

## INSTALLING WINDOWS 7 ULTIMATE ON A MAC

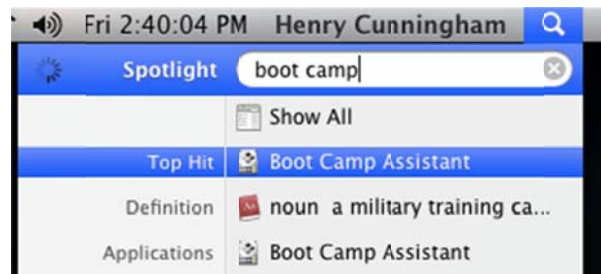
### WINDOWS UPGRADE LICENSING

Per the Microsoft Campus Agreement Contract, registered students have access to discounted upgrade copies of Windows 7 Ultimate. The UC Bookstore does not offer copies of the full installation media for Windows 7 Ultimate. However, a full installation can be accomplished using the upgrade media, as the product key rather than the contents of the disc determines this ability. The product key included with Windows 7 Ultimate entitles the user to an upgrade license, which is valid for owners of any qualifying version of Windows.<sup>1</sup>

### USING THE BOOT CAMP UTILITY

Windows 7 can be installed on either a PC meeting the minimum requirements<sup>2</sup> or any Intel-based Mac<sup>3</sup> using the Boot Camp utility. This guide assumes that Windows will be installed on an Intel-based Mac meeting the minimum requirements for Windows 7. If installing a 64-bit build of Windows on a Mac, first determine whether the Mac supports 64-bit Windows.<sup>4</sup> All Macs will support the 32-bit builds of Windows.

1. Open the Spotlight menu and begin to type "boot camp" in order to reveal the Boot Camp Assistant. Launch the Boot Camp Assistant in Mac OS X by beginning to type "boot camp" into Spotlight.



2. If unfamiliar with the Windows installation process, reading the installation guide provided by the Boot Camp Assistant may be beneficial. However, please read the entire contents of this guide before proceeding.

<sup>1</sup> Upgrade path(s) to Windows 7 - <http://blogs.msdn.com/b/mithund/archive/2009/08/10/upgrade-path-s-to-windows-7.aspx>

<sup>2</sup> Windows 7 System Requirements - <http://windows.microsoft.com/en-us/windows7/products/system-requirements>

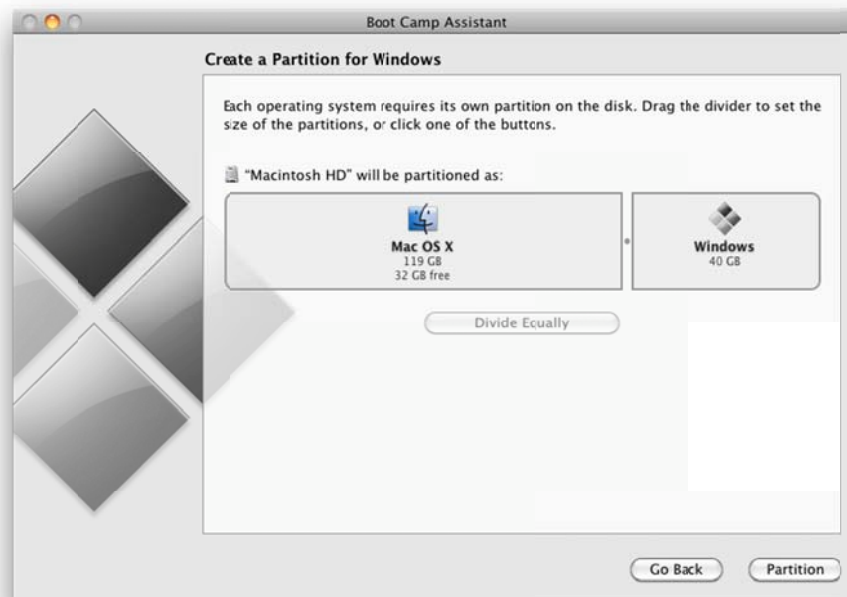
<sup>3</sup> Windows 7 Installation FAQs - <http://support.apple.com/kb/HT3986>

<sup>4</sup> Macs that work with 64-bit editions of Microsoft Windows Vista and Windows 7 - <http://support.apple.com/kb/HT1846>

3. Click on continue to proceed. If the Mac OS X Snow Leopard installation media is available, decline the option to download the Windows support software for the Mac, and continue. When prompted to launch the Windows installer or create a Windows partition, choose to create a Windows partition and click continue.



