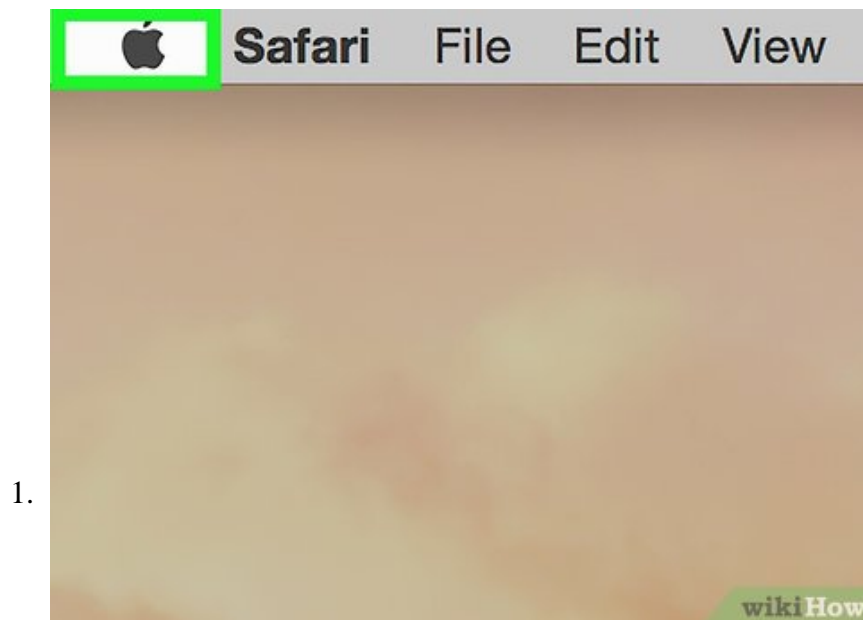


How to Force Quit an Application on a Mac

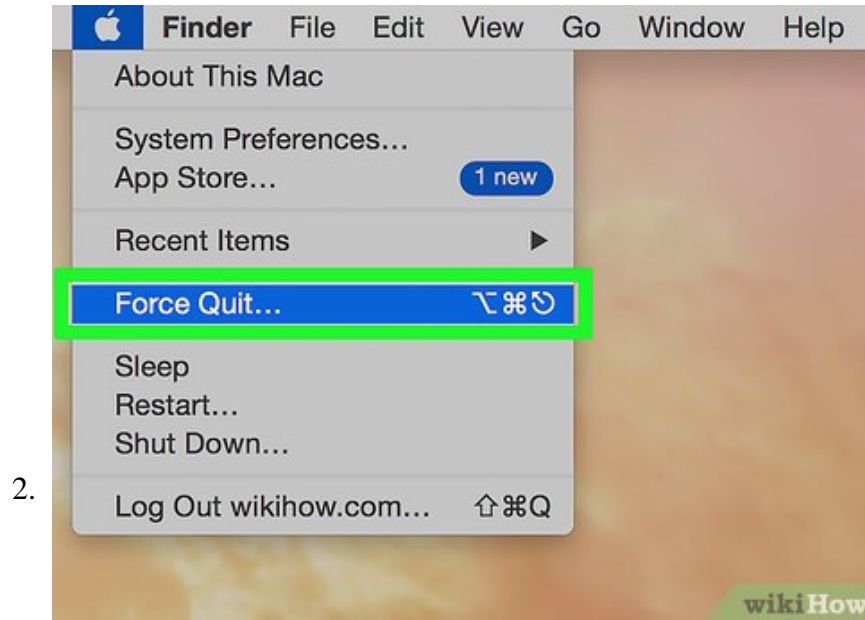
This wikiHow teaches you how to quit an application that has stopped responding on your Mac. Open the Apple menu. It's the black Apple on icon in the upper-left corner of the screen.

