

RTF to HTML .Net

(Multi-platform .Net library)

SautinSoft

Linux development manual

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1. Preparing environment

In order to build multi-platform applications using .NET Core on Linux, the first steps are for installing in our Linux machine the required tools.

We need to install .NET Core SDK from Microsoft and to allow us to develop easier, we will install an advance editor with a lot of features, Visual Studio Code from Microsoft.

Both installations are very easy and the detailed description can be found by these two links:

[Install .NET Core SDK for Linux.](#)

Windows

Linux

macOS

.NET
Core

.NET Core 2.2

.NET Core is a cross-platform version of .NET for building websites, services, and console apps.

Build Apps ⓘ

Install .NET Core SDK

Run Apps ⓘ

Install .NET Core Runtime

[Install VS Code for Linux.](#)

Once installed VS Code, you need to install a C# extension to facilitate us to code and debugging:

Install [C# extension.](#)

In next paragraphs we will explain in detail how to create simple console application. All of them are based on this VS Code guide:

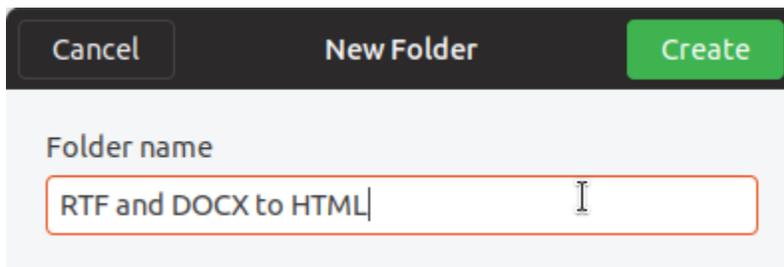
[Get Started with C# and Visual Studio Code](#)

Not only is possible to create .NET Core applications that will run on Linux using Linux as a developing platform. It is also possible to create it using a Windows machine and any modern Visual Studio version, as Microsoft Visual Studio Community 2017.

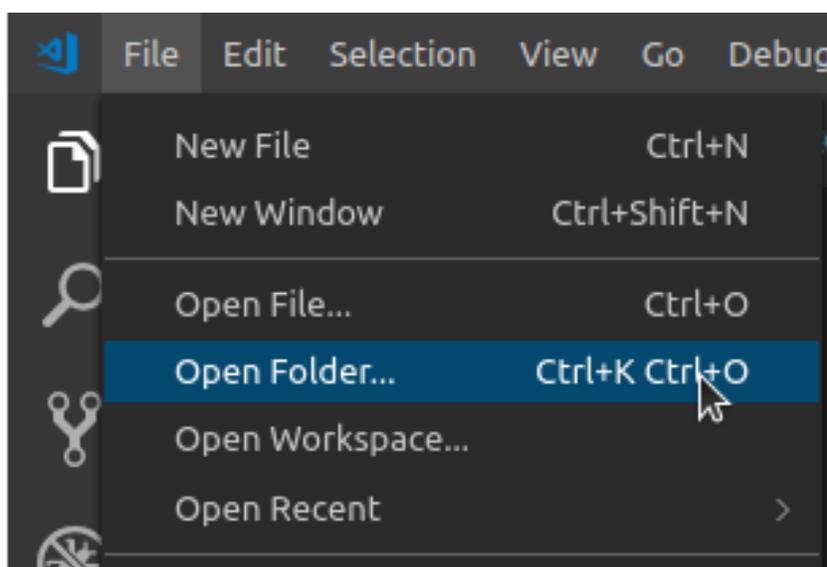
2. Creating “Convert RTF/DOCX to HTML” app

Create a new folder in your Linux machine with the name **RTF and DOCX to HTML**.