4. The minimum system requirements for the 64-bit build of Windows 7 require at least 20 GB of space. If performing an installation from the upgrade media, reserve at least 40 GB.

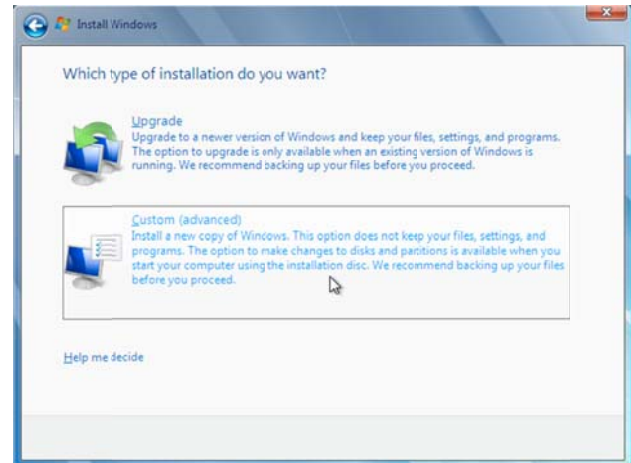


## INSTALLING WINDOWS 7

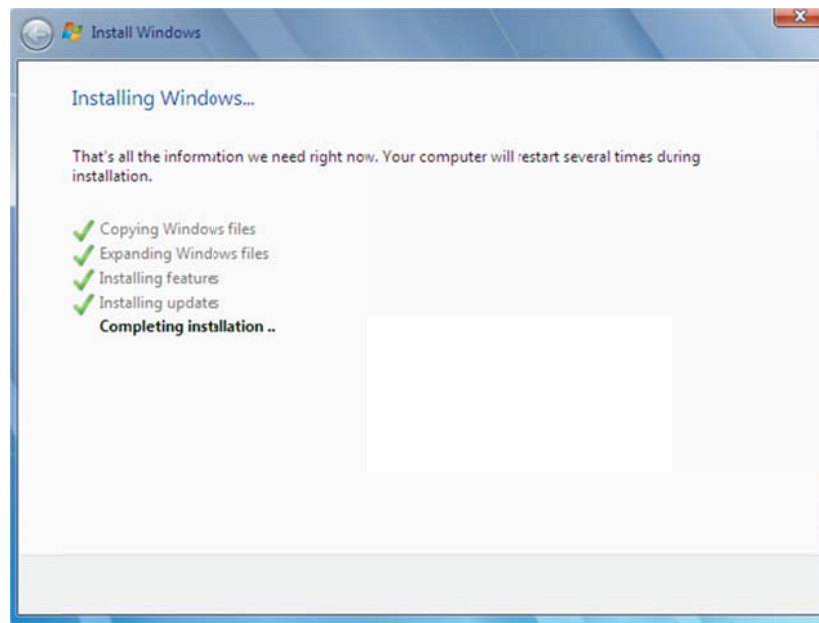
After the creation of a new partition using the Boot Camp Assistant, the rest of the installation is essentially the same as installing Windows on a PC. As previously mentioned, the installation will take place in two rounds, one wherein a full installation (sometimes referred to as a clean installation) will be performed without the product key entered and an upgrade installation with the product key. The entire process will take more than an hour, but the majority of the installation time can be spent unattended.

1. After the Windows partition has been created, restart the Mac with the Windows 7 installation media inserted in the DVD-ROM drive.
2. In order to ensure successful activation with a clean installation, Windows must be installed in two rounds. Because there is currently no installation of Windows on the selected partition, the upgrade option will not be available. In the first round of installation the “Custom (advanced)” option must be chosen in order to perform a clean installation of Windows.