Method 1 of 5:

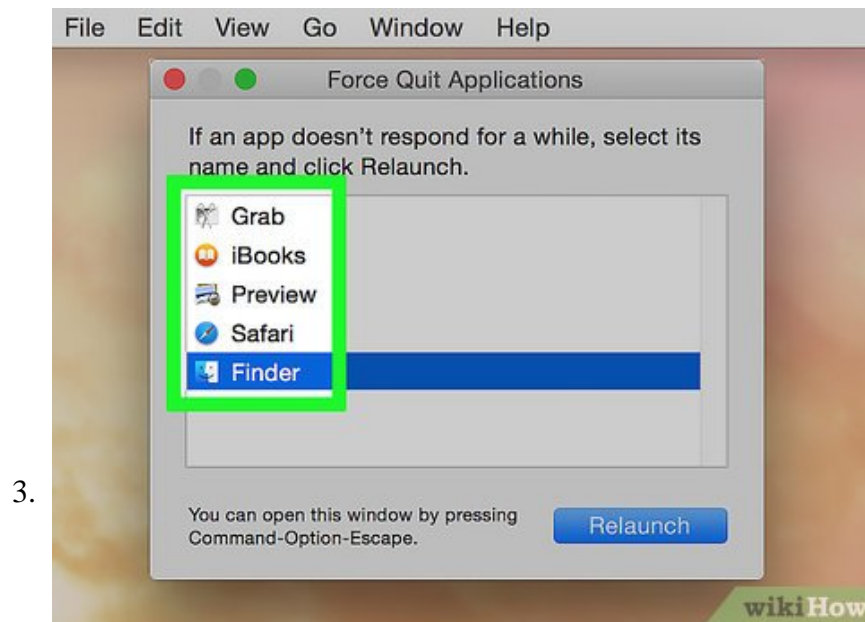
Using the Apple Menu



Open the Apple menu. It's the black Apple on icon in the upper-left corner of the screen.

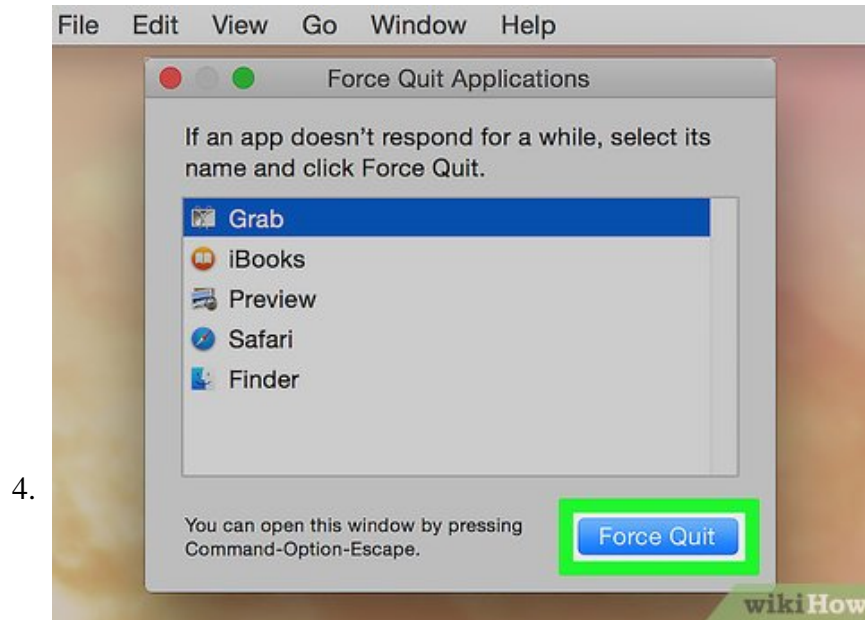


Click on **Force Quit...** toward the middle of the menu.



Click on the app you want to quit.

1. The note "(Not Responding)" will appear next to frozen apps.



Click on **Force Quit**. The app will quit and can be restarted.