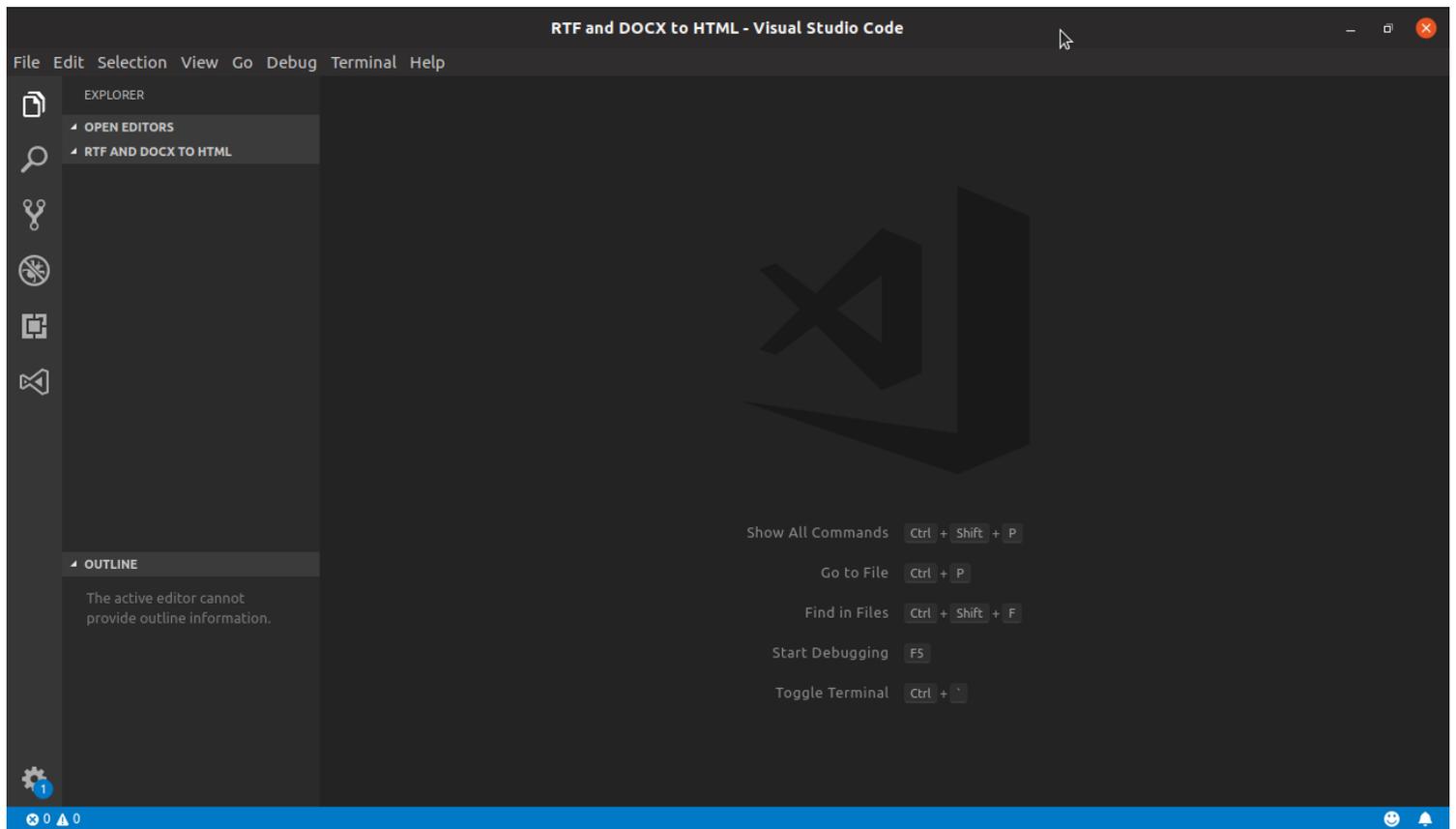
For example, let’s create the folder “**RTF and DOCX to HTML**” on the Desktop (Right click-> New Folder)



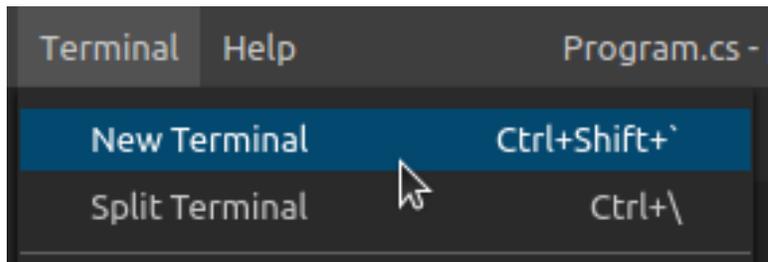
Open VS Code and click in the menu **File->Open Folder**. From the dialog, open the folder you’ve created previously:



