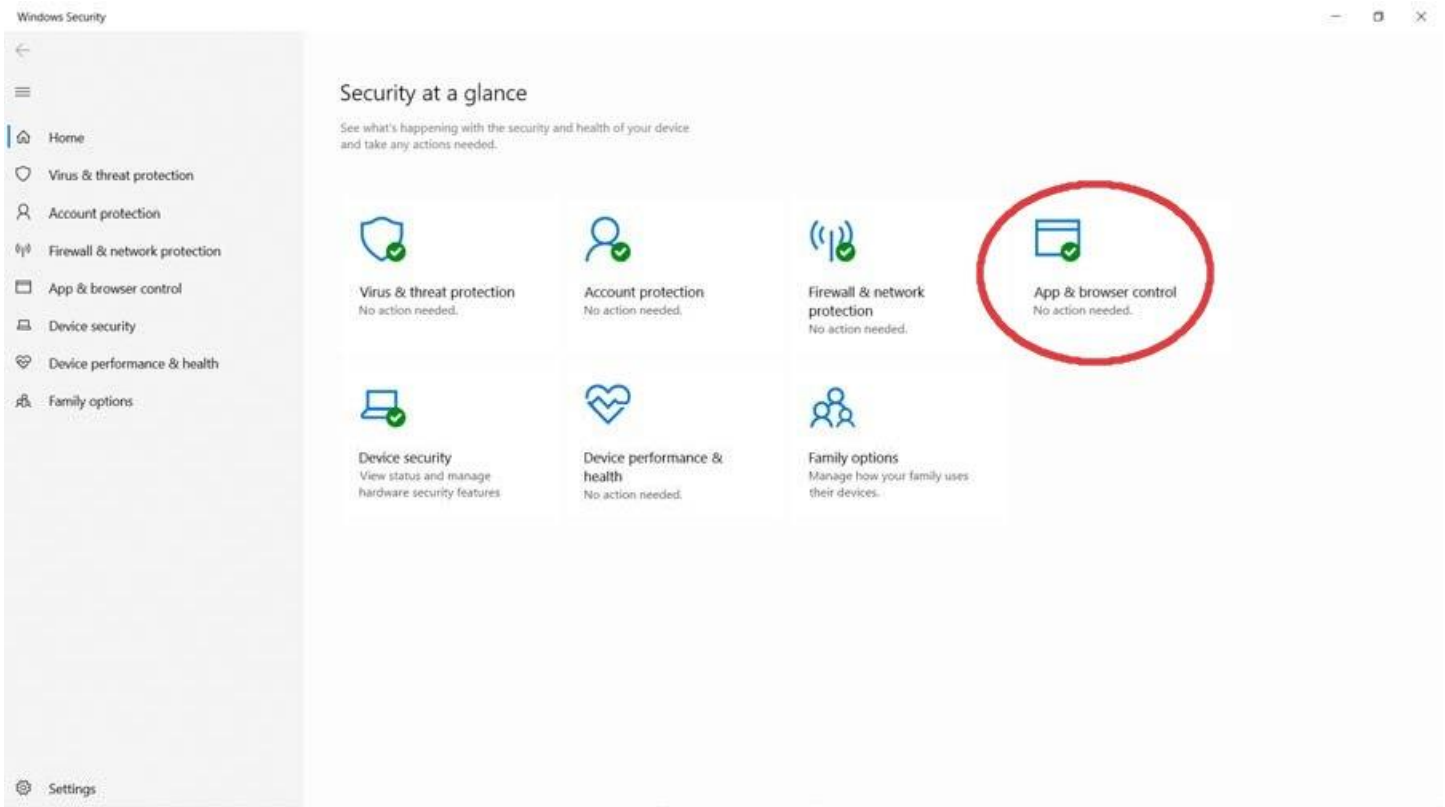