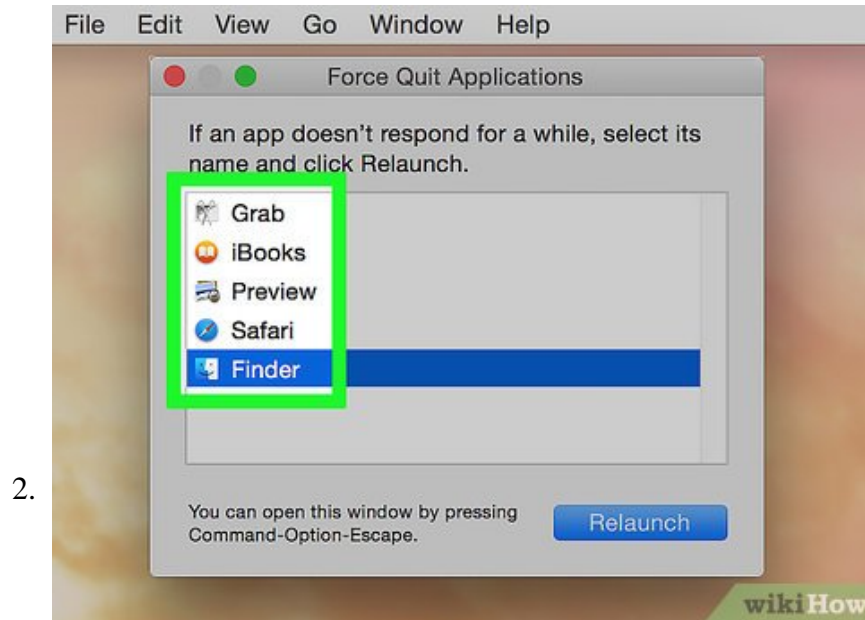
1. If your computer is frozen, you may need to restart it.

Method 2 of 5:

Using a Keyboard Shortcut

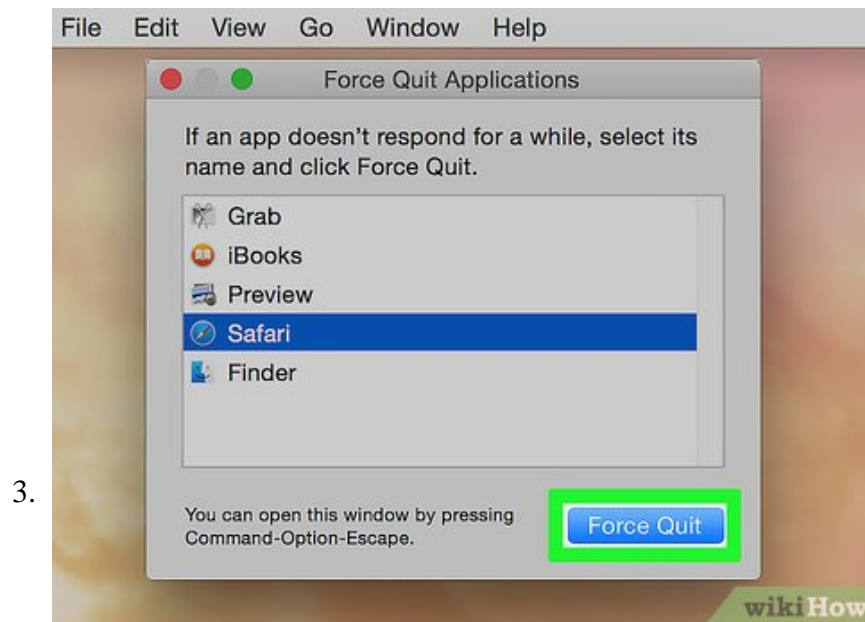


Press **⌘+⌥+Esc**. The "Force Quit" dialog box will open.



Click on the app you want to quit.

1. The note "(Not Responding)" will appear in red next to frozen apps.



Click on **Force Quit**. The app will quit and can be restarted.