Next you will see the similar screen:

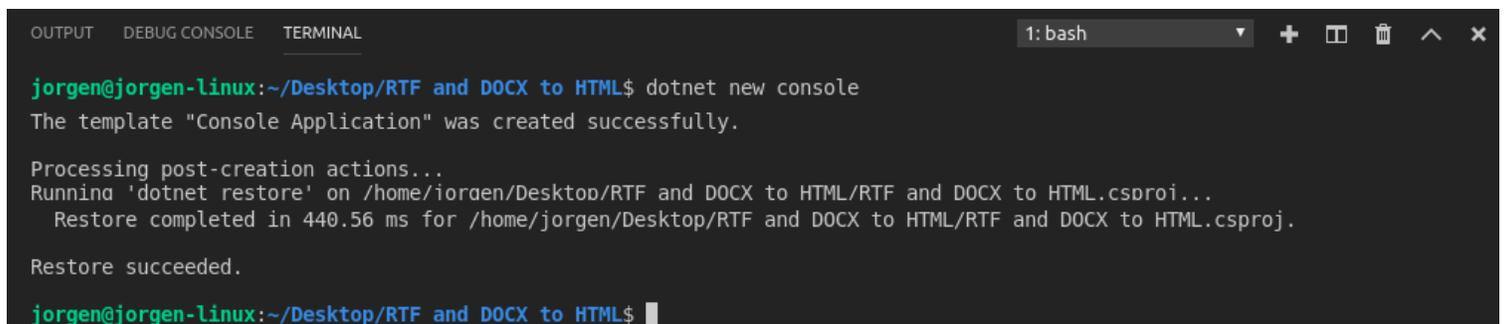


Now, open the integrated console – the Terminal: follow to the menu **Terminal** -> **New Terminal** (or press Ctrl+Shift+`):



Create a new console application, using **dotnet** command.

Type this command in the Terminal console: **dotnet new console**



A new simple ***Hello world!*** console application has been created. To execute it, type this command: ***dotnet run***

