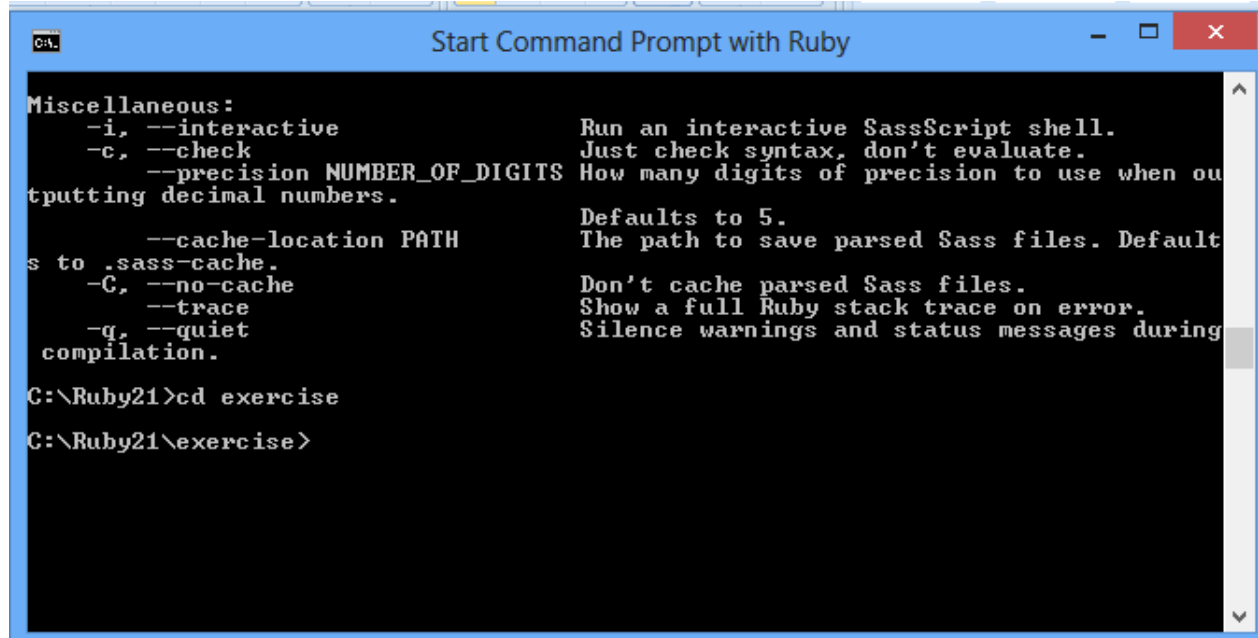


1. To install sass in system we need to install ruby first. So download ruby from <http://rubyinstaller.org/downloads/> site and install.
2. Second Download gem file to install sass for that go to <https://rubygems.org/gems/sass/versions/3.4.8> and download latest version.
3. After downloading gem file place gem file inside ruby installation folder (e.g. c:/Ruby21/sass-3.4.8.gem)
4. Open command prompt and run **gem install sass** command.
5. Now type **sass -?** In command line it shows help content with description what sass is? Whole bunch option are here using sass.
6. Now let's move to convert scss code into css code and there is two way to do this 1.) --update command 2.) --watch command.
7. Update command takes an SCSS file , and converts it into css.
8. So let's go into the directory where we have our examples, and open Exercise file folder (I placed exercise folder in C:\Ruby21\exercise).
9. Go to exercise folder through command line.



```
Start Command Prompt with Ruby

Miscellaneous:
-i, --interactive      Run an interactive SassScript shell.
-c, --check           Just check syntax, don't evaluate.
--precision NUMBER_OF_DIGITS How many digits of precision to use when ou
tputting decimal numbers.
                        Defaults to 5.
--cache-location PATH The path to save parsed Sass files. Default
s to .sass-cache.
-C, --no-cache        Don't cache parsed Sass files.
--trace              Show a full Ruby stack trace on error.
-q, --quiet           Silence warnings and status messages during
compilation.

C:\Ruby21>cd exercise
C:\Ruby21\exercise>
```

- a. Run **dir** command to show all files inside exercise folder.