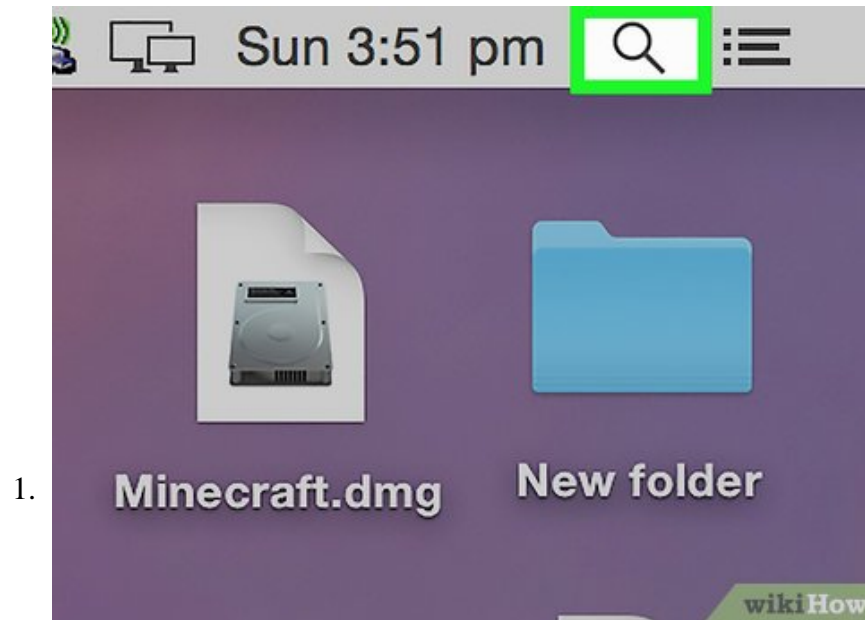
Method 3 of 5:

Using the Dock

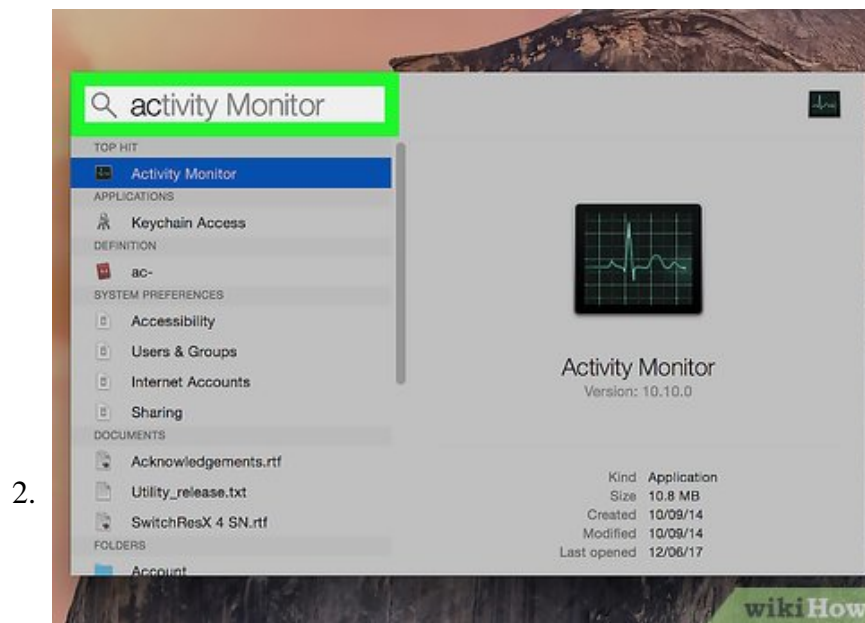
1. Press **⌘ Option** on your keyboard.
2. **Right-click** or **control-click** the application in the Dock.
3. Click **Force Quit**.