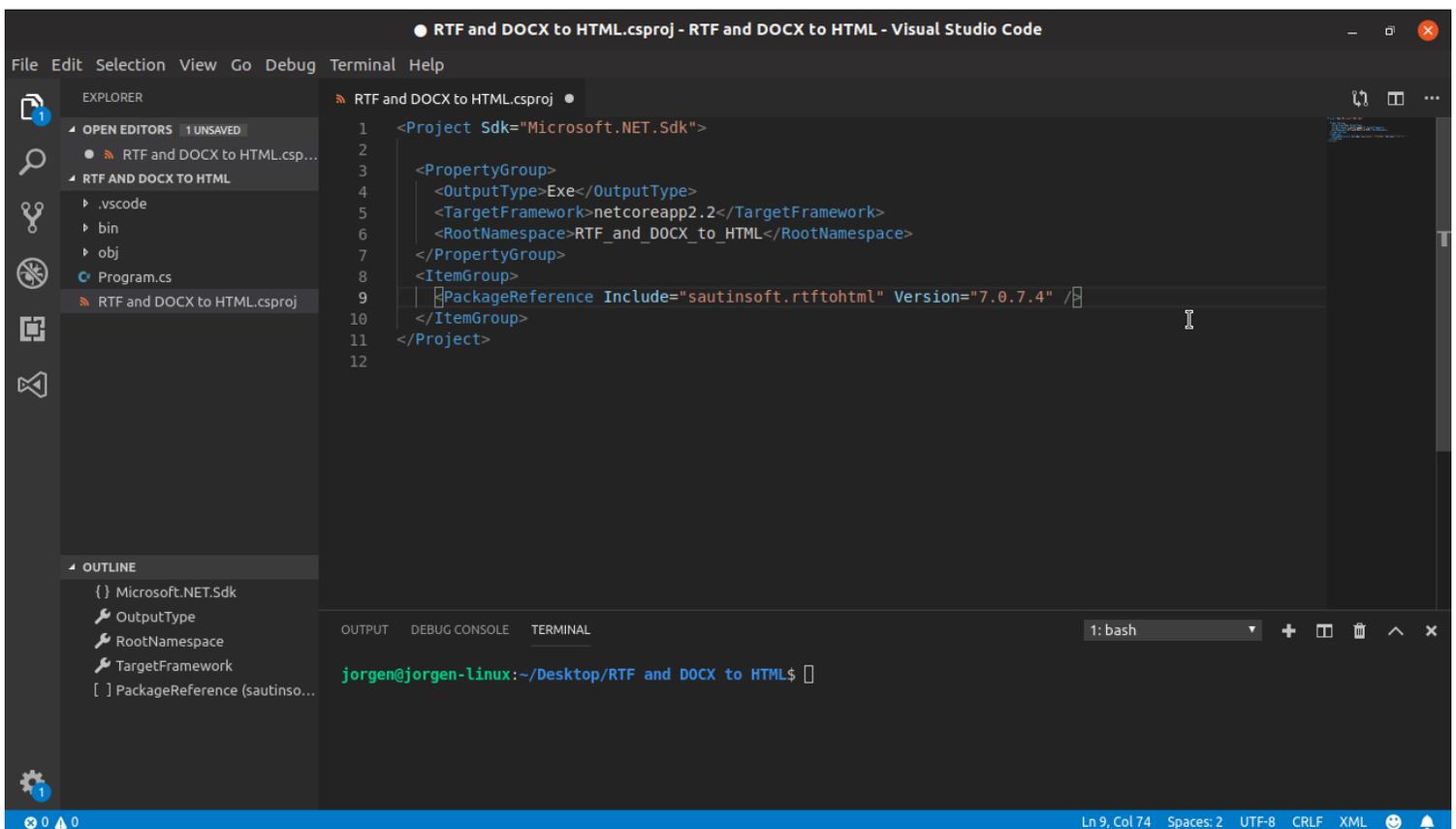


```
OUTPUT  DEBUG CONSOLE  TERMINAL
1: bash
joraen@joraen-linux:~/Desktop/RTF and DOCX to HTML$ dotnet run
Hello World!
jorgen@jorgen-linux:~/Desktop/RTF and DOCX to HTML$
```

You can see the typical “Hello world!” message.

Now we are going to convert this simple application into something more interesting. We’ll transform it into an application that will convert rtf and docx files into HTML format. First of all, we need to add the package reference to the ***sautinsoft.rtfhtml*** assembly using Nuget.

In order to do it, follow to the ***Explorer*** and open project file “***RTF and DOCX to HTML.csproj***” within VS Code to edit it:



```
RTF and DOCX to HTML.csproj - RTF and DOCX to HTML - Visual Studio Code
File Edit Selection View Go Debug Terminal Help
EXPLORER
OPEN EDITORS 1 UNSAVED
RTF and DOCX to HTML.csproj
RTF AND DOCX TO HTML
.vscode
bin
obj
Program.cs
RTF and DOCX to HTML.csproj
OUTLINE
Microsoft.NET.Sdk
OutputType
RootNamespace
TargetFramework
PackageReference (sautinso...
RTF and DOCX to HTML.csproj
1 <Project Sdk="Microsoft.NET.Sdk">
2
3 <PropertyGroup>
4 <OutputType>Exe</OutputType>
5 <TargetFramework>netcoreapp2.2</TargetFramework>
6 <RootNamespace>RTF_and_DOCX_to_HTML</RootNamespace>
7 </PropertyGroup>
8 <ItemGroup>
9 | <PackageReference Include="sautinsoft.rtfhtml" Version="7.0.7.4" />
10 </ItemGroup>
11 </Project>
12
OUTPUT  DEBUG CONSOLE  TERMINAL
1: bash
jorgen@jorgen-linux:~/Desktop/RTF and DOCX to HTML$
```

Add these lines into the file “***RTF and DOCX to HTML.csproj***”:

```
<ItemGroup>
    <PackageReference Include="sautinsoft.rtfhtml" Version="7.0.7.4" />
```

</ItemGroup>

It's the reference to **sautinsoft.rtftohtml** package from Nuget.