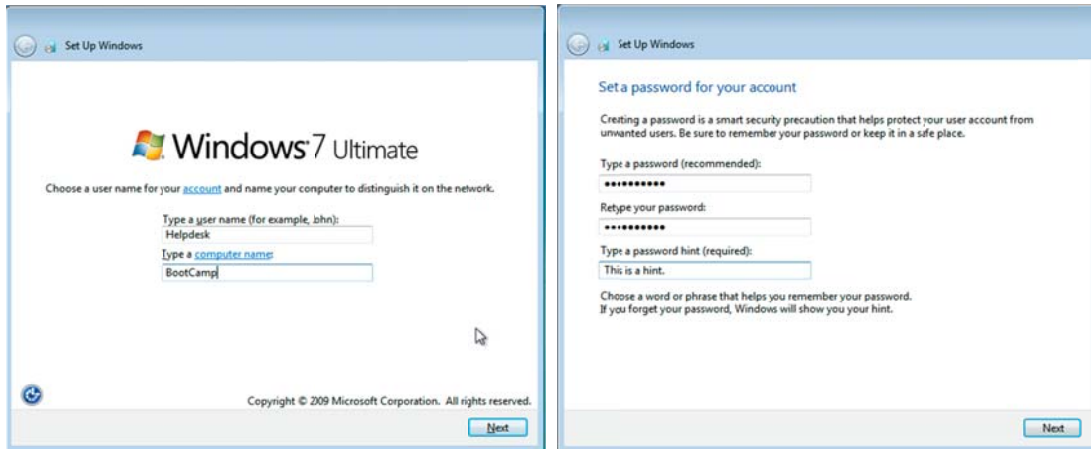
3. When prompted to choose a partition on which to install Windows, choose the partition that was automatically created by the Boot Camp Assistant in Mac OS X. By default it should be labeled as “BOOTCAMP” and will be unformatted. Select this partition, click “Drive Options (advanced),” and click “Format.” This will erase any data stored on the partition.



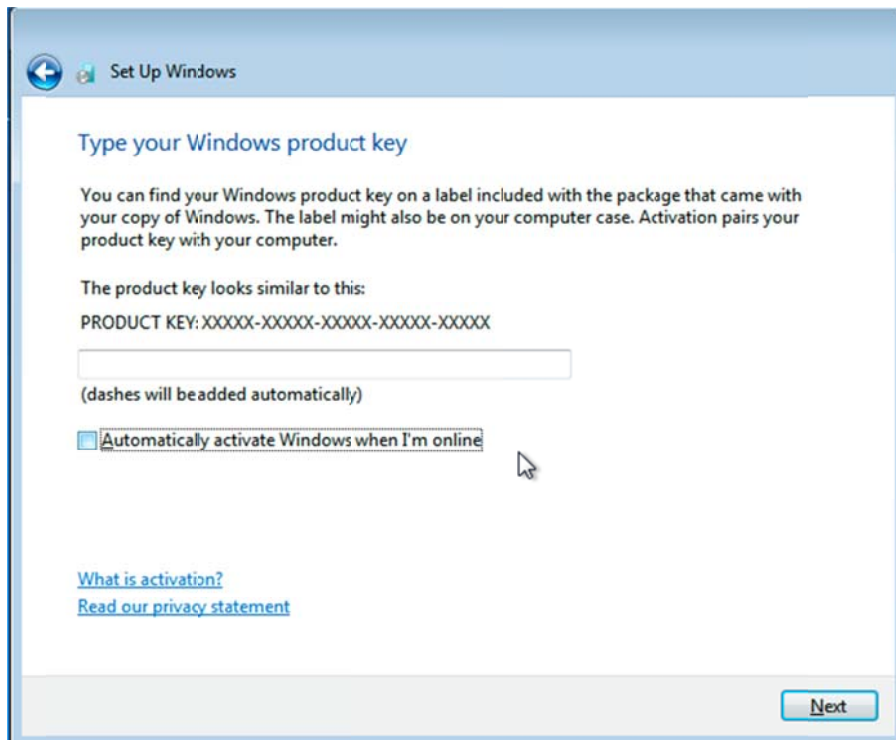
4. Wait for the first installation round to complete. During this process all essential operating system files will be copied to the newly formatted partition, and it will take approximately twenty (20) minutes to complete.