Method 4 of 5:

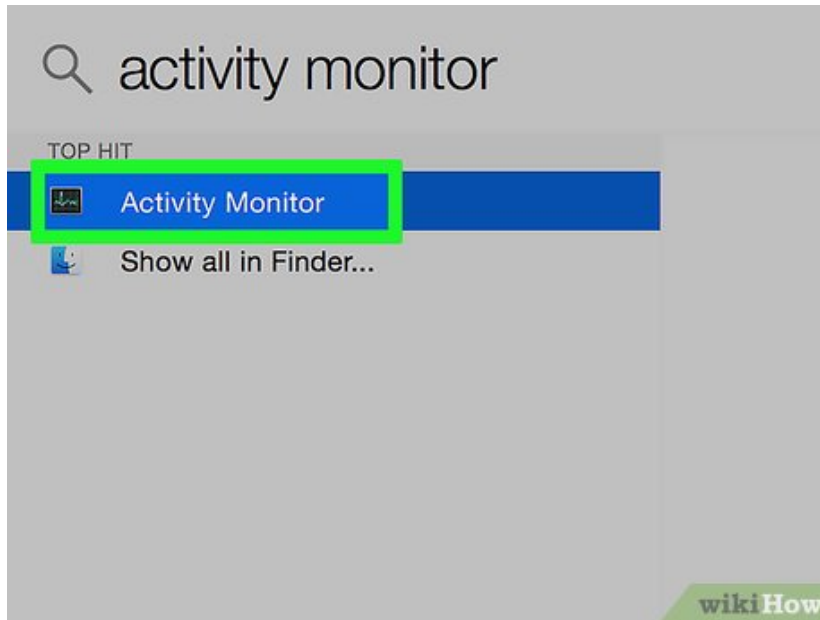
Using Activity Monitor



Click on Spotlight. It's the magnifying glass in the upper-right corner of the screen.

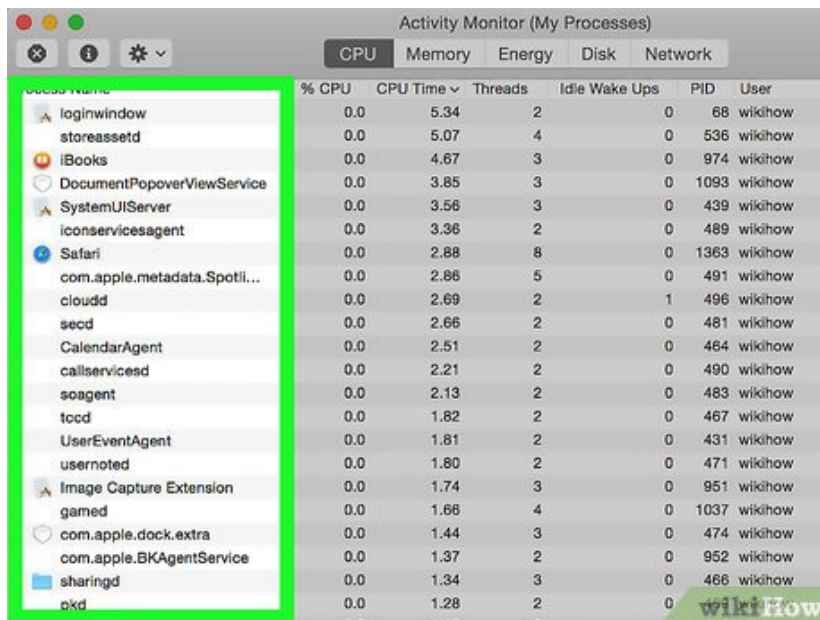


Type "Activity Monitor" in the search field.