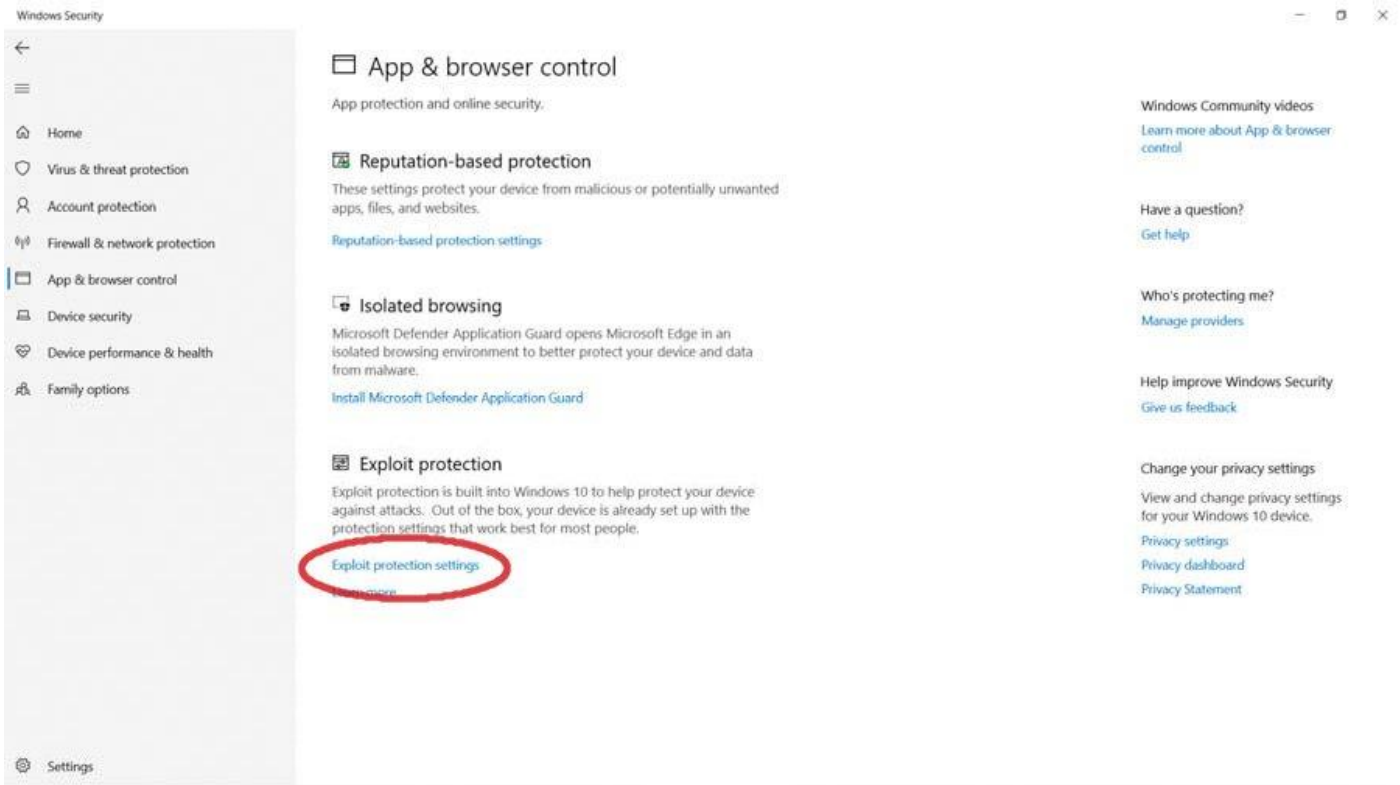# Known Issues