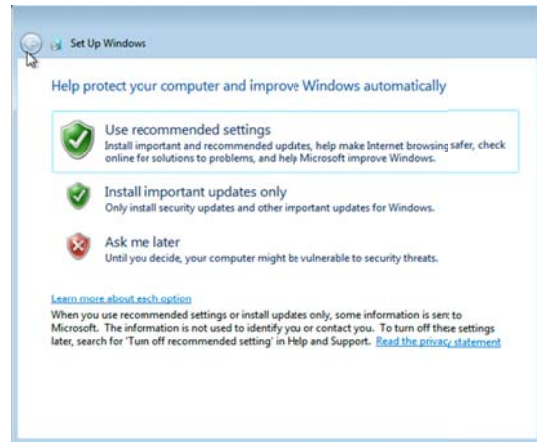
5. After the installer has finished, a last set of configuration options will appear. Choose a username for the owner and a hostname for the Mac. The next screen will require a password and password hint to be set.



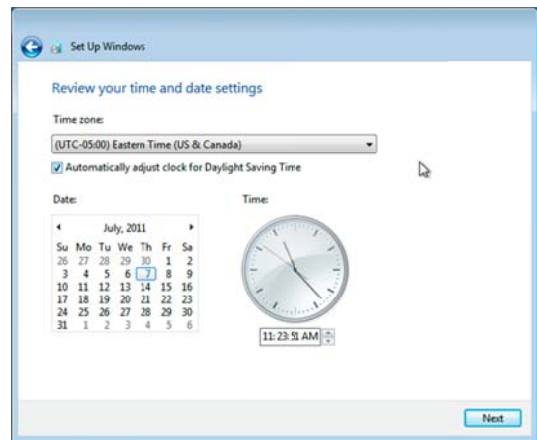
6. The following step is crucial. In this first round of installing Windows, leave the field for the product key blank and do not automatically activate. Use of the product key and the activation of Windows must be saved for the second round.



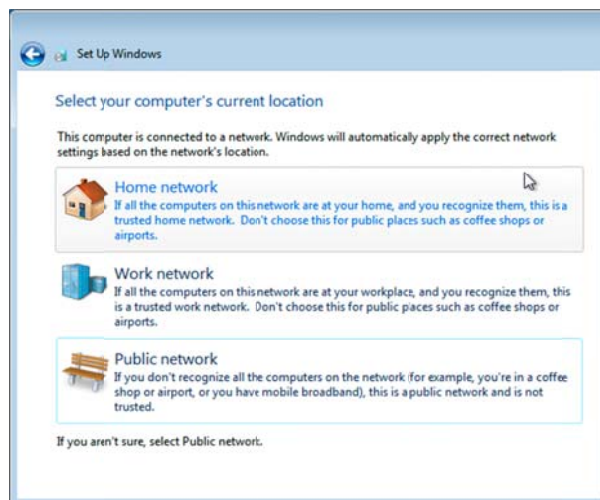
7. Automatic updates should be saved until the second round of installation. Any updates installed at this point will be rolled back during the next round of installation. Click “Ask me later” to continue.



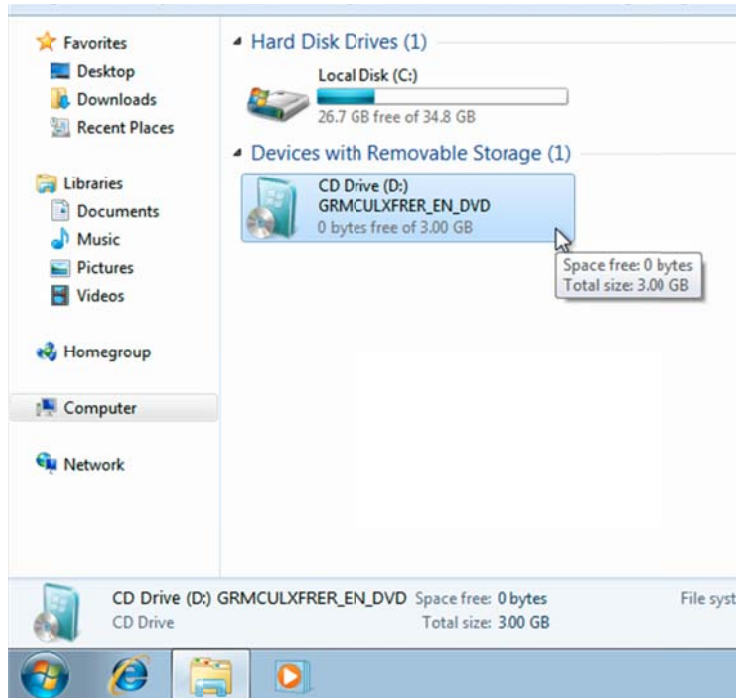
8. Set the time zone to UTC-05:00, Eastern Time. If located in a different time zone, select the appropriate time zone.