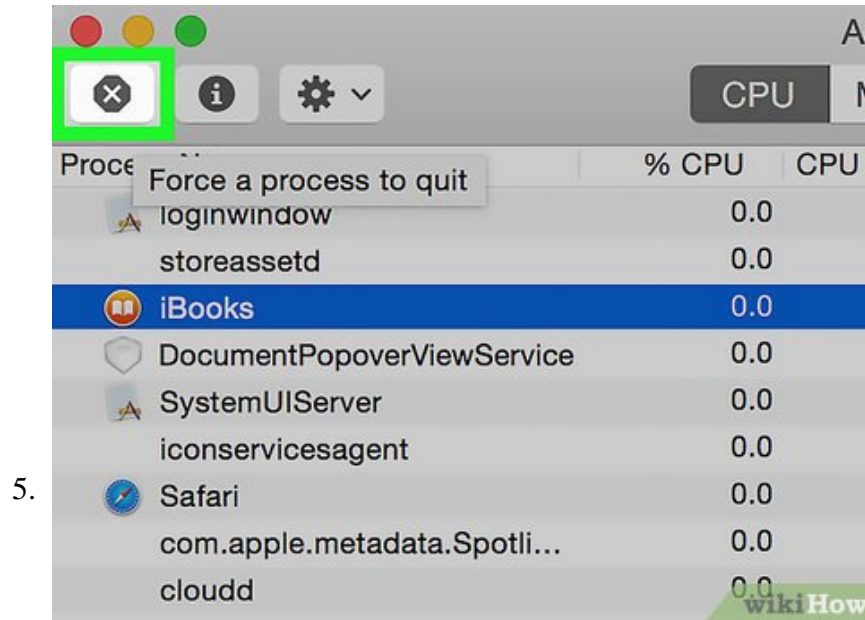
3.

Click on **Activity Monitor** under "Applications."



4.

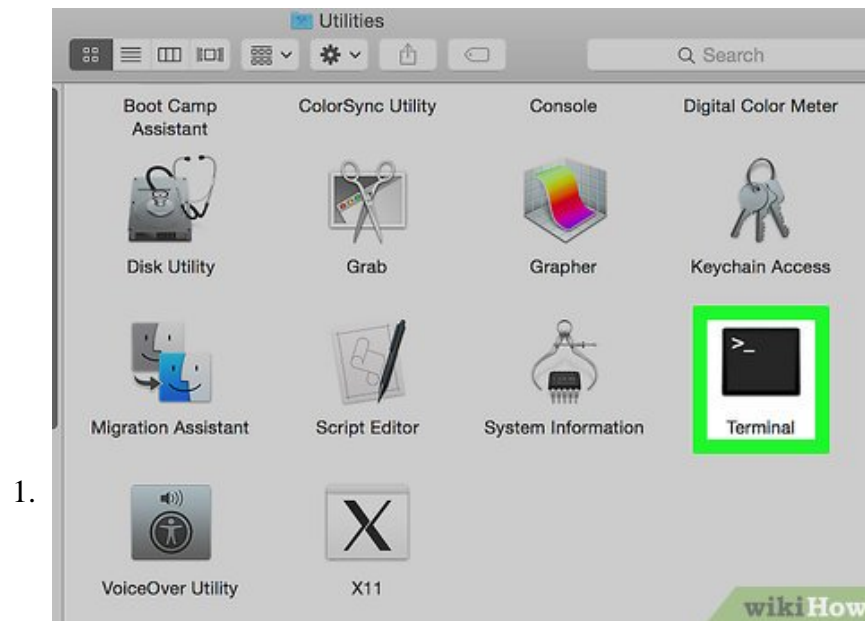
Click on the application you want to quit.



Click on "Quit Process" in the upper-left corner of the window. This will stop the application from running.

Method 5 of 5:

Using Terminal



Open the Terminal utility. By default, this is in the Utilities folder, located in the Applications folder.

1. If a normal Force Quit doesn't work, you may need to use this method to end the program.

```
wikihow — bash — 80x24
Last login: Fri Jul 7 20:22:00 on ttys000
wikihowcoms-Mac:~ wikihow$ top
```

2.