Windows: Windows Defender and many anti-virus programs can dramatically slow down code compilation. A modern PC should take less than 10 seconds to verify simple programs. If Arduino takes 1 minute or longer to verify simple programs, that is a sure sign anti-virus software is slowing you down.
Configuring Windows Defender so that it does not check intermediate Arduino build folders & products (to keep it from slowing down the build).
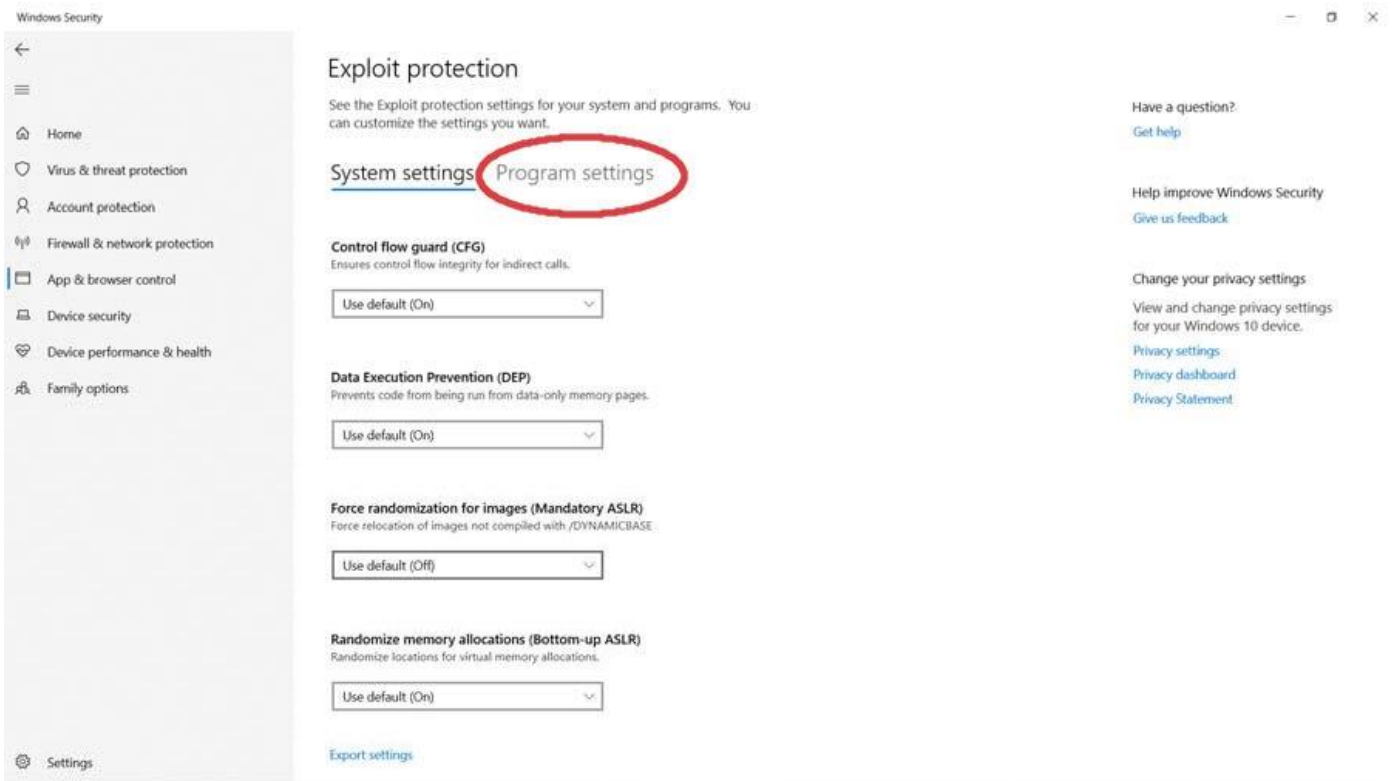
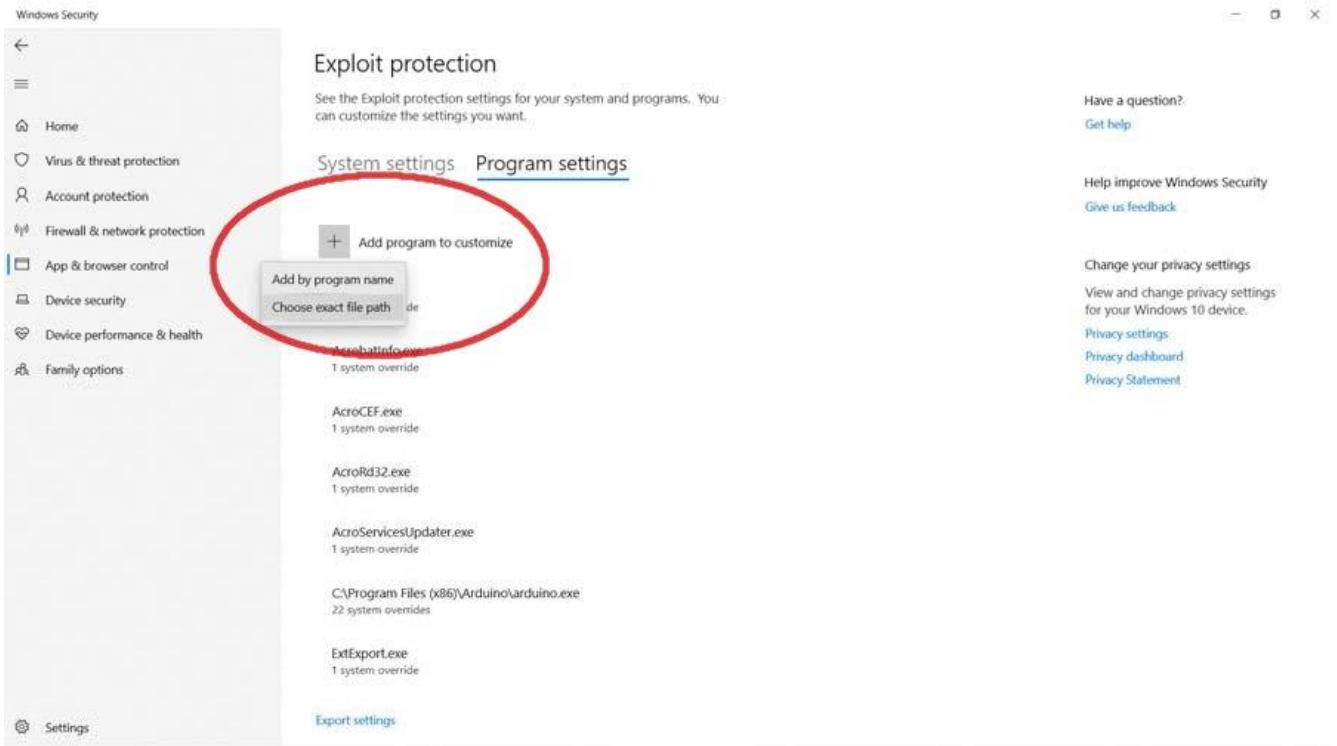1) Open Windows Defender
2) Click on "App & browser control"
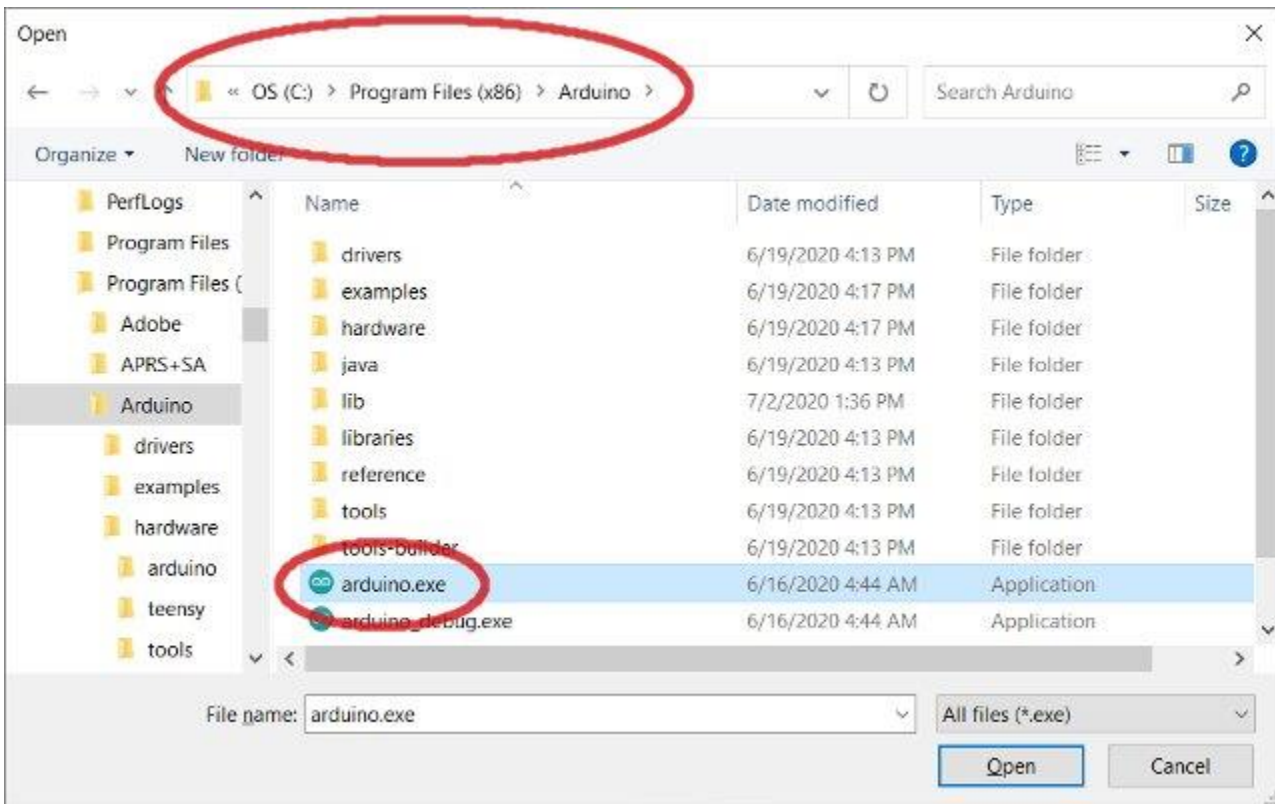