At the moment of writing this manual, the latest version of **sautinsoft.rtftohtml** was 7.0.7.4. But you may specify the latest version, to know what is the latest, follow:

<https://www.nuget.org/packages/sautinsoft.rtftohtml/>

At once as we've added the package reference, we have to save the "**RTF and DOCX to HTML.csproj**" and restore the added package.

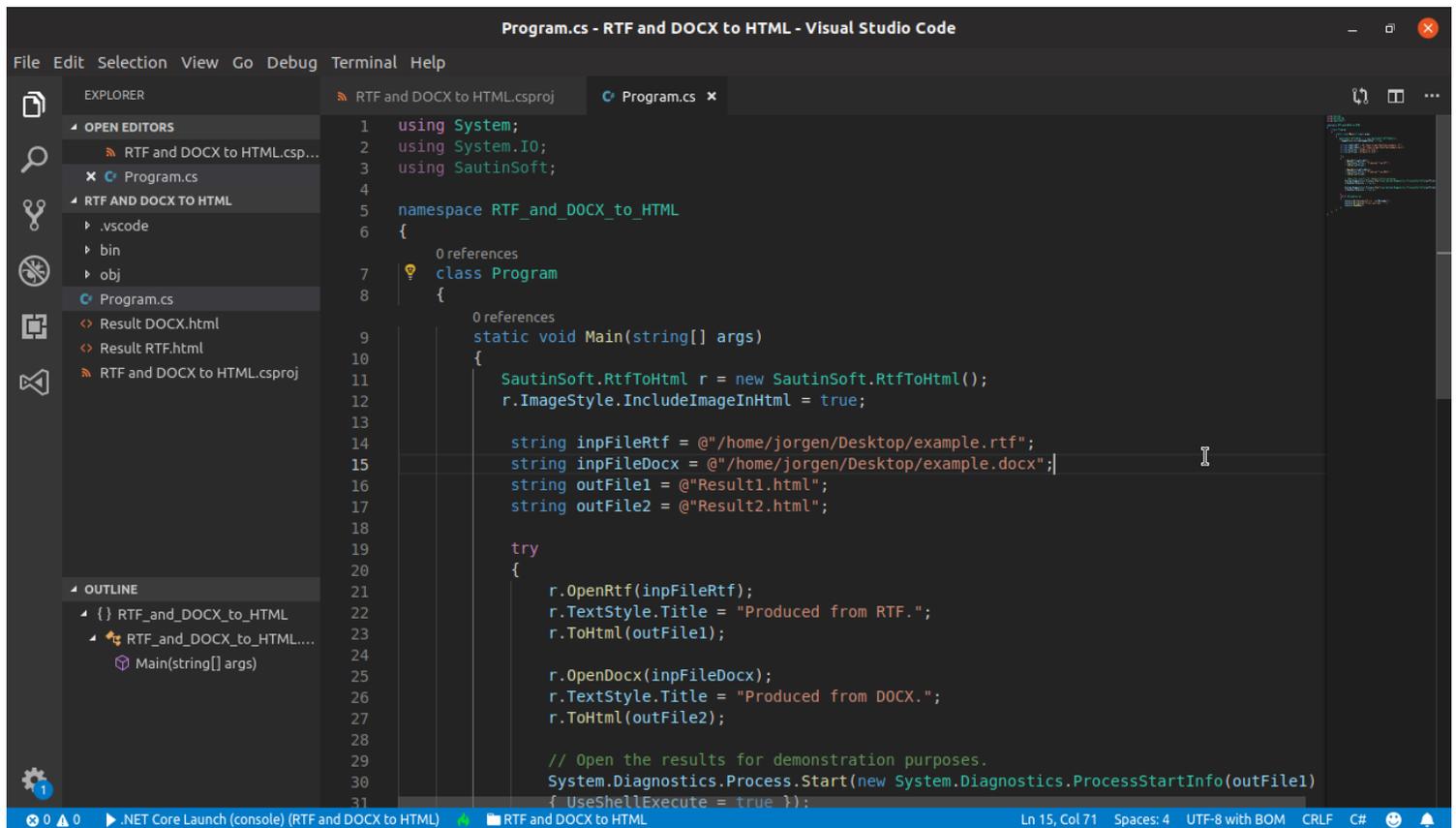
Follow to the **Terminal** and type the command: **dotnet restore**



```
OUTPUT  DEBUG CONSOLE  TERMINAL  2: bash
jorgen@jorgen-linux:~/Desktop/RTF and DOCX to HTML$ dotnet restore
Restore completed in 157.2 ms for /home/jorgen/Desktop/RTF and DOCX to HTML/RTF and DOCX to HTML.csproj.
jorgen@jorgen-linux:~/Desktop/RTF and DOCX to HTML$
```