Type "top" and press **Return**. The 'top' command displays information about the applications that are currently running.

```
wikihow — top — 80x24
Processes: 188 total, 2 running, 5 stuck, 181 sleeping, 638 threads
Load Avg: 1.42, 1.47, 1.43 CPU usage: 1.39% user, 2.79% sys, 95.81%
SharedLibs: 9320K resident, 10M data, 0B linkedit.
MemRegions: 20780 total, 486M resident, 39M private, 189M shared.
PhysMem: 1853M used (296M wired), 194M unused.
VM: 450G vsize, 1062M framework vsize, 64(0) swapins, 6565(0) swapout
Networks: packets: 801105/928M in, 695801/38M out.
Disks: 220357/6633M read, 537937/8937M written.

PID  COMMAND  %CPU  TIME    #TH  #WQ  #PORT  MEM    PURG  CMPRS
1422  top       0.3    00:00.77  1/1  0    19    1608K  0B    0B
1418  bash     0.0    00:00.02  1    0    15    540K   0B    0B
1417  login    0.0    00:00.14  2    0    27    888K   0B    0B
1415  Terminal 0.6    00:01.59  7    1    182   14M   20K   0B
1412  helpd    0.0    00:00.03  2    0    34    948K   0B    0B
1409  CVMCompiler 0.0  00:00.47  2    1    28    13M   0B    0B
1406  Activity Mon 0.0  00:12.54  6    3    198   25M  3180K  0B
1373  QuickLookSat 0.0  00:00.15  2    0    40    968K   0B   964K
1372  quicklookd 0.0  00:00.20  4    0    75   1428K  0B   1104K
1370  webinspector 0.0  00:00.17  2    0    42    556K   0B   1072K
1368  com.apple.We 0.0  00:00.10  4    1    78    424K   0B   1676K
1366  com.apple.We 0.0  00:00.24  6    0    156   1204K  0B   8908K
1365  CoreServices 0.0  00:00.14  3    0    127   1524K  0B   2896K
1363  Safari    0.0    00:02.88  8    0    262   6532K  0B
```

3.

Find the program you want to close. Under the column titled "COMMAND", find the name of the application you wish to quit.

1. The COMMAND list may use a truncated name for the program. Look for a name that looks similar to the program you are trying to close.

4.

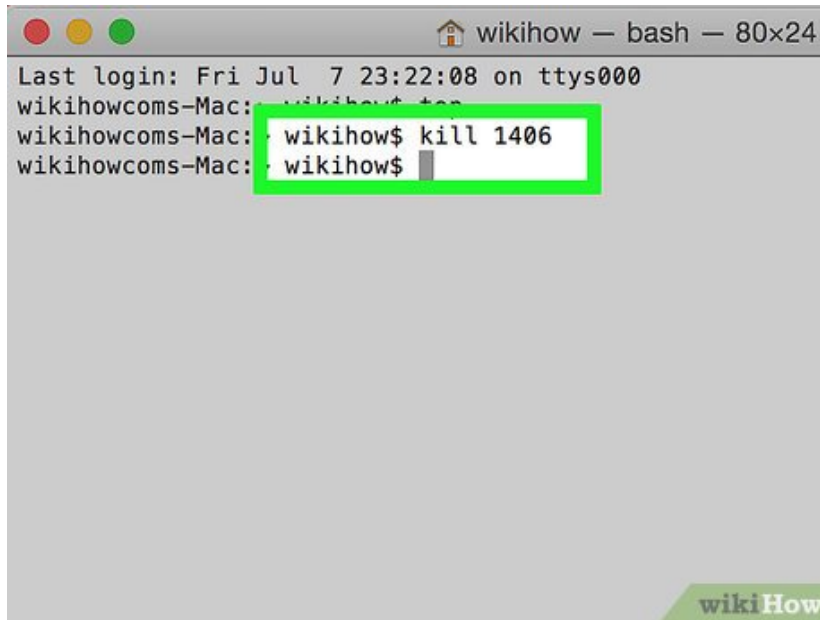
```
wikihow — top — 80x24
Processes: 188 total, 2 running, 4 stuck, 182 sleeping
Load Avg: 1.66, 1.52, 1.45  CPU usage: 0.94% user, 2.3% system, 0.00% nice
SharedLibs: 9344K resident, 10M data, 0B linkedit.
MemRegions: 20780 total, 486M resident, 39M private, 192M unused.
PhysMem: 1854M used (296M wired), 192M unused.
VM: 450G vsize, 1062M framework vsize, 64(0) swapins,
Networks: packets: 801132/928M in, 695805/38M out.
Disks: 220379/6635M read, 537978/8938M written.

PID  COMMAND      %CPU  TIME    #TH  #WQ  #PORT  MEM
1422  top           4.2   00:02.16  1/1  0    19    1608K
1418  bash          0.0   00:00.02  1    0    15    540K
1417  login         0.0   00:00.14  2    0    27    888K
1415  Terminal     0.5   00:02.05  9    3    197   14M
1412  helpd        0.0   00:00.03  2    0    34    948K
1409  VMCompiler   0.0   00:00.47  2    1    28    13M
1406  Activity Mon  0.0   00:12.58  6    3    198   25M
1372  quicklookd   0.0   00:00.15  2    0    40    968K
1372  quicklookd   0.0   00:00.20  4    0    75    1428K
1370  webinspector 0.0   00:00.17  2    0    47    588K
```

