# Advanced



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# Properly configure Git

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### **Files**

### 1. /etc/gitconfig

System-wide configuration file.

Pass the option **--system** to git config.

### 2. ~/.gitconfig or ~/.config/git/config

User-specific configuration file.

Pass the option --global to git config.

### 3. .git/config (default)

Repository specific configuration file.

Pass the option --local to git config.

## Your Identity

### **Global Identity**

```
$ git config --global user.name "John Doe"
$ git config --global user.email johndoe@gmail.com
```

### Identity for customer specific repository

```
$ git config --local user.email johndoe@customer.com
```

## Git Credential Manager

Git Credential Managers simplify authentication with your Git repos. They also provide support two-factor authentication.

#### **Windows**

Download and run the latest Git for Windows installer, which includes the Git Credential Manager for Windows. <a href="https://git-scm.com/download/win">https://git-scm.com/download/win</a>

#### macOS and Linux

> git-credential-manager install

### **Editors**

#### **Text Editor**

```
$ git config --global core.editor %
"'C:/Program Files (x86)/Notepad++/notepad++.exe' %
-multiInst -notabbar -nosession"
```

### **Merge and Diff Tool**

```
$ git config --global --add merge.tool kdiff3
$ git config --global --add mergetool.kdiff3.path "C:/../kdiff3.exe"
$ git config --global --add mergetool.kdiff3.trustExitCode false

$ git config --global --add diff.guitool kdiff3
$ git config --global --add difftool.kdiff3.path "C:/../kdiff3.exe"
$ git config --global --add difftool.kdiff3.trustExitCode false
```

## **Checking Your Settings**

If you want to check your configuration settings, you can use the git config --list command to list all the settings Git can find at that point.

```
$ git config --list
user.name=John Doe
user.email=johndoe@example.com
..
```

You may see keys more than once, because Git reads the same key from different files (~/.gitconfig and .git/config, for example). In this case, Git uses the last value for each unique key it sees.

## **Checking Your Settings**

You can also check what Git thinks a specific key's value is by typing git config <key>

\$ git config user.name
John Doe

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## **Further Reading**

#### Git Reference Manual

https://git-scm.com/docs

The official and comprehensive man pages that are included in the Git package itself

#### **GitHub Cheat Sheet**

https://services.github.com/on-demand/downloads/github-git-cheat-sheet.pdf

Summarizes commonly used Git command line instructions for quick reference

#### **Visual Git Cheat Sheet**

http://ndpsoftware.com/git-cheatsheet.html

An interactive cheat sheet from NDP Software

#### **Pro Git book**

https://git-scm.com/book

Free book by Scott Chacon and Ben Straub. Also available on amazon.com