- b. Here you can see that scss and some other files are there.
10. Let's try to convert scss file into css.
11. First open styles.scss file and add this lines. And save it.

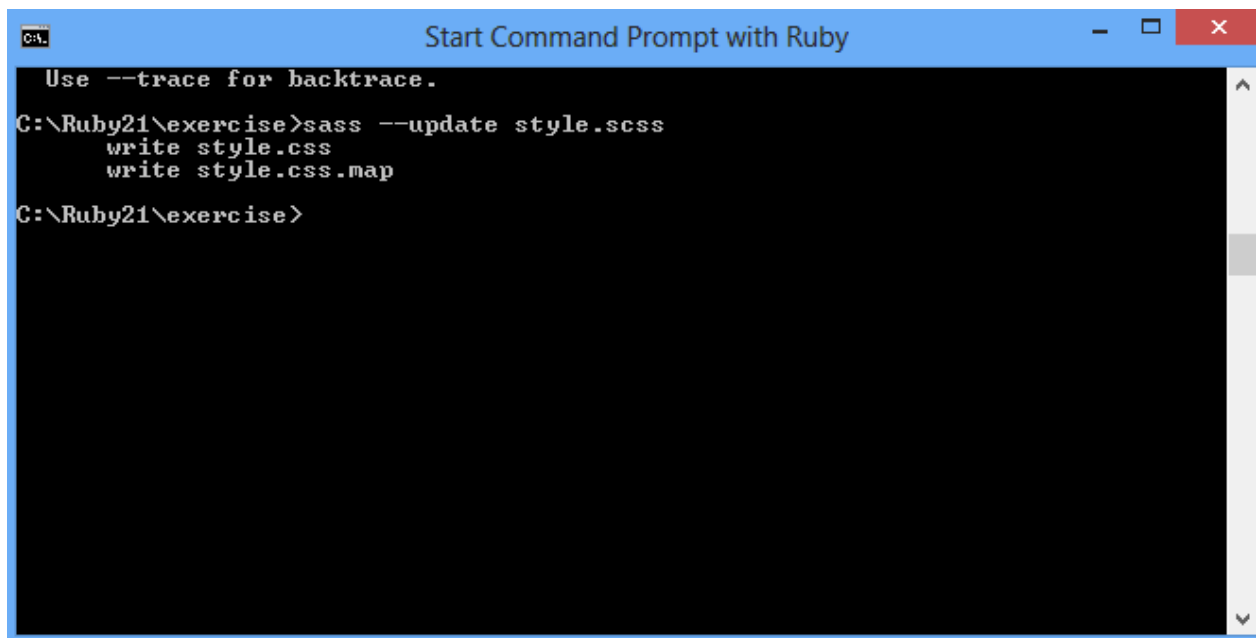
```
$heading_color1:blue;

h1,h2{

    color:$heading_color1;

}
```

12. And type **sass --update styles.scss** into your command prompt.



```
C:\Ruby21\exercise>sass --update style.scss
    write style.css
    write style.css.map
C:\Ruby21\exercise>
```

13. Now you can see that it shows result write styles.css it means out file converted into .css file.
14. Open styles.css and see the css.

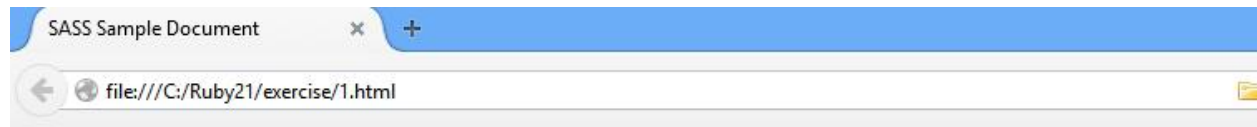
```
1 h1, h2 {
2   color: red; }
3
4 body {
5   font-family: Helvetica, Arial, sans-serif; }
6
7 body p {
8   font-family: Times; }
9
10 body p#mypara {
11   font-family: "Courier New"; }
12
13 #mypara {
14   color: #404040;
15   border: 1px solid #404040;
16   padding: 10px; }
17
18 #mypara:hover {
19   color: red; }
```

```
19 /*# sourceMappingURL=style.css.map */
```