Good, now our application has the reference to **sautinsoft.rtftohtml** package and we can write the code to convert DOCX and RTF documents into HTML format.

Follow to the **Explorer**, open the **Program.cs**, remove all the code and type the new:



```
Program.cs - RTF and DOCX to HTML - Visual Studio Code
File Edit Selection View Go Debug Terminal Help
EXPLORER
  RTF and DOCX to HTML.csproj
  Program.cs
  RTF AND DOCX TO HTML
    .vscode
    bin
    obj
    Program.cs
  Result DOCX.html
  Result RTF.html
  RTF and DOCX to HTML.csproj
  RTF and DOCX to HTML
    RTF_and_DOCX_to_HTML
      RTF_and_DOCX_to_HTML....
        Main(string[] args)
OUTLINE
  RTF_and_DOCX_to_HTML
  RTF_and_DOCX_to_HTML....
  Main(string[] args)
1 using System;
2 using System.IO;
3 using SautinSoft;
4
5 namespace RTF_and_DOCX_to_HTML
6 {
7     0 references
8     class Program
9     {
10        0 references
11        static void Main(string[] args)
12        {
13            SautinSoft.RtfToHtml r = new SautinSoft.RtfToHtml();
14            r.ImageStyle.IncludeImageInHtml = true;
15
16            string inpFileRtf = @"/home/jorgen/Desktop/example.rtf";
17            string inpFileDocx = @"/home/jorgen/Desktop/example.docx";
18            string outFile1 = @"Result1.html";
19            string outFile2 = @"Result2.html";
20
21            try
22            {
23                r.OpenRtf(inpFileRtf);
24                r.TextStyle.Title = "Produced from RTF.";
25                r.ToHtml(outFile1);
26
27                r.OpenDocx(inpFileDocx);
28                r.TextStyle.Title = "Produced from DOCX.";
29                r.ToHtml(outFile2);
30
31                // Open the results for demonstration purposes.
32                System.Diagnostics.Process.Start(new System.Diagnostics.ProcessStartInfo(outFile1)
33                { UseShellExecute = true });
34            }
35        }
36    }
37 }
```

