFamily fontFamily in
                 Fonts.SystemFontFamilies)
26
               {
27
                   fontFamilyComboBox.Items.Add(fontFamily);
28
               fontFamilyComboBox.SelectedIndex = 8;
29
30
               fontSizeComboBox.ItemsSource = new List<Double>() >
31
                  { 8, 9, 10, 12, 20, 24, 32, 40, 50, 60, 80,
                 90 };
               fontSizeComboBox.SelectedIndex = 3;
32
           }
33
34
35
           private void NewCommand_Executed(object sender,
             ExecutedRoutedEventArgs e)
36
               // 在這裡實現「新建」的操作,例如打開一個新文件、清空文檔 >
37
               MyDocumentViewer myDocumentViewer = new
38
                 MyDocumentViewer();
               myDocumentViewer.Show();
39
           }
40
```

```
...\C_SHAP_APP\WpfApp1\MyDocumentViewer.xaml.cs
```

```
5
```

```
private void OpenCommand_Executed(object sender,
             ExecutedRoutedEventArgs e)
42
           {
               OpenFileDialog fileDialog = new OpenFileDialog();
43
               fileDialog.Filter = "RTF 檔案|*.rtf|HTML 檔案|
44
                  *.html | 所有檔案 | *.*";
45
               if (fileDialog.ShowDialog() == true)
46
47
48
                    string fileName = fileDialog.FileName;
                    string fileExtension = Path.GetExtension
49
                   (fileName);
50
51
                    TextRange range = new TextRange
                   (rtbEditor.Document.ContentStart,
                   rtbEditor.Document.ContentEnd);
52
                    if (fileExtension.Equals(".rtf",
53
                   StringComparison.OrdinalIgnoreCase))
54
                    Ş
                        // RTF 格式
55
                        using (FileStream fileStream = new
56
                   FileStream(fileName, FileMode.Open))
57
58
                            range.Load(fileStream,
                   DataFormats.Rtf);
59
                        }
                    }
60
                    else if (fileExtension.Equals(".html",
61
                   StringComparison.OrdinalIgnoreCase))
62
                    {
                        // HTML 格式
63
                        using (FileStream fileStream = new
64
                   FileStream(fileName, FileMode.Open))
65
                            range.Load(fileStream,
66
                   DataFormats.Html);
67
                        }
                    }
68
69
                    else
                    {
70
                        MessageBox.Show("不支援的檔案格式");
71
                    }
72
               }
73
           }
74
75
76
           private void SaveCommand_Executed(object sender,
```

```
ExecutedRoutedEventArgs e)
            {
 77
 78
                SaveFileDialog fileDialog = new SaveFileDialog();
 79
                fileDialog.Filter = "RTF 檔案|*.rtf|HTML 檔案|
                   *.html | 所有檔案 | *.*";
 80
                if (fileDialog.ShowDialog() == true)
 81
 82
 83
                     string fileName = fileDialog.FileName;
                     string fileExtension = Path.GetExtension
 84
                    (fileName);
 85
 86
                     TextRange range = new TextRange
                    (rtbEditor.Document.ContentStart,
                    rtbEditor.Document.ContentEnd);
 87
                     if (fileExtension.Equals(".rtf",
 88
                    StringComparison.OrdinalIgnoreCase))
 89
 90
                         // RTF 格式
                         using (FileStream fileStream = new
 91
                    FileStream(fileName, FileMode.Create))
 92
                         {
                             range.Save(fileStream,
 93
                    DataFormats.Rtf);
 94
                         }
 95
                     }
                     else if (fileExtension.Equals(".html",
 96
                    StringComparison.OrdinalIgnoreCase))
 97
                         // HTML 格式
 98
                         using (FileStream fileStream = new
 99
                    FileStream(fileName, FileMode.Create))
100
                         {
101
                             range.Save(fileStream,
                    DataFormats.Html);
                         }
102
                     }
103
104
                     else
105
                     {
                         MessageBox.Show("不支援的檔案格式");
106
                     }
107
                }
108
            }
109
110
111
112
            private void rtbEditor_SelectionChanged(object
```

```
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                                                                     5
140
141
142
             private void fontColorPicker_SelectedColorChanged
              (object sender,
              RoutedPropertyChangedEventArgs<Color?> e)
             {
143
                 fontColor = (Color)e.NewValue;
144
                 SolidColorBrush fontBrush = new SolidColorBrush
145
                   (fontColor);
146
                 rtbEditor.Selection.ApplyPropertyValue
                                                                     P
                   (TextElement.ForegroundProperty, fontBrush);
            }
147
148
             private void fontFamilyComboBox_SelectionChanged
149
                                                                     P
              (object sender,
              System.Windows.Controls.SelectionChangedEventArgs
              e)
             {
150
                 if (fontFamilyComboBox.SelectedItem != null)
151
152
153
                     rtbEditor.Selection.ApplyPropertyValue
                    (TextElement.FontFamilyProperty,
                    fontFamilyComboBox.SelectedItem);
                 }
154
155
            }
156
157
             private void fontSizeComboBox_SelectionChanged(object >
               sender,
              System.Windows.Controls.SelectionChangedEventArgs
              e)
             {
158
                 if (fontSizeComboBox.SelectedItem != null)
159
160
161
                     rtbEditor.Selection.ApplyPropertyValue
                                                                     P
                    (TextElement.FontSizeProperty,
                    fontSizeComboBox.SelectedItem);
                 }
162
            }
163
164
165
             private void clearButton_Click(object sender,
              RoutedEventArgs e)
166
             {
167
                 rtbEditor.Document.Blocks.Clear();
168
            }
169
170
            private void
              BackgroundColorPicker_SelectedColorChanged(object
```

```
...\C_SHAP_APP\WpfApp1\MyDocumentViewer.xaml.cs
```

```
sender, RoutedPropertyChangedEventArgs<Color?> e)
            {
171
                if (backgroundColorPicker.SelectedColor.HasValue)
172
173
                 {
                     SolidColorBrush backgroundBrush = new
174
                    SolidColorBrush
                    (backgroundColorPicker.SelectedColor.Value);
                    rtbEditor.Background = backgroundBrush;
175
176
                 }
            }
177
178
179
        }
180 }
```