3) Click on "Exploit protection settings"

Windows Security

←

≡

⌂ Home

○ Virus & threat protection

👤 Account protection

📶 Firewall & network protection

🗔 App & browser control

🖥 Device security

♡ Device performance & health

👪 Family options

🗔 **App & browser control**

App protection and online security.

📷 **Reputation-based protection**

These settings protect your device from malicious or potentially unwanted apps, files, and websites.

Reputation-based protection settings

📇 **Isolated browsing**

Microsoft Defender Application Guard opens Microsoft Edge in an isolated browsing environment to better protect your device and data from malware.

Install Microsoft Defender Application Guard

📑 **Exploit protection**

Exploit protection is built into Windows 10 to help protect your device against attacks. Out of the box, your device is already set up with the protection settings that work best for most people.

Exploit protection settings

Learn more

Windows Community videos

Learn more about App & browser control

Have a question?

Get help

Who's protecting me?

Manage providers

Help improve Windows Security

Give us feedback

Change your privacy settings

View and change privacy settings for your Windows 10 device.

Privacy settings
Privacy dashboard
Privacy Statement

⚙ Settings

---

4) Click on "Program settings"

Windows Security

←

≡

⌂ Home

○ Virus & threat protection

👤 Account protection

📶 Firewall & network protection

🗔 App & browser control

🖥 Device security

♡ Device performance & health

👪 Family options

Exploit protection

See the Exploit protection settings for your system and programs. You can customize the settings you want.

System settings Program settings

Control flow guard (CFG)
Ensures control flow integrity for indirect calls.

Use default (On) ⌄

Data Execution Prevention (DEP)
Prevents code from being run from data-only memory pages.

Use default (On) ⌄

Force randomization for images (Mandatory ASLR)
Force relocation of images not compiled with /DYNAMICBASE

Use default (Off) ⌄

Randomize memory allocations (Bottom-up ASLR)
Randomize locations for virtual memory allocations.

Use default (On) ⌄

Export settings

Have a question?

Get help

Help improve Windows Security

Give us feedback

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⚙ Settings

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5) Click on "Add program to customize" & specifically select "Choose exact file path"

6) Navigate to the location where your Arduino IDE is installed (typically "C:\Program Files (x86)\Arduino"), highlight the "arduino.exe" executable & click "Open"