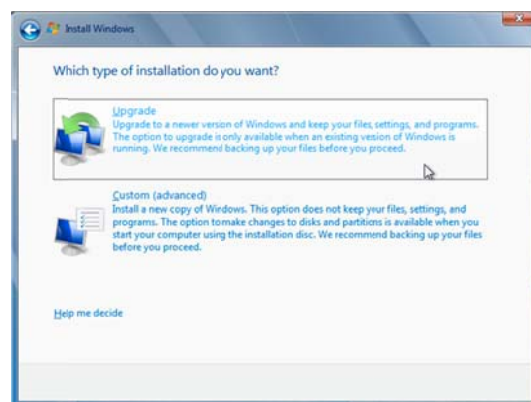
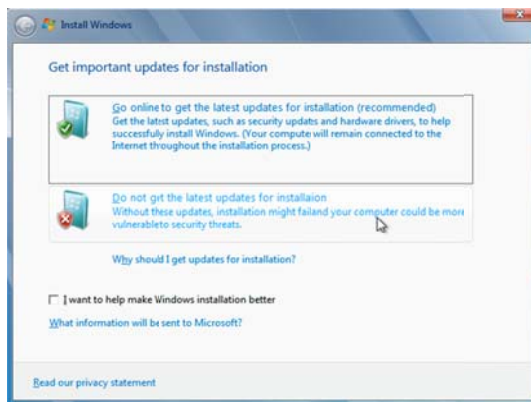
9. Select an appropriate network location. For home use, the “home” network location is most likely a safe choice. “Public” should be selected if connected to an unsecured network, such as UCGuest or other open wireless networks.



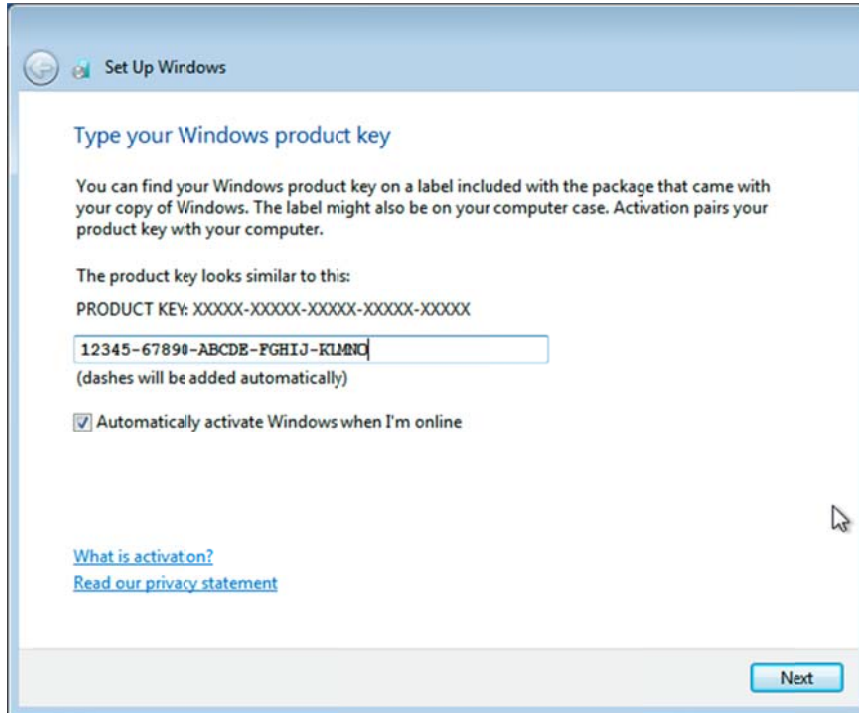
10. When the desktop environment first loads, click Start (the Windows logo in the bottom left-hand corner of the screen) and click Computer. Double-click the icon representing the Windows installation DVD, still in the optical drive. This will launch the installer again and begin the second round of installation. If AutoRun does not launch the installer, open setup.exe.



11. Because a copy of Windows is currently installed on the Mac, it is now possible to perform an in-place upgrade. This will make activation with the upgrade key possible. Click "Install now" and choose "Update" to begin the second round of installation. If prompted to install updates, choose "do not install latest updates for installation."



