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About Git

1 message

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What is GIT?

- Keeps track of changes
 - especially text changes
 - version 1, version 2, version 3
- Version control system (VCS)
- Source code management (SCM)



Version control systems (non-source code)

examples of version control (non-source code)

- File naming (Budget_v4.xls, Logo_v2.gif)
- Microsoft Word's Track Changes
- Adobe Photoshop's History
- Wikis
- Undo: control+z (Windows), command+z (Mac)



GIT is a distributed version control system

distributed version control

- No single master repository; just many working copies
 - Each with their own combination of change sets
- Imagine changes to a document as sets A, B, C, D, E, F
 - Repo 1: A, B, C, D, E, F
 - Repo 2: A, B, C, D
 - Repo 3: A, B, C, E
 - Repo 4: A, B, E, F



distributed version control

- no need to communicate with a central server
 - faster
 - no network access required
 - no single failure point
- encourages participation and “forking” of projects
 - developers can work independently
 - submit change sets for inclusion or rejection



Different people can work on their own repositories without having to merge their changes to the master repository (like CVS, SVN).

We can work without internet

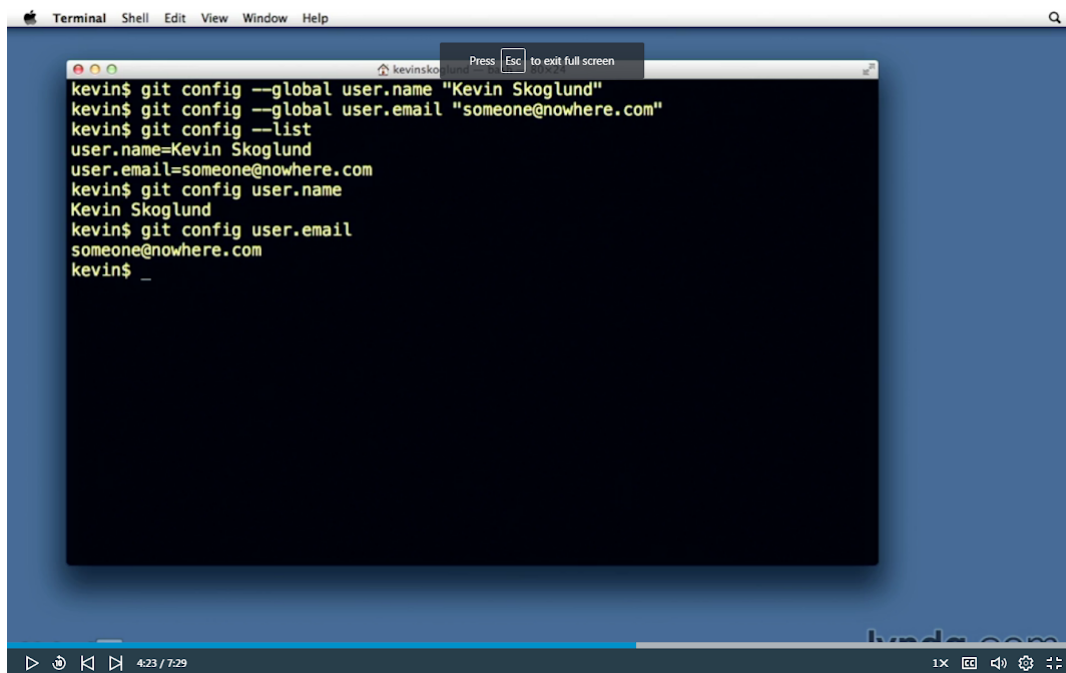
Configuring Git after downloading:

Location for the git config file

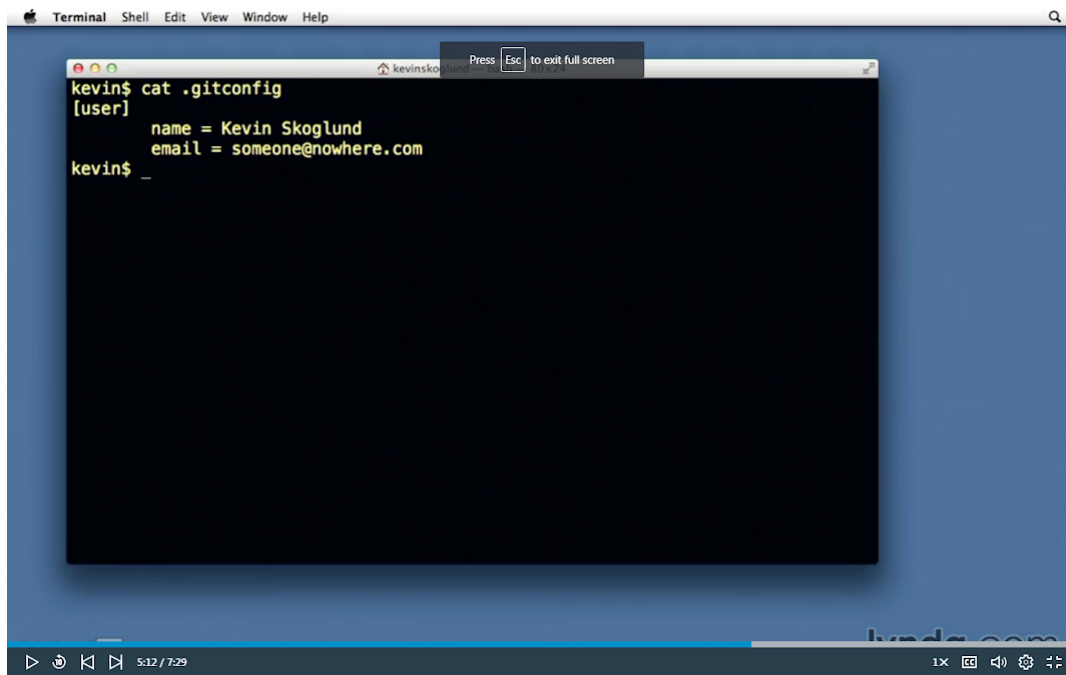
- System
 - /etc/gitconfig
 - Program Files\Git\etc\gitconfig
- User
 - ~/.gitconfig
 - \$HOME\.gitconfig
- Project
 - my_project/.git/config



Configuring the git config file



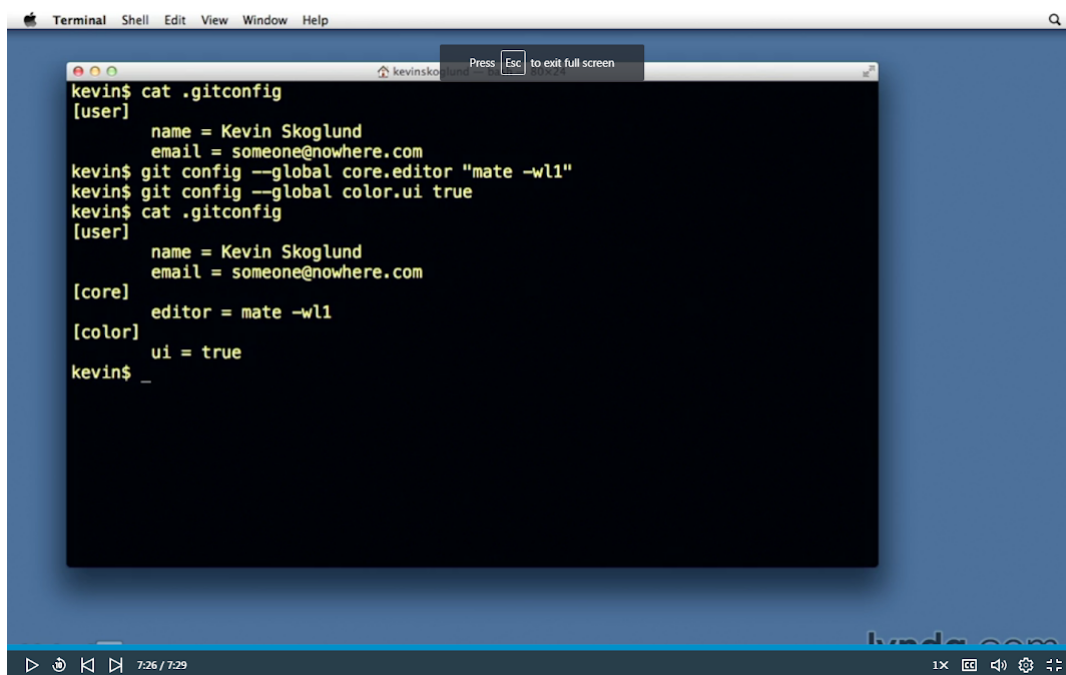
After this go to .gitconfig and do cat .gitconfig
that will show the configurations made to it

A screenshot of a macOS Terminal window. The window title is "Terminal" with menu items "Shell", "Edit", "View", "Window", and "Help". The terminal shows the command `cat .gitconfig` being executed. The output is:

```
[user]
  name = Kevin Skoglund
  email = someone@nowhere.com
```

The prompt `kevin$` is visible at the bottom. A tooltip above the terminal says "Press Esc to exit full screen". The video player interface at the bottom shows a progress bar at 5:12 / 7:29.

Setting the editor with which u want to open the files and text colors

A screenshot of a macOS Terminal window. The window title is "Terminal" with menu items "Shell", "Edit", "View", "Window", and "Help". The terminal shows the following commands and output:

```
kevin$ cat .gitconfig
[user]
  name = Kevin Skoglund
  email = someone@nowhere.com
kevin$ git config --global core.editor "mate -wl1"
kevin$ git config --global color.ui true
kevin$ cat .gitconfig
[user]
  name = Kevin Skoglund
  email = someone@nowhere.com

[core]
  editor = mate -wl1
[color]
  ui = true
kevin$
```

A tooltip above the terminal says "Press Esc to exit full screen". The video player interface at the bottom shows a progress bar at 7:26 / 7:29.