7) Activate the "Override system settings" checkbox for every option & verify that they are all turned off (make sure to scroll down the list to get everything)
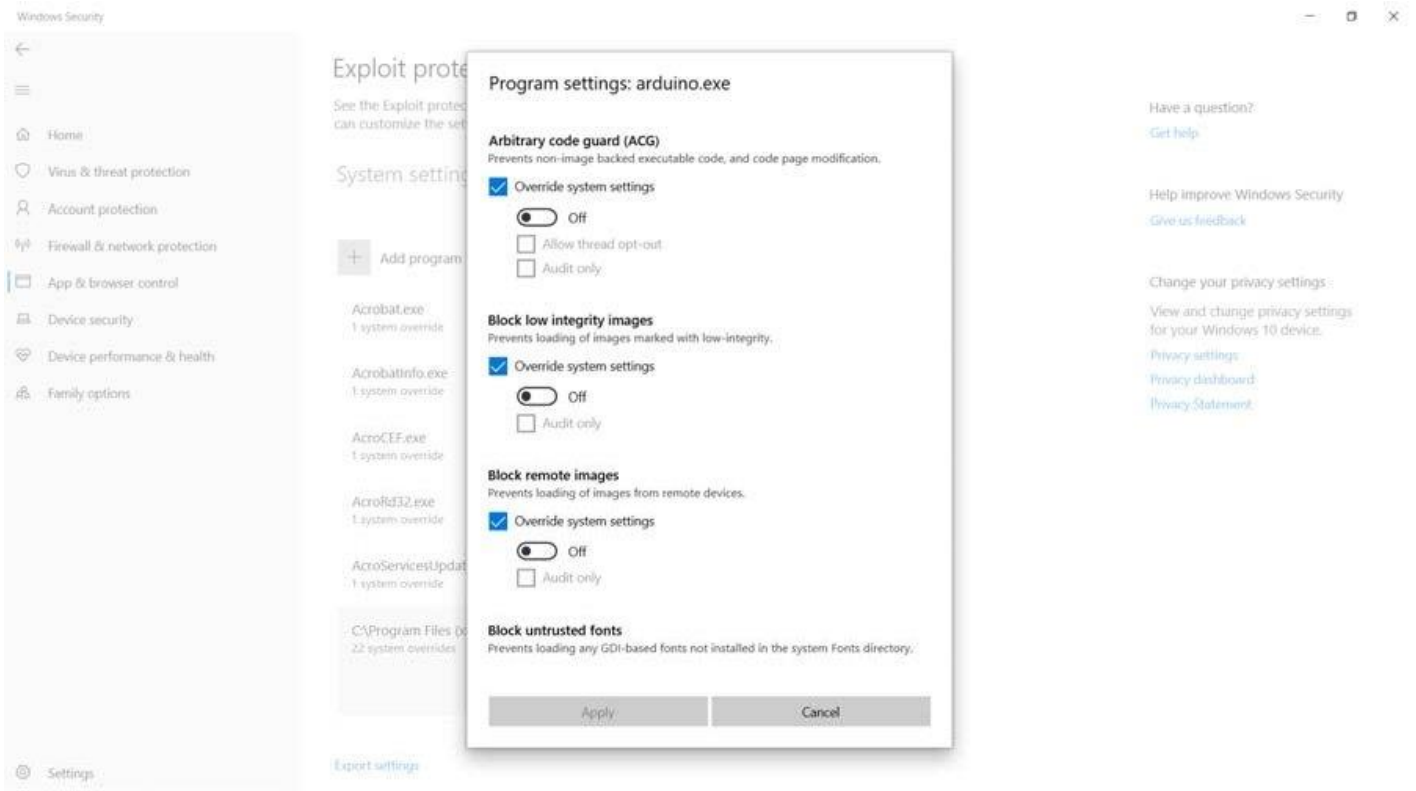
8) Click "Apply" to complete the process.

Special thanks to Mark J Culross (KD5RXT) for contributing these Windows Defender instructions.