Find the PID (Process ID). Once you find the name of program, find the number to the immediate left of it, under the PID column. Make a note of the PID number.



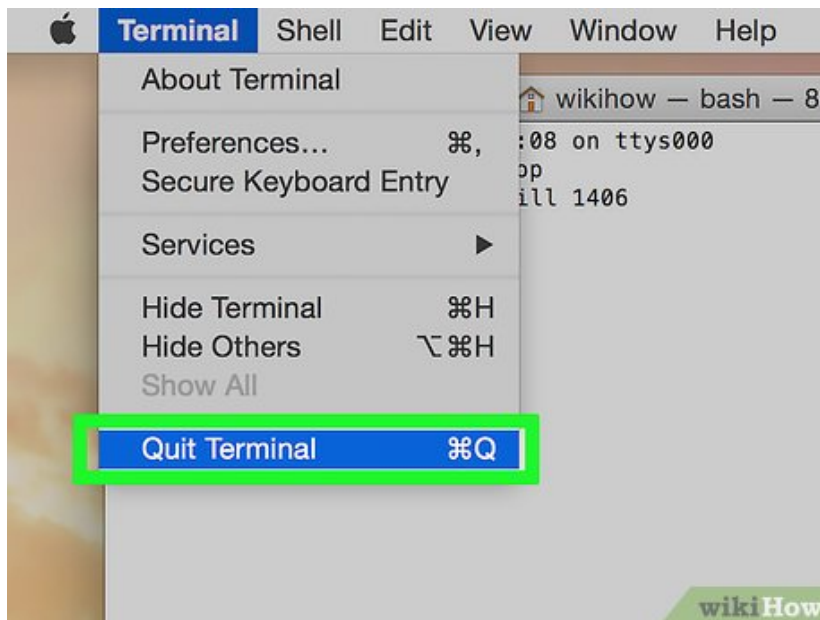
Type "q". This will exit the list of applications and return you to the command line.



6.

Type "kill ###". Replace the "###" with the number from the PID Column you just located. For example: If you were trying to quit iTunes, and found iTunes to have PID number 3703, you would type "kill 3703".

1. If the program does not respond to the 'kill' command, type 'sudo kill -9 ###', replacing ### with the PID number.



7.

Exit the terminal. The application should quit and you can be relaunched.

You finished reading the article "**How to Force Quit an Application on a Mac**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.