15. Then edit 1.html file and add this css file and

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <title>SASS Sample Document</title>
5     <link rel="stylesheet" href="mixin_styles.css" type="text/css">
6     <link rel="stylesheet" href="style.css" type="text/css">
7   </head>
8
9   <body>
10     <div id="pagecontent">
11       <header>
12         <h1>SASS Sample Document</h1>
13         <h2>Heading 2</h2>
14         <h3>Heading 3</h3>
15         <h4>Heading 4</h4>
16       </header>
17     </div>
18   </body>
19 </html>
```

open 1.html file in browser. And see css effect.



SASS Sample Document

Heading 2

Heading 3

Heading 4

Sample paragraph of text

Another paragraph of text

- List Item 1
- List Item 2
- List Item 3
- List Item 4
- List Item 5
- List Item 6

This is some footer content

Here we applied red color to h1 and h2 tag in scss file .

```

</head>

<body>
  <div id="pagecontent">
    <header>
      <h1>SASS Sample Document</h1>
      <h2>Heading 2</h2>
      <h3>Heading 3</h3>
      <h4>Heading 4</h4>
    </header>
  <div>
    <p id="mypara">Sample paragraph of text</p>
    <p>Another paragraph of text</p>
  </div>

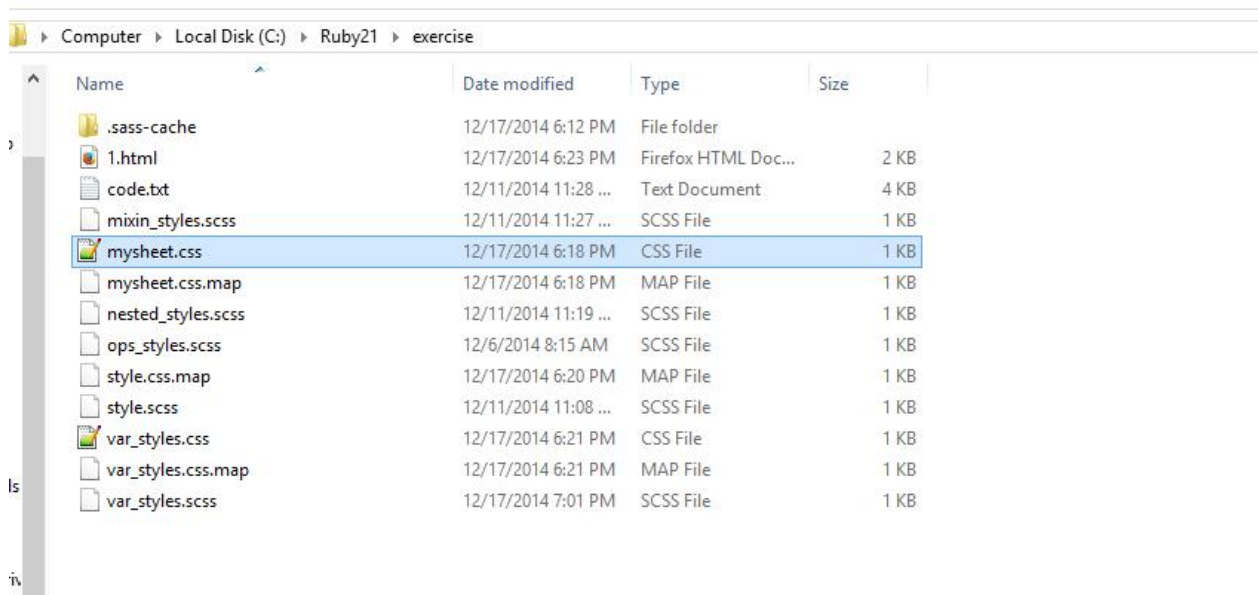
```

We can pass an additional parameter to the command.

Sass -update styles.scss:mysheet.css

So we can create a new CSS file using styles.scss:mysheet.css file.

Now check your folder; a new file is created with the name mysheet.css.



You can also use watch command that continuously watching your change and compilation of scss file. When you do any change scss file you don't need to run update command again and again.