12. Enter the product key included with the Windows 7 upgrade media. This will begin the second round of installation.



13. The second round will take significantly longer because it is an in-place upgrade rather than a clean installation. Expect this process to take up to one (1) hour to complete. After the operating systems have been copied to the partition a second time, repeat steps 7 through 9.

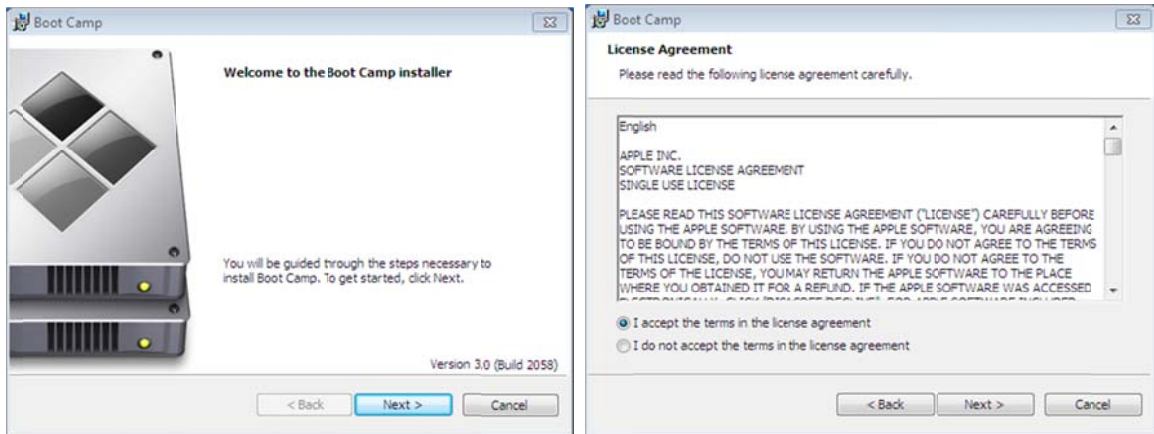
## INSTALLING THE BOOT CAMP DRIVERS

An Intel-based Mac has much of the standard hardware found in a modern PC. As such, drivers for each hardware device must be installed in order for Windows 7 to utilize each device. These drivers (branded as the Boot Camp drivers) come with every Mac OS X installation disc that ships with the Mac. If the Mac shipped with multiple Mac OS X installation discs, the drivers will come packaged on the first disc.

1. Insert the Mac OS X installation disc. If AutoRun is enabled, a dialog will appear offering to launch setup.exe. Launching setup.exe will open the installer for the boot camp drivers. The installer can be launched manually, if AutoRun is disabled, by clicking opening the Computer window from the Start Menu. The program setup.exe can be found by double-clicking the icon representing the DVD-ROM drive, and double-clicking setup.exe will launch the installer.



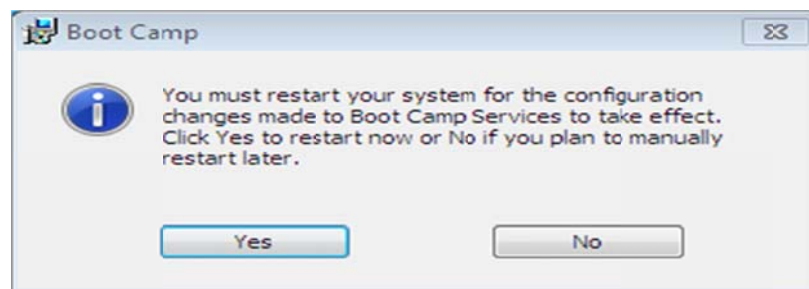
2. Agree to the Boot Camp license agreement to continue.



3. Enabling automatic updates provides the Windows installation with the latest driver updates for the Mac hardware.



4. The Mac must reboot before Windows can utilize the Boot Camp drivers. Essential hardware components, such as wireless networking and sound, will now function properly.



5. After running Boot Camp Assistant and installing Microsoft Windows and the Boot Camp drivers, hold the Option (Alt) key when you start up to switch between Microsoft Windows and Mac OS X. Use the Startup Disk control panel in Windows or Mac OS X Startup Disk preferences to set the default operating system to use each time the computer starts up.