The new code:

```
using System;
using System.IO;
using SautinSoft;

namespace RTF_and_DOCX_to_HTML
{
    class Program
    {
        static void Main(string[] args)
        {
            SautinSoft.RtfToHtml r = new SautinSoft.RtfToHtml();
            r.ImageStyle.IncludeImageInHtml = true;

            string inpFileRtf = @"/home/jorgen/Desktop/example.rtf";
            string inpFileDocx = @"/home/jorgen/Desktop/example.docx";
            string outFile1 = @"Result1.html";
            string outFile2 = @"Result2.html";

            try
            {
                r.OpenRtf(inpFileRtf);
                r.TextStyle.Title = "Produced from RTF.";
                r.ToHtml(outFile1);

                r.OpenDocx(inpFileDocx);
                r.TextStyle.Title = "Produced from DOCX.";
                r.ToHtml(outFile2);

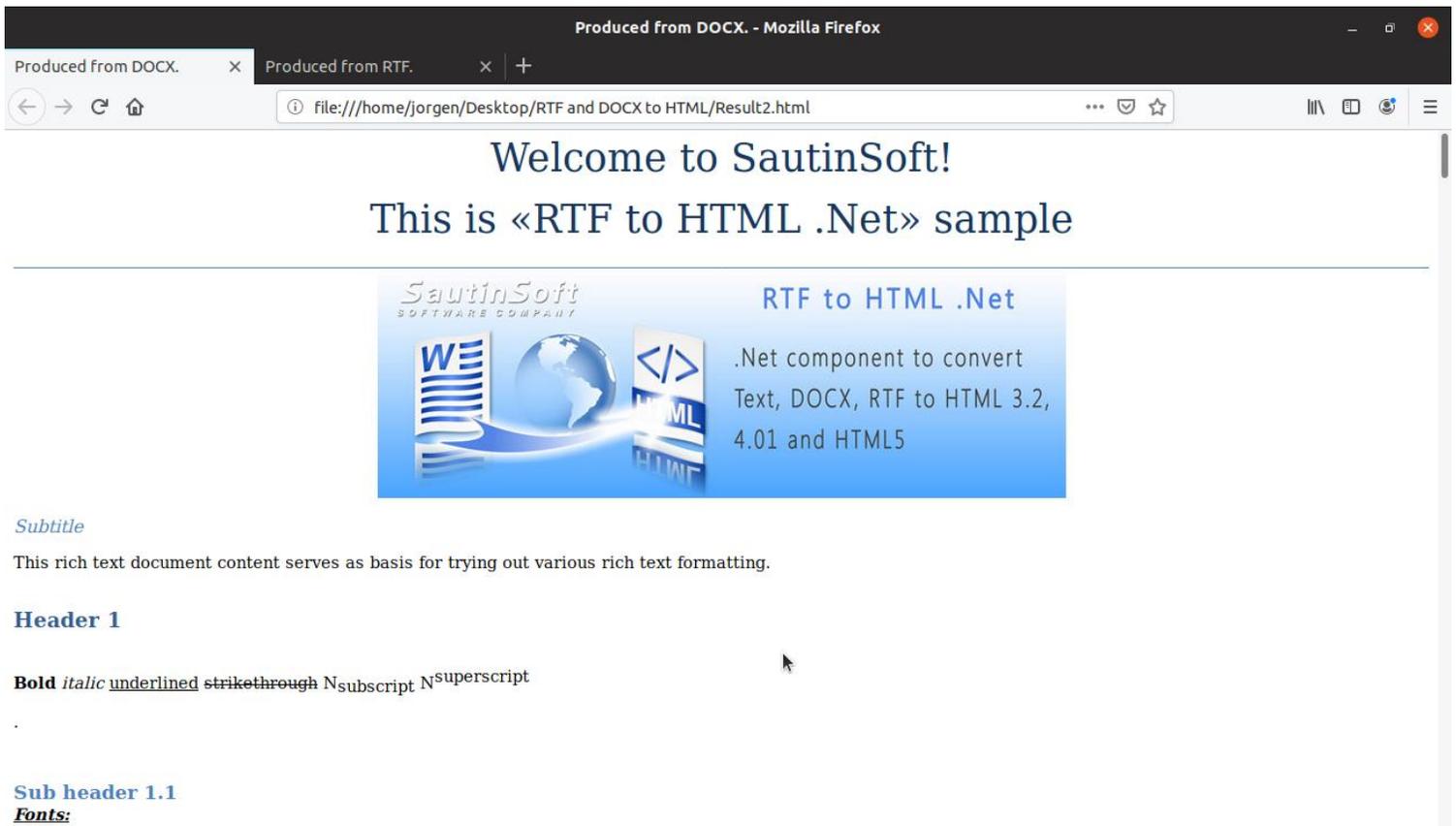
                // Open the results for demonstration purposes.
                System.Diagnostics.Process.Start(new System.Diagnostics.ProcessStartInfo(outFile1)
                { UseShellExecute = true });
            }
        }
    }
}
```


Launch our application and convert the "example.rtf" and "example.docx" into HTML documents, type the command: **dotnet run**

```
OUTPUT  DEBUG CONSOLE  TERMINAL  1: bash
jorgen@jorgen-linux:~/Desktop/RTF and DOCX to HTML$ dotnet run
```

If you see the opening browser with the output HTML documents, everything is fine and we can check the results produced by the [RTF to HTML .Net](#) library.

The new files "sample.rtf" and "sample.docx" have to appear on the Desktop:



Well done! You have created the "RTF/DOCX to HTML" application under Linux!

If you have any troubles or need extra code, or help, don't hesitate to ask our SautinSoft Team at support@sautinsoft.com.