# **Environment Setup**

**Customize Git Environment:**

1. Git provides the git config tool, which allows you to set configuration variables. Git stores all global configurations in .gitconfig file, which is located in your home directory. To set these configuration values as global, add the --global option, and if you omit --global option, then your configurations are specific for the current Git repository.
2. You can also set up system wide configuration. Git stores these values in the /etc/gitconfig file, which contains the configuration for every user and repository on the system. To set these values, you must have the root rights and use the --system option.
3. When the above code is compiled and executed, it produces the following result −
4. Setting username  
   This information is used by Git for each commit.

|  |
| --- |
| [jerry@CentOS project]$ git config --global user.name "Jerry Mouse" |

1. Setting email id  
   This information is used by Git for each commit.

|  |
| --- |
| [jerry@CentOS project]$ git config --global user.email "jerry@tutorialspoint.com" |

1. Avoid merge commits for pulling  
   You pull the latest changes from a remote repository, and if these changes are divergent, then by default Git creates merge commits. We can avoid this via following settings.

|  |
| --- |
| [jerry@CentOS project]$ git config --global branch.autosetuprebase always |

1. Color highlighting  
   The following commands enable color highlighting for Git in the console.

|  |
| --- |
| [jerry@CentOS project]$ git config --global color.ui true  [jerry@CentOS project]$ git config --global color.status auto  [jerry@CentOS project]$ git config --global color.branch auto |

1. Setting default editor  
   By default, Git uses the system default editor, which is taken from the VISUAL or EDITOR environment variable. We can configure a different one by using git config.

|  |
| --- |
| [jerry@CentOS project]$ git config --global core.editor vim |

1. Setting default merge tool  
   Git does not provide a default merge tool for integrating conflicting changes into your working tree. We can set default merge tool by enabling following settings.

|  |
| --- |
| [jerry@CentOS project]$ git config --global merge.tool vimdiff |

1. Listing Git settings  
   To verify your Git settings of the local repository, use git config –list command as given below.

|  |
| --- |
| [jerry@CentOS ~]$ git config --list |

The above command will produce the following result.

|  |
| --- |
| user.name=Jerry Mouse  user.email=jerry@tutorialspoint.com  push.default=nothing  branch.autosetuprebase=always  color.ui=true  color.status=auto  color.branch=auto  core.editor=vim  merge.tool=vimdiff |