

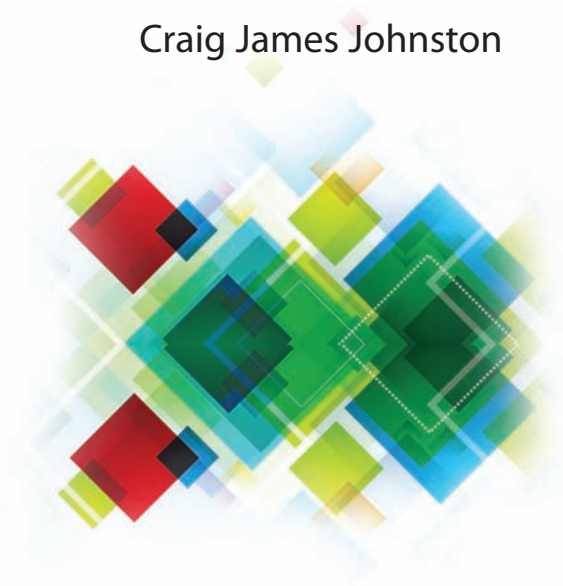
# My Samsung Galaxy™ Nexus™



**COVERS**  
Android 4

# My Samsung Galaxy™ Nexus™

Craig James Johnston



**QUE**®

800 East 96th Street,  
Indianapolis, Indiana 46240 USA

# My Samsung Galaxy™ Nexus™

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## About the Author

**Craig James Johnston** has been involved with technology since his high school days at Glenwood High in Durban, South Africa, when his school was given some Apple ][ Europluses. From that moment technology captivated him, and he has owned, supported, evangelized, and written about it.

Craig has been involved in designing and supporting large-scale enterprise networks with integrated email and directory services since 1989. He has held many different IT-related positions in his career ranging from sales support engineer to mobile architect for a 40,000-smartphone infrastructure at a large bank.

In addition to designing and supporting mobile computing environments, Craig co-hosts the CrackBerry.com podcast, as well as guest hosting on other podcasts including iPhone and iPad Live podcasts. You can see Craig's previously published work in his books *Professional BlackBerry*, and many books in the *My* series, including *My BlackBerry Curve*, *My Palm Pre*, *My Nexus One*, *My DROID* (first and second editions), *My Motorola Atrix 4G*, *My BlackBerry PlayBook*, and *My HTC EVO 3D*.

Craig also enjoys high-horsepower, high-speed vehicles and tries very hard to keep to the speed limit while driving them.

Originally from Durban, South Africa, Craig has lived in the United Kingdom, the San Francisco Bay Area, and New Jersey, where he now lives with his wife, Karen, and a couple of cats.

Craig would love to hear from you. Feel free to contact Craig about your experiences with *My Samsung Galaxy Nexus* at <http://www.CraigsBooks.info>.

All comments, suggestions, and feedback are welcome, including positive and negative.

## Dedication

*“Any sufficiently advanced technology is indistinguishable from magic.”*

—Arthur C. Clark

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## We Want to Hear from You!

As the reader of this book, *you* are our most important critic and commentator. We value your opinion and want to know what we're doing right, what we could do better, what areas you'd like to see us publish in, and any other words of wisdom you're willing to pass our way.

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Drag to launch  
the camera

Drag to  
unlock

AT&T



# Prologue

In this chapter, you learn about the external features of the Galaxy Nexus and the basics of getting started with the Android operating system. Topics include the following:

- The Galaxy Nexus external features
- Fundamentals of Android 4 (Ice Cream Sandwich)
- First time setup
- Installing synchronization software



## Getting to Know Your Galaxy Nexus

Let's start by getting to know more about your Galaxy Nexus by examining the external features, device features, and how Google's latest operating system, Android 4.0 (or Ice Cream Sandwich), works.

One important thing to remember about any Android smartphone bearing the Nexus name is that it is a pure Android phone with no wireless carrier or vendor modifications. Google, the company that makes Android, commissions Nexus phones to have the latest features and run the latest version of Google's Android operating system, in this case Android 4, but Google insists that it is the pure, unchanged version of Android.

## The Galaxy Nexus External Features

Becoming familiar with the external features of your Galaxy Nexus is a good place to start because you will be using them often. This chapter also covers some of the technical specifications of your

Galaxy Nexus, including the touch screen and camera. There are four versions of the Galaxy Nexus: Two that work on the global GSM networks (one of them with a logo on the back for NTT Docomo), and two that run on CDMA networks operated by U.S. carriers Verizon and Sprint.

The Global GSM version of the Galaxy Nexus is also known by its official model name of Samsung GT-i9250, the NTT Docomo GSM version is called the Samsung SC-04D, the Verizon CDMA version is known as the Samsung SCH-i515, and the Sprint CDMA version is the Samsung SPHL-700.

## Front



**Proximity sensor** Detects when you place your Galaxy Nexus against your ear to talk, which causes it to turn off the screen to prevent any buttons from being pushed inadvertently.

**Light sensor** Adjusts the brightness of the screen based on the brightness of the ambient light.

**Earpiece** Hold against your ear while on a call.

**Indicator light** Indicates new events (such as missed calls or new email). The light can be any color combination of red, green, or blue (RGB) so different apps can use different colors of alerts.

**Front camera** 5.0 Megapixel front-facing camera that you can use for video chat, taking self-portraits, and even unlocking your Galaxy Nexus using your face.

**Touchscreen** The Galaxy Nexus has a 4.65" 720×1280 pixel Super AMOLED HD (Super Active-Matrix Organic Light-Emitting Diode) screen that incorporates capacitive touch.

**Back button** Touch to go back one screen when using an application or menu. This virtual button is actually on the screen.

**Recent Apps button** Touch to see a list of recently used apps and switch between them. This virtual button is actually on the screen.

**Home button** Touch to go to the Home screen. The application that you are using continues to run in the background. This virtual button is actually on the screen.

## Back



**5 Megapixel camera with autofocus** Takes clear pictures close-up or far away.

**LED (Light Emitting Diode) camera flash** Helps to illuminate the surroundings when taking pictures in low light.

**Speaker** Produces audio when speakerphone is in use. Place your Galaxy Nexus on a hard surface for the best audio reflection.

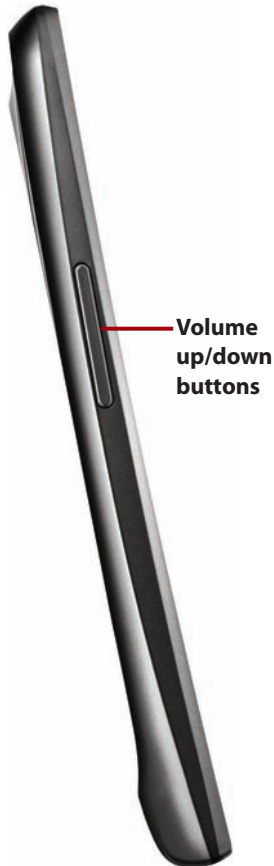
**Noise-cancelling microphone** Used in conjunction with the regular microphone on phone calls to reduce background noise. This microphone is also used when you record videos.

**3.5mm headphone jack** Used with third-party headsets so you can enjoy music and talk on the phone.

**MHL-compliant Micro-USB port** Used to synchronize your Galaxy Nexus to your desktop computer and charge it, but because it is Mobile High-definition Link (MHL) compliant, you can use it to play movies on your TV via HDMI using a special cable or dock.

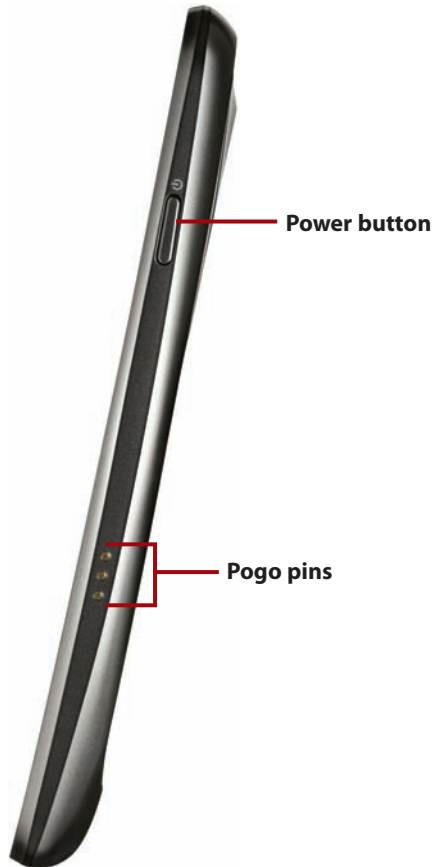
**Back cover removal point** Insert your fingernail and pull to remove the back cover.

## Left Side



**Volume up/down buttons** Control the audio volume on calls and while playing audio and video.

## Right Side



**Power button** Press once to wake your Galaxy Nexus. Press and hold for one second to reveal a menu of choices. The choices enable you to put your Galaxy Nexus into silent mode, airplane mode, or power it off completely.

**Pogo pins** Use with accessories and docks to automatically start certain applications and charge your Galaxy Nexus. For example, a vehicle dock could automatically launch the Navigation app.

## Main Differences Between the Four Galaxy Nexus Versions

Every aspect of the four versions of the Galaxy Nexus is the same with the exception of the size and mobile technologies supported.

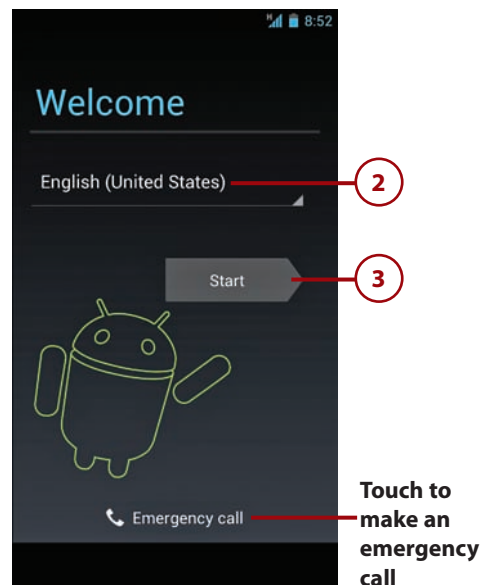
The Global GSM version of the Galaxy Nexus (the GT-i9250) and the NTT Docomo GSM version (SC-04D) is 135.5mm × 67.9mm × 8.9mm and weighs 135g, whereas the Verizon CDMA version (SCH-i515) and the Sprint CDMA version (SPHL-700) is 135.5mm × 67.9mm × 9.5mm and weighs 150g.

The Global GSM and GSM NTT Docomo versions support the GSM 850/900/1800/1900 2G networks and the HSDPA 850/900/1700/1900/2100 3G networks, whereas the CDMA versions supports the CDMA 800/1900 2G networks, the CDMA2000 1xEV-DO 3G network. The Verizon version supports the LTE 700 4G network; the Sprint version supports the LTE 1900 4G network.

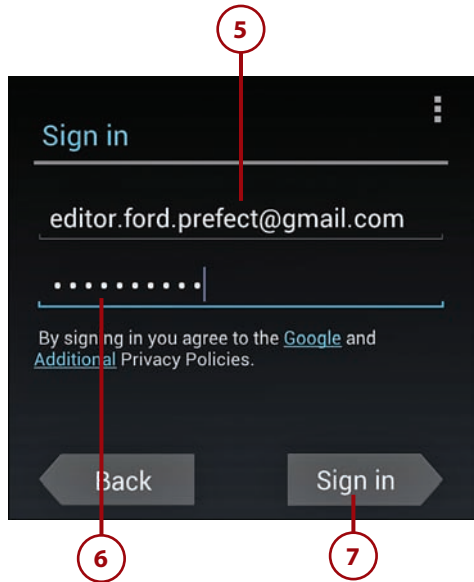
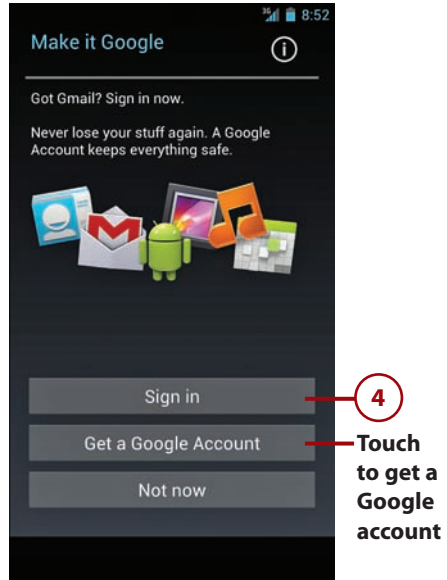
## First-Time Setup

Before setting up your new Samsung Galaxy Nexus it is advisable you have a Google account. This is because your Galaxy Nexus running Android is tightly integrated into Google and enables you to store your content in the Google cloud, including any books and music you buy or movies you rent. If you do not already have a Google account, head to <https://accounts.google.com> on your desktop computer and sign up for one.

1. Touch and hold the Power button until you see the animation start playing after you have inserted the SIM card (non-Verizon only) and battery.
2. Touch to change your location if needed.
3. Touch Start.

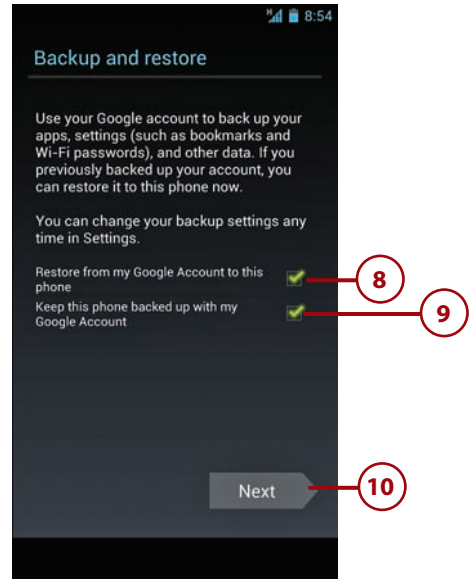


4. Touch Sign in.
5. Enter your Google account user-name (which is your Gmail email address).
6. Enter your Google account password.
7. Touch Sign In.

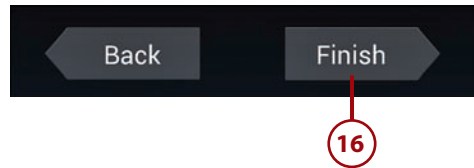




8. Check this box if you are switching from a previous Android phone and want to move all of your apps and settings to your new Galaxy Nexus.
9. Check this box if you want your apps and settings to be backed up to the Google cloud.
10. Touch Next.
11. Check this box if you are okay with Google collecting information about your geographic location at any time. Although Google keeps this information safe, if you are concerned about privacy rights you should uncheck this box.
12. Check this box if you are okay with Google using your geographic location for Google searches and other Google services.
13. Touch Next.



14. Enter your first name (given name) and last name (surname).
15. Touch Next.
16. Touch Finish.



## Fundamentals of Android 4

Your Galaxy Nexus is run by an operating system called Android. Android was created by Google to run on any smartphone, and there are quite a few phones that run on Android today. Your Galaxy Nexus uses the latest version of Android, called Android 4 (or Ice Cream Sandwich). Let's go over how to use Android 4.

## The Unlock Screen

If you haven't used your Galaxy Nexus for a while, the screen goes blank to conserve battery power. Here is how to interact with the Lock screen.

1. Press the Power button to wake up your Galaxy Nexus.
2. Slide the padlock icon to the right to unlock Galaxy Nexus.
3. Slide the padlock icon to the left to launch the camera app.

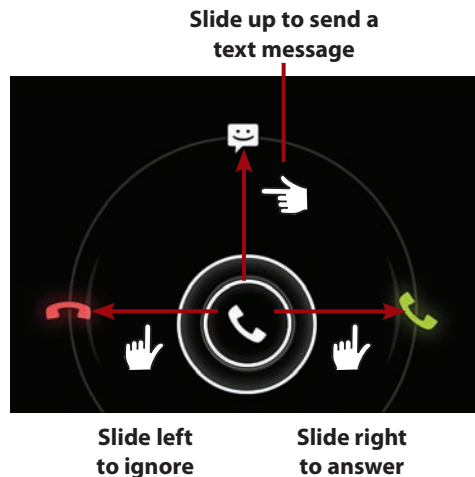
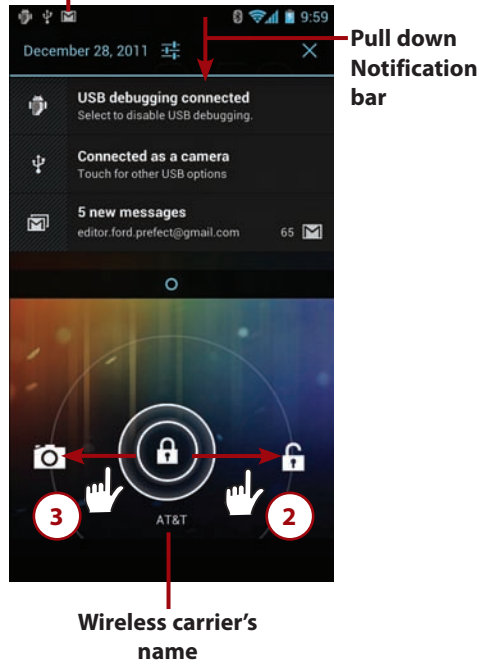
## Work with Notifications on the Lock Screen

With Android 4 you can work with notifications right on the Lock screen. If you see notifications in the Notification bar, pull down the Notification bar to view and clear them. Touching a notification takes you straight to the app that created them. Read more about the Notification bar later in this section.

## Answer a Call from the Lock Screen

If your Galaxy Nexus is locked when a call comes in, the padlock icon becomes a phone icon. Drag it to the right to answer the incoming call. Drag it to the left to ignore the incoming call and send it straight to Voice Mail. Drag it up to send a text message (SMS) to the caller.

### Notifications



## The Home Screen(s)

After you unlock your Galaxy Nexus, you are presented with the middle Home screen. Your Galaxy Nexus has five Home screens. The Home screens contain application shortcuts, a Launcher icon, Notification Bar, Shortcuts, Favorites Tray, and widgets.

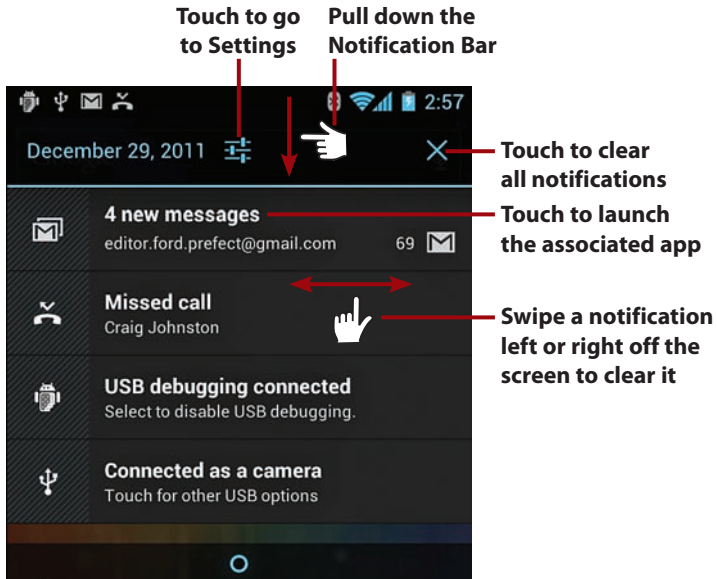


**Notification Bar** The Notification Bar shows information about Bluetooth, Wi-Fi, and cellular coverage, as well as the battery level and time. The Notification Bar also serves as a place where apps can alert or notify you using notification icons.

**Notification icons** Notification icons appear in the Notification Bar when an app needs to alert or notify you of something. For example, the Phone app can show the missed call icon indicating that you missed a call.

## Working with Notifications

To interact with notifications that appear in the Notification Bar, place your finger above the top of the screen and drag it down to reveal the notifications. Touch the blue X to clear all notifications or swipe each individual notification off the screen to the left or right to clear them one by one.



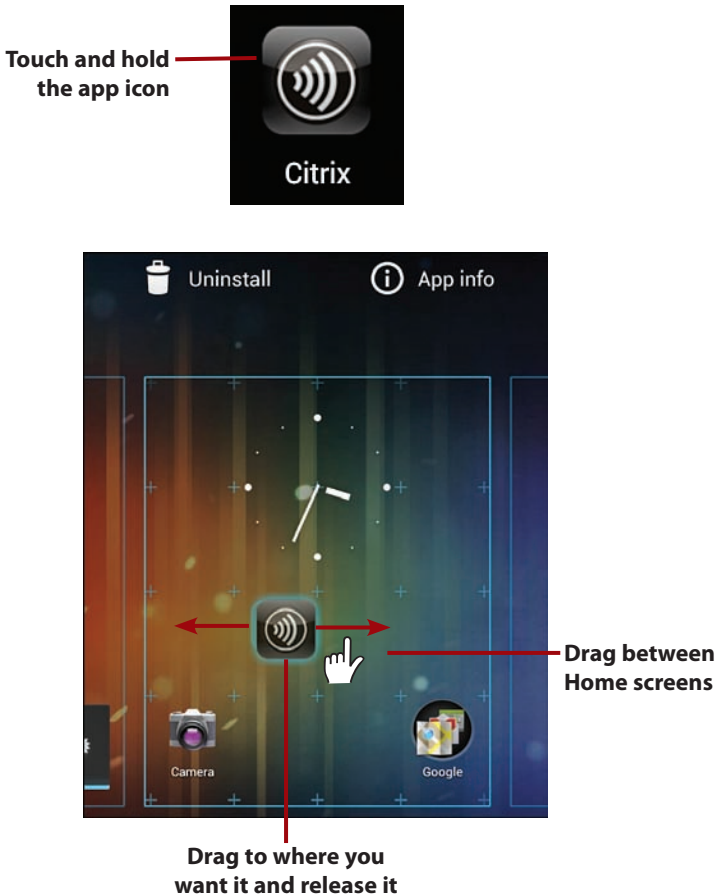
**Widgets** Widgets are applications that run right on the Home screens. They are specially designed to provide functionality and real-time information. An example of a widget is one that shows the current weather or provides search capability. You can move and resize widgets.

**App shortcut** Touching an app shortcut launches the associated app.

---

## Creating App Shortcuts

Touch the Launcher icon to see all of your apps. Touch and hold on the app you want to make a shortcut for. After the Home screens appear, drag the app shortcut to where you want it on the Home screen, drag it to an App Folder to add it to the folder, or drag it left or right off the screen to move it between Home screens. Release the icon to place it.



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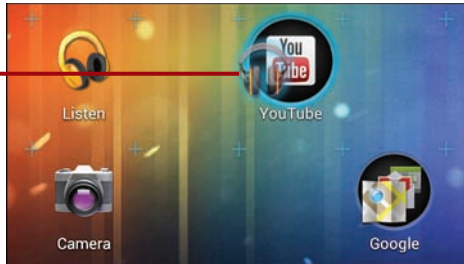
**App Folders** App Folders are groups of apps that you can use to organize apps and declutter your screen.

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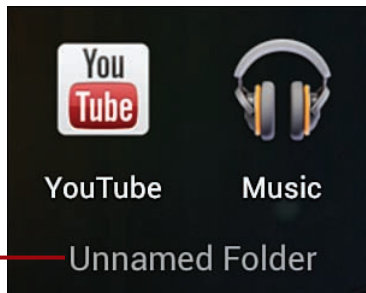
## Creating App Folders

To create a new App Folder, simply drag one app shortcut onto another one. An App Folder is created automatically. To name your new App Folder, touch the folder to open it and touch Unnamed Folder to enter your own name.

Drag icons onto each other to make folders



Touch to name your App Folder



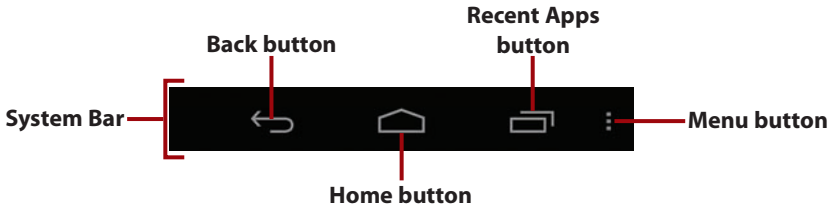
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**Favorites Tray** The Favorites Tray is visible on all five Home screens. You can drag apps to the Favorites Tray so that they are available no matter which Home screen you are looking at. Apps in the Favorites Tray can be rearranged and removed.

**Launcher icon** Touch to show application icons for all applications that you have installed on your Galaxy Nexus.

## The System Bar

Your Galaxy Nexus running Android 4 has no physical buttons. Instead it has an area of the screen set aside for virtual buttons. This new area is called the System Bar. The System Bar includes the Back, Home, and Recent Apps virtual buttons. When apps run, the Menu button virtual button is also visible.



**System Bar** Reserved area of the screen where virtual buttons are displayed.

**Back button** Touch to go back one screen in an app or back one step while navigating Android.

**Home button** Touch to exit what you are doing and return to the Home screen.

**Recent Apps button** Touch to see your recently used apps, switch between them, and close them.

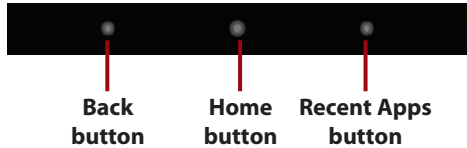
**Menu button** Replaces the physical Menu button that was used with previous versions of Android and provides contextual actions. While apps are running, the Menu button normally appears in the System Bar but can sometimes appear in the top right of the screen.



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## Vanishing System Bar

Some apps can dim or hide the System Bar to provide that little extra screen real estate. When this happens, the virtual buttons are still there, however, they are reduced to very dim dots.



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## Using Your Touchscreen

Interacting with your Galaxy Nexus is done mostly by touching the screen—what's known as making gestures on the screen. You can touch, swipe, pinch, double-tap, and type.

**Touch** To start an application, touch its icon. Touch a menu item to select it. Touch the letters of the onscreen keyboard to type.



**Touch and hold** Touch and hold to interact with an object. For example, if you touch and hold a blank area of the Home screen, a menu pops up. If you touch and hold an icon, you can reposition it with your finger.



**Drag** Dragging always starts with a touch and hold. For example, if you touch the Notification Bar, you can drag it down to read all of the notification messages.



**Swipe or slide** Swipe or slide the screen to scroll quickly. To swipe or slide, move your finger across the screen quickly. Be careful not to touch and hold before you swipe or you will reposition something. You can also swipe to clear notifications or close apps when viewing the recent apps.



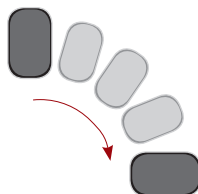
**Double-tap** Double-tapping is like double-clicking a mouse on a desktop computer. Tap the screen twice in quick succession. For example, you can double-tap a web page to zoom in to part of that page.



**Pinch** To zoom in and out of images and pages, place your thumb and forefinger on the screen. Pinch them together to zoom out or spread them apart to zoom in (unpinching). Applications such as Browser, Gallery, and Maps support pinching.



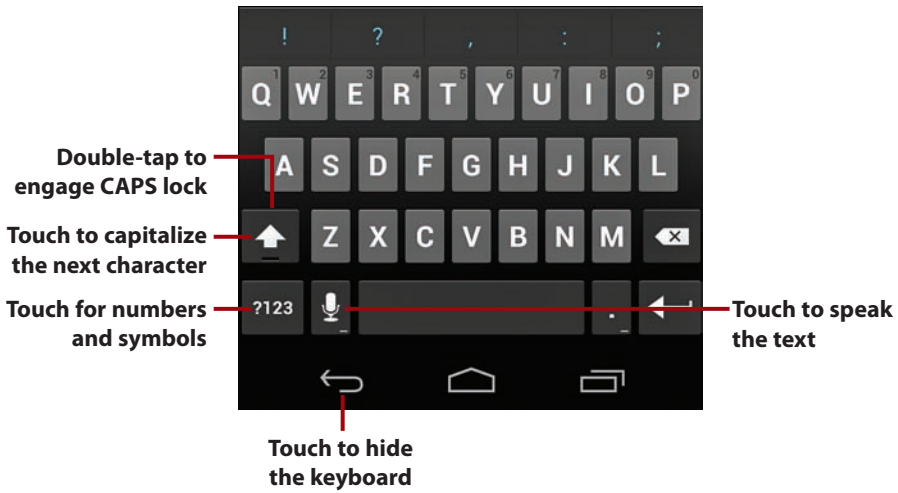
**Rotate the screen** If you rotate your Galaxy Nexus from an upright position to being on its left or right side, the screen switches from portrait view to landscape view. Most applications honor the screen orientation. The Home screens and Launcher do not.



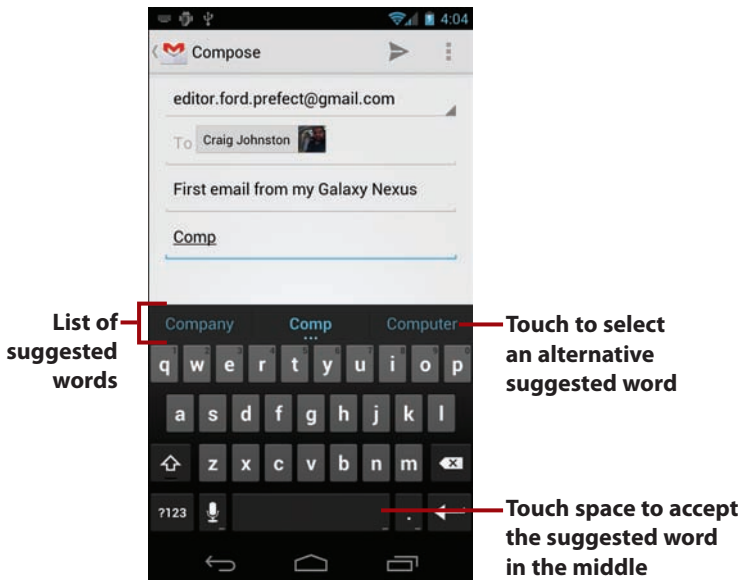
## Using Your Keyboard

Your Galaxy Nexus has a virtual (onscreen) keyboard for those times when you need to enter text. You may be a little wary of a keyboard that has no physical keys, but you will be pleasantly surprised at how well it works.

Some applications automatically show the keyboard when you need to enter text. If the keyboard does not appear, touch the area where you want to type and the keyboard slides up ready for use.



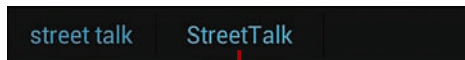
Using the virtual keyboard as you type, your Galaxy Nexus makes word suggestions. Think of this as similar to the spell checker you would see in a word processor. Your Galaxy Nexus uses a dictionary of words to guess what you are typing. If the word you were going to type is highlighted, touch space or period to select it. If you can see the word in the list but it is not highlighted, touch the word to select it.



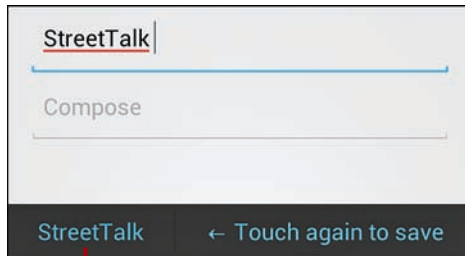
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## Add Your Word

If you type a word that you know is correct, you can add it to your personal dictionary so that next time you type it, your Galaxy Nexus won't try to correct it. To do this, after you have typed the word, you see it as the middle suggested word. Touch the word once. Your word is underlined in red and listed in the suggested words area. Touch it one more time to add it to your personal dictionary.



**Touch to add your  
word to the dictionary**



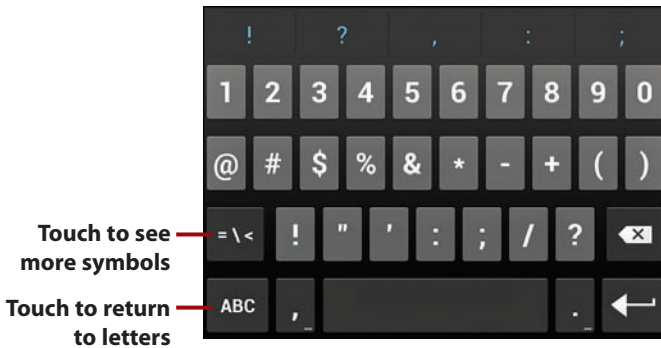
**Touch your word again  
to complete the save**

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To make the next letter you type a capital letter, touch the Shift key. To make all letters capitals (or CAPS), double-tap the Shift key to engage CAPS Lock. Touch Shift again to disengage CAPS Lock.

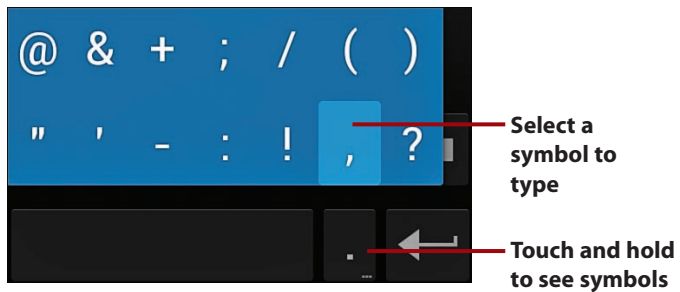
To type numbers or symbols, touch the Symbols key.

When on the Numbers and Symbols screen, touch the Symbols key to see extra symbols. Touch the ABC key to return to the regular keyboard.

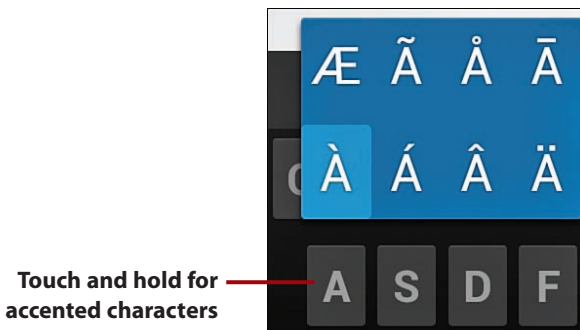


## Quick Access to Symbols

If you want to type commonly used symbols, touch and hold the period key. A small window opens with those common symbols. Slide your finger over the symbol you want to type and lift it to type that symbol.



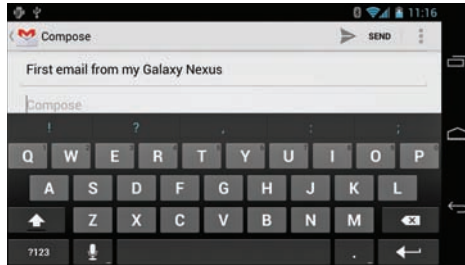
To enter an accented character, touch and hold any vowel or the C, N, or S keys. A small window opens enabling you to select an accented or alternative character. Slide your finger over the accented character and lift your finger to type it.



To reveal other alternative characters, touch and hold any other letter, number, or symbol.

## Want a Larger Keyboard?

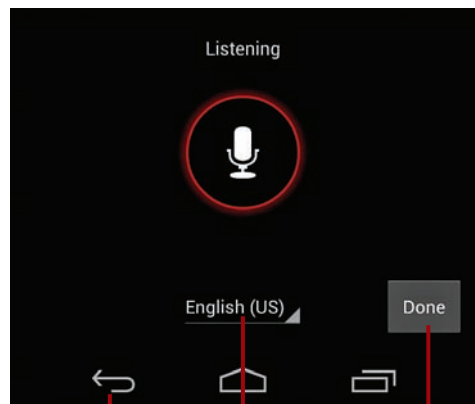
Turn your Galaxy Nexus sideways to switch to a landscape keyboard. The landscape keyboard has larger keys and is easier to type on.



## Dictation: Speak Instead of Typing

Your Galaxy Nexus can turn your voice into text. It uses Google's speech recognition service, which means that you must have a connection to the cellular network or a Wi-Fi network in order to use it.

1. Touch the microphone key.
2. Wait until you see Listening and start speaking what you want to be typed. You can speak the punctuation by saying "comma," "question mark," "exclamation mark," or "exclamation point."
3. Touch Done to exit dictation mode.



Touch to  
cancel

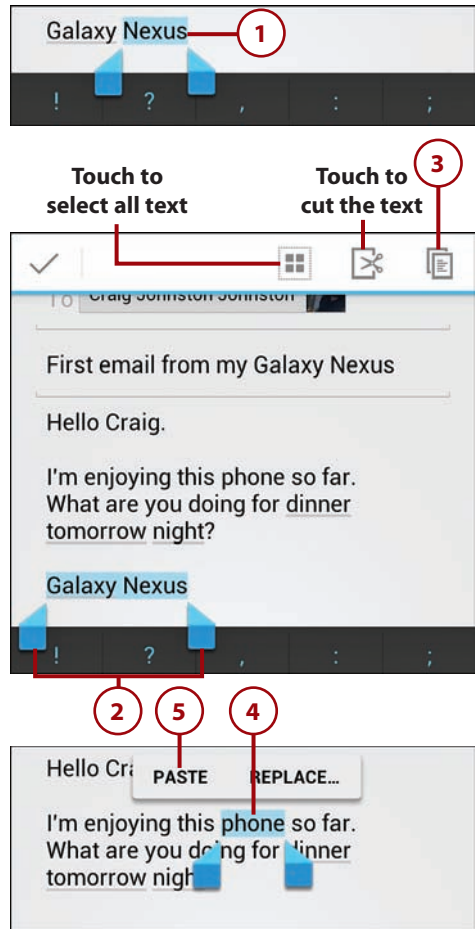
Touch to select  
a different  
dictation  
language

3

## Editing Text

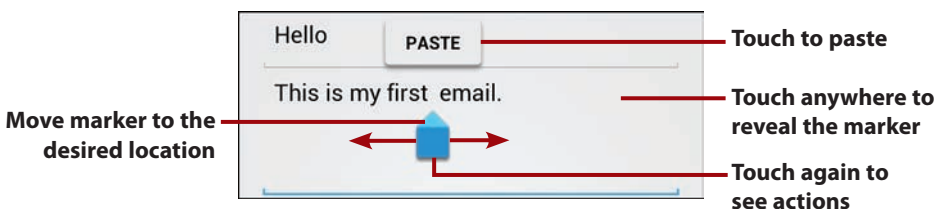
After you enter text, you can edit it by cutting, copying, or pasting the text. Here is how to select and copy text and then paste over a word with the copied text.

1. While you are typing, touch and hold a word you want to copy.
2. Slide the blue end markers until you have selected all of the text you want to copy.
3. Touch to copy the text.
4. Touch and hold the word you want to paste over.
5. Touch Paste.



## Simpler Copy/Paste

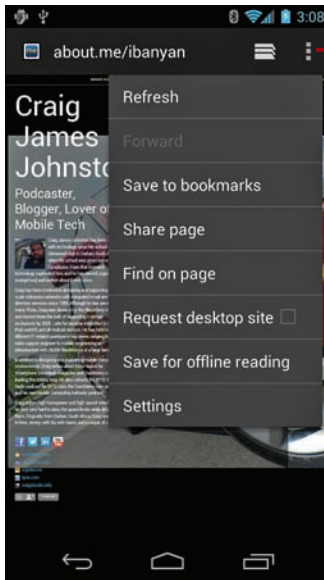
You might want to just copy some text and paste it somewhere else instead of pasting it over a word. To do this, after you have copied the text, touch once in the text area, move the single blue marker to where you want to paste the text. Touch the blue marker again and touch Paste.



## Menus

Your Galaxy Nexus has two types of menus: Regular menus and Context menus. Let's go over what each one does.

Most applications have a Menu button. These enable you to make changes or take actions within that application. The Menu button can appear in the System Bar next to the Recent Apps button, on the top-right on the screen, or elsewhere in the app.



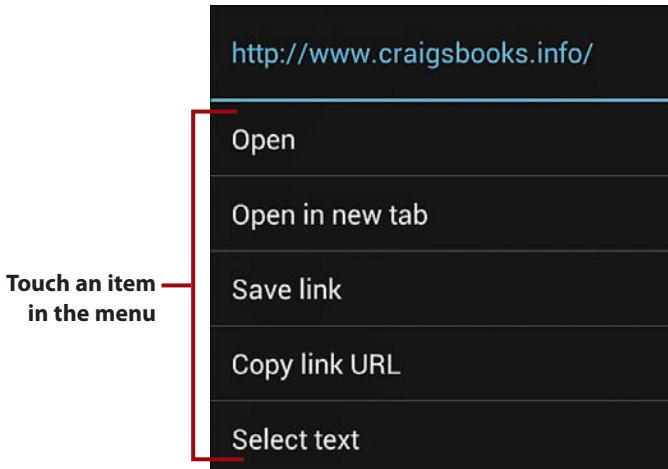
Touch the Menu button to reveal the App menu

A Context menu applies to an item on the screen. If you touch and hold something on the screen (in this example, a link on a web page), a Context menu appears. The items on the Context menu differ based on the type of object you touched.



Touch and hold a link to reveal the link Context menu





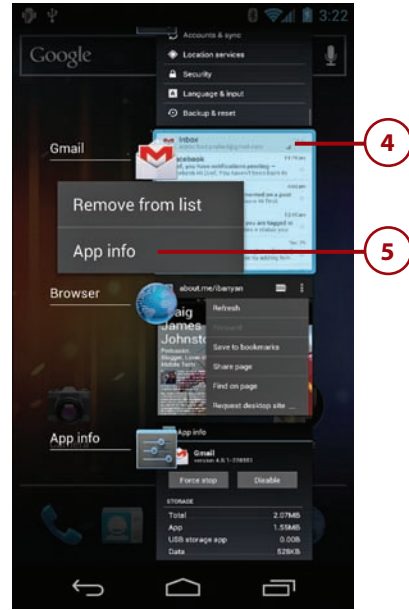
## Switching Between Apps

As discussed earlier in this chapter, your Galaxy Nexus has a new button called the Recent Apps button. This button is always in the System Bar at the bottom of your screen. You can use this button to switch between apps, close apps, and force them to quit if they have stopped responding. Here is how.

1. Touch the Recent Apps button.
2. Scroll up and down the list of recent apps.
3. Swipe an app left or right off the screen to close it.



4. Touch and hold an app to reveal the menu.
5. Touch to force an app to close and see more information about the app.



## Installing Synchronization Software

Because your Galaxy Nexus is tightly integrated with Google and its services, all media that you purchase on your phone is stored in the Google cloud and accessible anywhere and anytime. However, you might have a lot of music on your computer already that you need to copy to your Google cloud and so you need to install the Google Music Manager software or the Android File Transfer app for your Mac to copy any file back and forth.

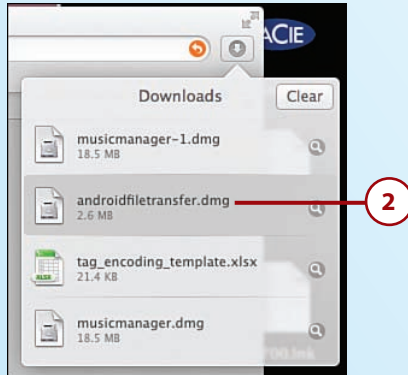
### Installing Android File Transfer (Apple Mac OSX)

You only need the Android File Transfer app when using a Samsung Android phone (such as your Galaxy Nexus) on an Apple Mac running OSX.

1. From your Mac, browse to <http://www.android.com/filetransfer/> and download the Android File Transfer app.



2. Double-click the app in your Safari Downloads.



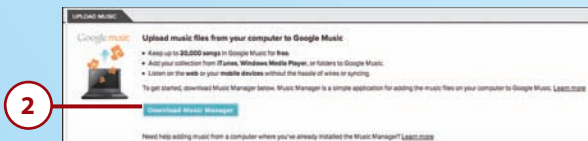
3. Drag the green Android to the Applications shortcut to install the app.



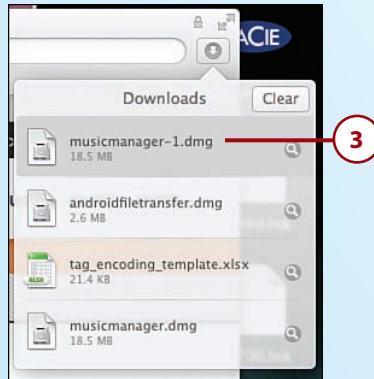
## Installing Google Music Manager (Apple Mac)

Don't install Google Music Manager unless you plan to upload files from your computer to the Google Music cloud.

1. Visit [https://music.google.com/music/listen#manager\\_pl](https://music.google.com/music/listen#manager_pl) from your desktop web browser and log in to your Google account if prompted.
2. Click to download Music Manager.



3. Double-click the app in your Safari Downloads.



4. Drag the Music Manager icon to the Applications shortcut to install the app.
5. Double-click the Music Manager icon in the Applications folder.

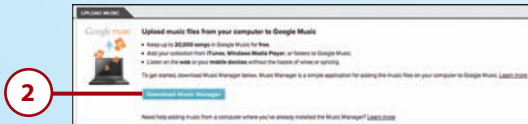


6. Skip to the "Configuring Music Manager" section later in the chapter to complete the installation.

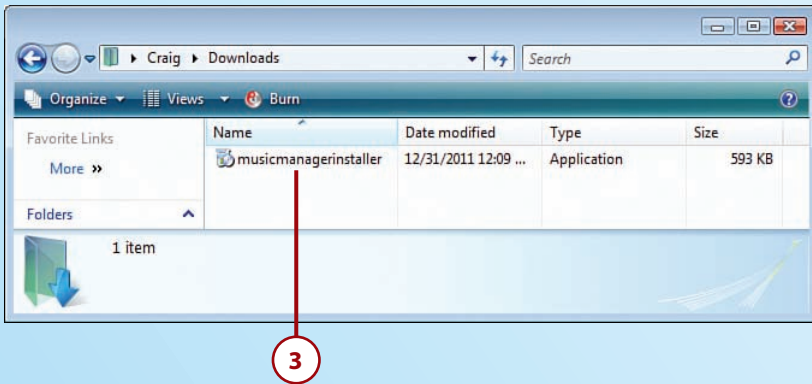
## Installing Google Music Manager (Windows)

Don't install Google Music Manager unless you plan to upload files from your computer to the Google Music cloud.

1. Visit [https://music.google.com/music/listen#manager\\_pl](https://music.google.com/music/listen#manager_pl) from your desktop web browser and log in to your Google account if prompted.
2. Click to download Music Manager.



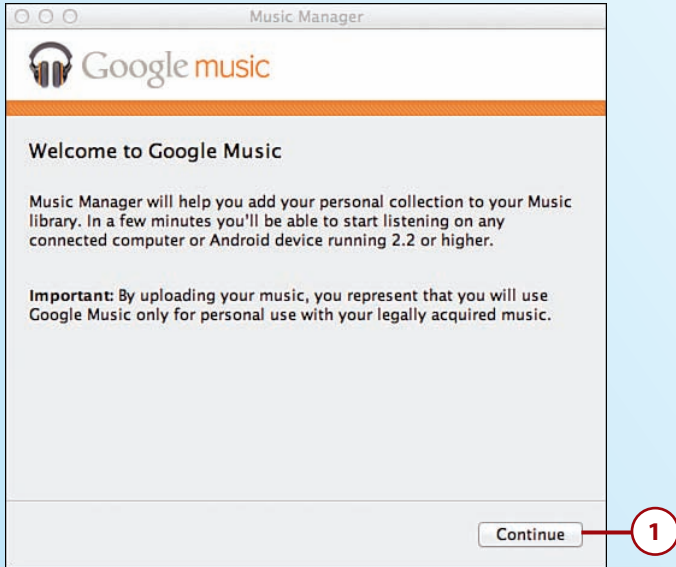
3. Double-click the app in your Downloads folder.



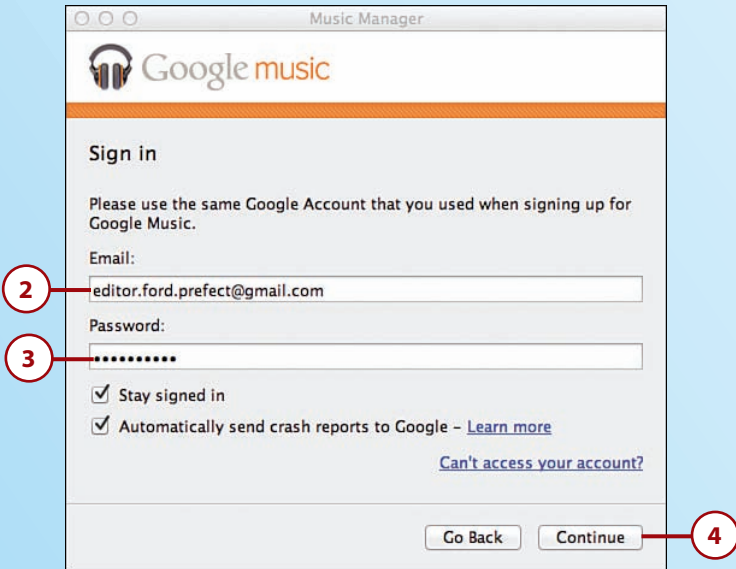
4. Skip to the "Configuring Music Manager" section later in the chapter to complete the installation.

## Configuring Music Manager (Windows and Apple Mac)

1. Click Continue.

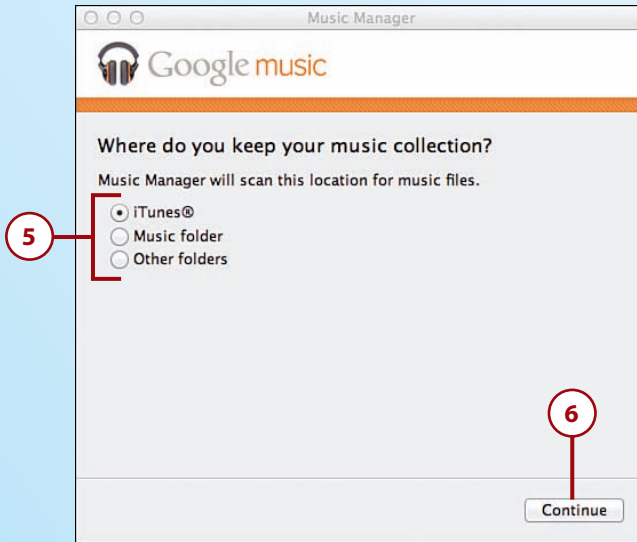


2. Enter your Google (Gmail) email address.

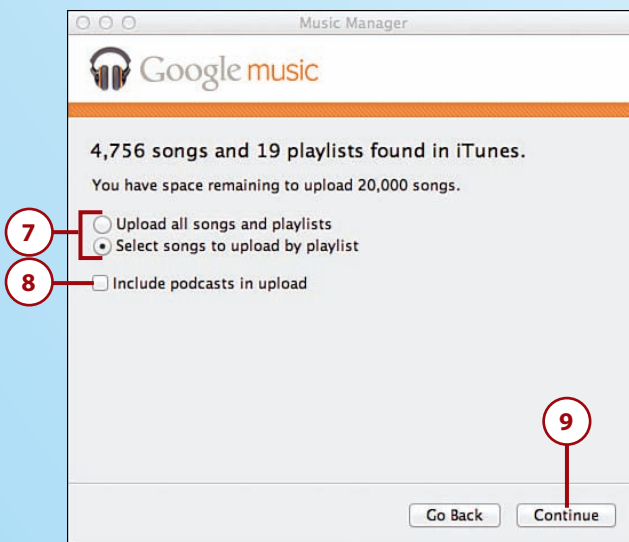


3. Enter your Google (Gmail) password.
4. Click Continue.

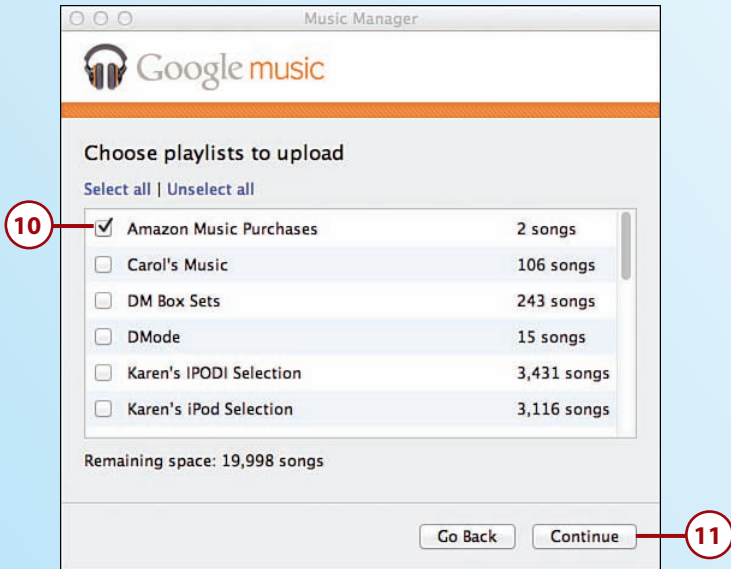
5. Choose where you keep your music.
6. Click Continue.



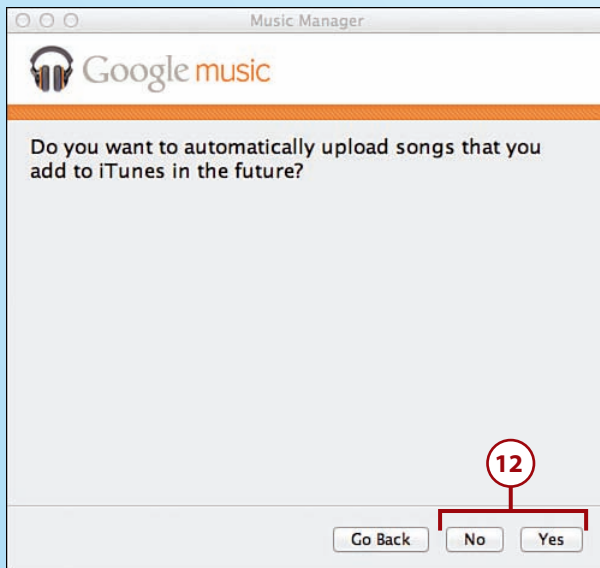
7. Choose whether to upload all of your music or just some of your playlists. Remember that you can only upload 20,000 songs for free. Skip to step 12 if you choose to upload all music.
8. Check if you want to also upload podcasts.
9. Click Continue.



10. Select one or more playlists of music.
11. Click Continue.

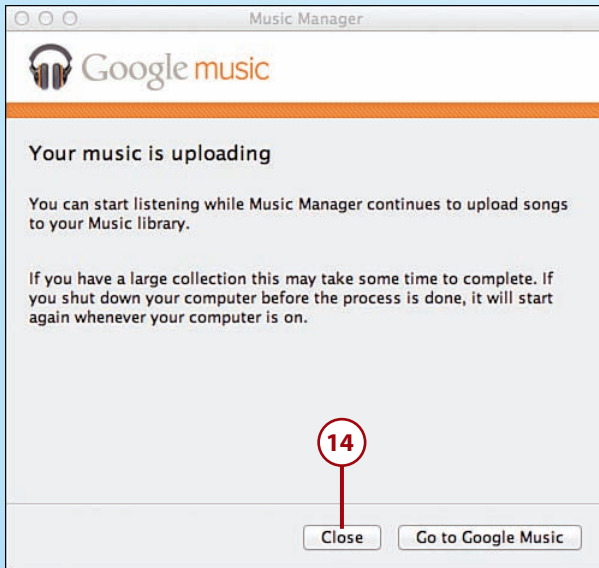
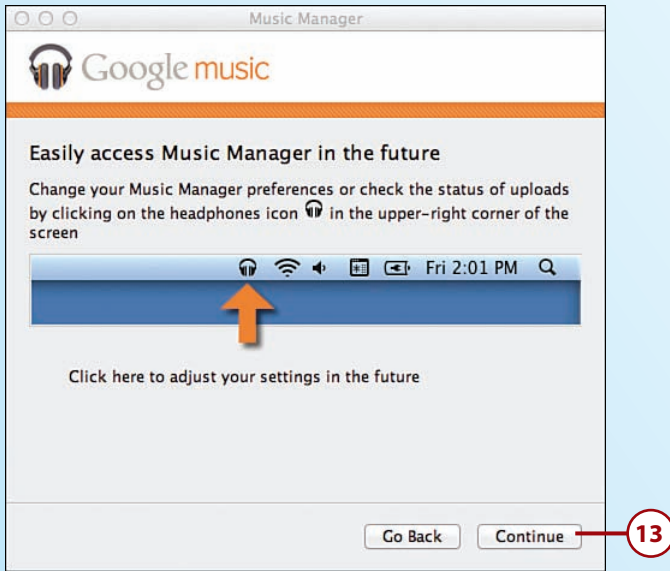


12. Choose whether you want to automatically upload any new music that is added to your computer.





13. Click Continue.



14. Click Close.

Face recognition



In this chapter, you learn how to take pictures with your Galaxy Nexus, how to store them, and how to share them with friends. Topics include the following:

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- Using the camera
- Taking panoramic pictures
- Sharing pictures
- Synchronizing pictures
- Viewing pictures

# 9

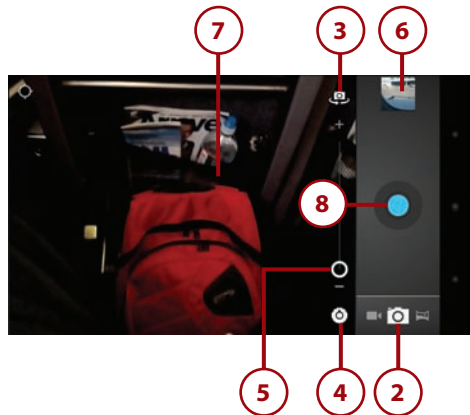
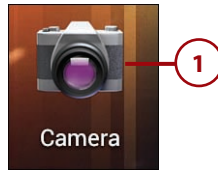
## Taking, Storing, and Viewing Pictures

Your Galaxy Nexus has a decent 5-megapixel camera with mechanical auto-focus. This means it can take really good pictures. After you take those great pictures, you can share them with friends. You can also synchronize the pictures directly with your computer or use Google Photos in the cloud.

### