

# Help Topic: Finding the Command Line Using the Terminal Application

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## Finding the Command Line Using the Terminal Application

This topic describes how to get started using the Mac Terminal Application. Terminal provides a command-line interface to your system which we will use extensively. All Macs come with Terminal pre-installed, but it is not one of the applications in your Dock by default. This topic describes how to add it to your dock and configure a few basic properties of Terminal.

### A Quick Note about the Finder Application on MacOS

As perhaps a new Mac user, you may have noticed a distinct feature on the Mac, going back to its very earliest days, is that the top-most menu on your screen changes, depending on what application you are using. Two things remain constant though:

- The left-most item on the top menu bar is *always* the Apple icon which has a consistent set of pull-down menu options regardless of what application you are using.
- The next left-most item is the name of the current application. If you are using the Terminal app, it will say Terminal. If you are using Emacs, it will say Emacs, and so on.

The Finder application is a core application on your Mac. Unlike most other applications, it is always running. If you click anywhere on the desktop, outside any other application window, you will essentially be selecting the Finder application and you will notice the corresponding change on the menu bar. (try it!)

The Finder application is essentially an alternate universe compared to the command line environment. It provides a GUI based experience for navigating your computer. It is wonderfully intuitive, but the command line is infinitely more powerful. Nevertheless for some things we will reference the Finder application.

### Getting Terminal to your Dock

Open the `Applications` folder in Finder. You can do this with a shortcut by hitting Command-Shift-A anywhere on your desktop (outside an open application). The long way is to select the `Go` pull-down menu in Finder and select `Applications`.

- In the `Applications` folder, scroll down to near the end, and look for a `Utilities` folder. Open it and scroll down and look for the `Terminal` application.

- Drag and drop the `Terminal` icon to your dock.
- Now you may launch `Terminal` from the dock whenever you want a command-line interface.

## Hints on Opening New Terminal Windows

Clicking on the `Terminal` icon in the dock will not open multiple windows. This may seem a bit counter-intuitive to users new to MacOS. Below are some ways to open a new window:

- When `Terminal` is the active application (it says `Terminal` next to the Apple icon in the upper left of your window), you can open a new window by pulling-down the `Shell` pull-down menu, and select `New Window`.
- When `Terminal` is the active application, type the short-cut `Command-n`, to open a new window.
- When `Terminal` is the active application, type the short-cut `Command-t`, to open a new terminal as a `Tab` in an existing window (I use this a lot!).
- Control-click (or right-click, for two-button mouse users) the `Terminal` icon in the Dock. Select `New Window`.

## Hints on the Configuring Terminal Application

User preferences for `Terminal` may be set by selecting `Settings` from the `Terminal` pull-down menu. We point your attention to a couple things you may want to set:

- The `Terminal` preferences window has several tabs at the top. Select the `Profiles` tab. In the upper right there is a bar of buttons: `Text`, `Window`, `Tab`, `Shell`, and so on.

Select the `Shell` button.

In the `Startup` section, check the box that says `Run command`, and enter the command `bash`, as shown in Figure 1 below.

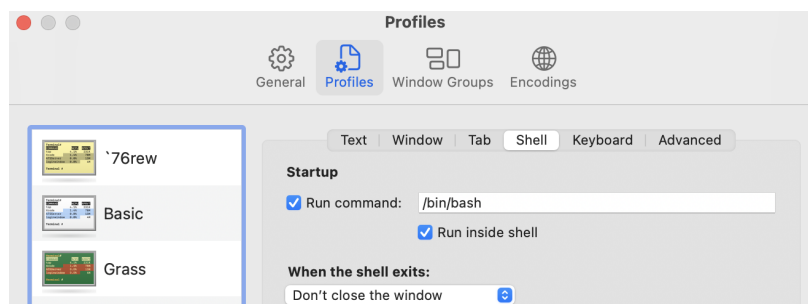


Figure 1: Setting the Shell to bash for the Terminal application.

- Under the Profiles tab, and the Window sub-tab, you can alter the default size of your window when it opens. Default is 80 columns and 24 rows. To change it, enter what you like in Columns and Rows fields as shown below.

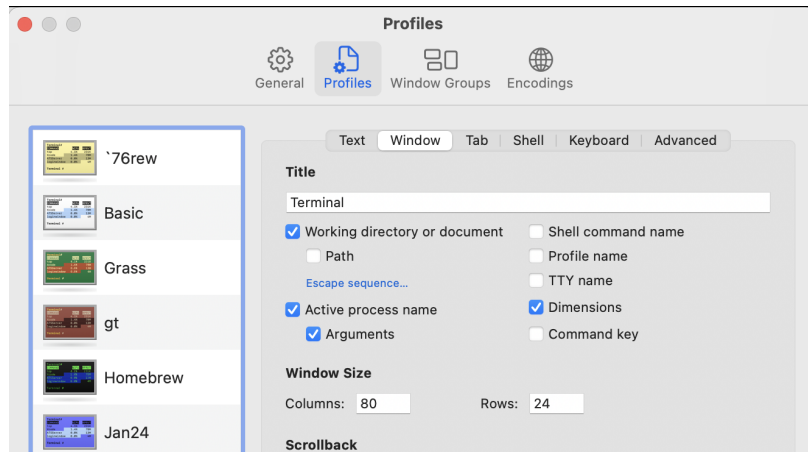


Figure 2: Setting the Terminal size in terms of columns and rows.

- Choose a background color that suits you. Very likely this will be the window/color your eyes will encounter the most in this and future labs. I recommend tinkering to get it best suited for you.

### Random Historical Mac Notes:

- The Mac operating system is sometimes called "MacOS", and sometimes called "OSX". Apple used the latter for many years up until a few years ago before switching to the former. They mean the same thing.
- On a Mac laptop, there is only the track pad. The "mouse-click" is done by clicking the track pad. The Mac laptop "mouse-click" can be configured to be a *tap* on the track pad instead of a full push-down click. See the track pad section under the System Settings menu. There is no physical right-click, but there is indeed a whole bunch of stuff that can be accessed with a right-click. To achieve a right-click, hold down the control button and perform a normal left-click. Try right-clicking on the Desktop background and see what happens. If you buy a mouse from Apple it only has one button. But you can certainly buy a two-button mouse from another vendor and both buttons will be respected.