Macintosh: Teensyduino requires access to your Documents folder, because Arduino stores installed libraries and boards in Documents/Arduino. If you have disallowed access to Documents, Teensyduino may fail to open. To solve this problem, open System Preferences, click Security & Privacy, and select Files and Folders. Then find Teensyduino on the list of applications which have requested access to your Documents Folder. This box must be checked for Teensyduino to work.
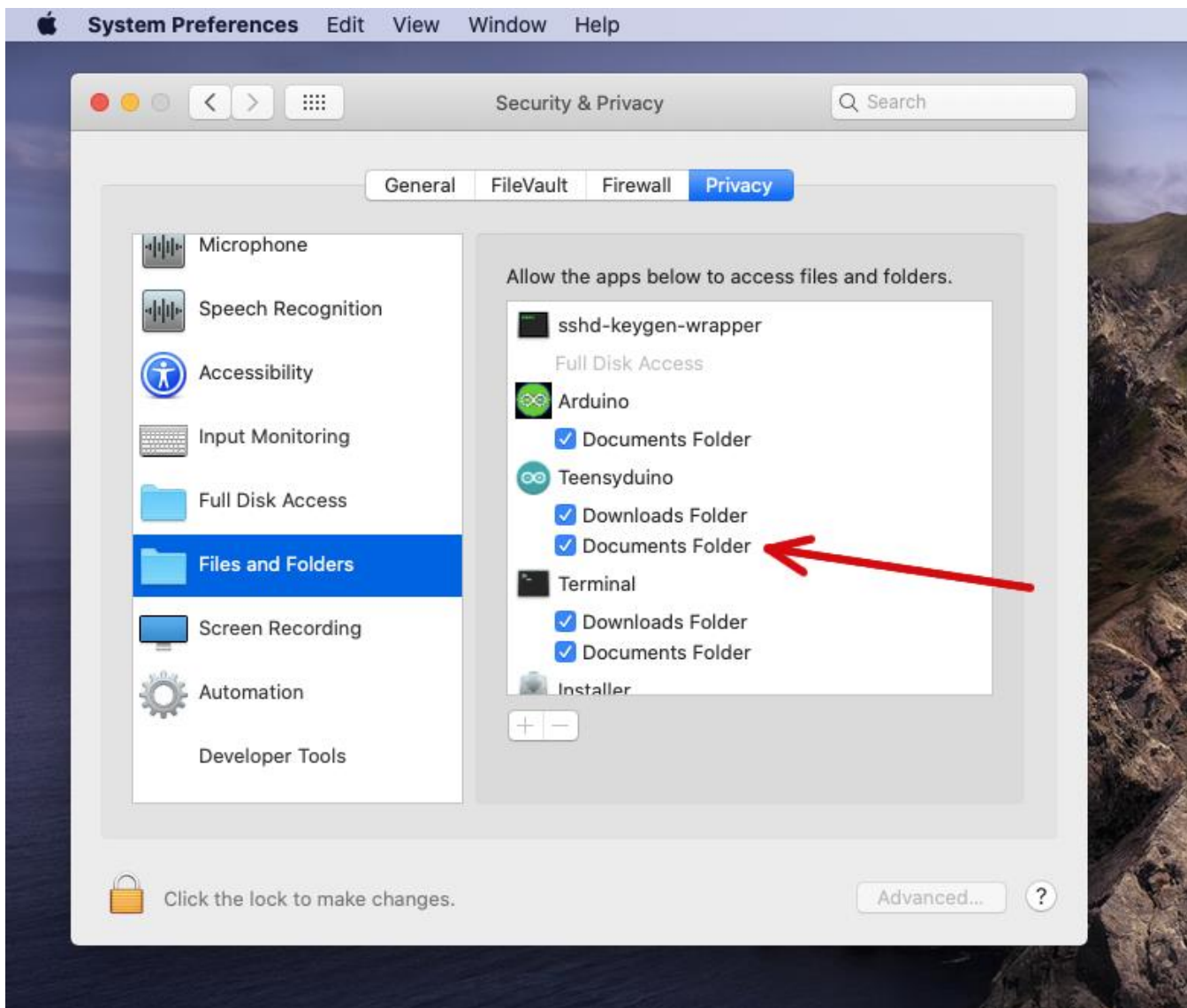
All: Serial + Keyboard + Mouse + Joystick requires Mac OS X Lion, or Windows XP SP3, Vista SP1, or Windows 7, or Linux 2.6.18 or later. Mac Snow Leopard and Windows XP SP2 do not support Serial when combined with other types.

Windows & Linux: When using the Serial Monitor with the USB Keyboard/Mouse option, sometimes a "teensy gateway communication error" can occur. Close and reopen the serial monitor to regain communication.

Windows: You may need to run the Teensyduino installer as administrator for it to install all files. Some anti-virus programs can also interfere with installation and must be temporarily disabled. A Norton AntiVirus Workaround was sent by Carl B.

All: The Upload button can only work if your Teensy is running a previously loaded sketch. If your board can not be rebooted automatically, a message will ask you to press the reset button.

Mac OS X: When you run Arduino after installing Teensyduino, the Leopard's firewall will recognize the program has changed and will ask again if you wish to allow internet

connection (Arduino checks for updates). Teensyduino does not "phone home", but Arduino does! TODO: is this still an issue with recent versions of Arduino??

Linux: By default, the TeensyduinoInstall.linux32 and TeensyduinoInstall.linux64 files will not have execute permission enabled when saved by most web browsers. Use a file manager or type "chmod 755 TeensyduinoInstall.linux32" in a terminal to make the file executable. Then you can run it. In a terminal, type "./TeensyduinoInstall.linux32". Replace "32" with "64" if using the 64 bit version, or "arm" if using the ARM (Raspberry Pi) version.

Linux: Teensyduino only works with Arduino from www.arduino.cc. The modified version provided by Ubuntu is not (yet) supported.

Linux (especially Gentoo): Arduino uses the AVR toolchain provided by your system. As of December 2011, Gentoo's avr-gcc is horribly broken. Some newer Fedora (avr-gcc 4.6.x) also have trouble. Faulty AVR toolchains are a persistent problem on Linux.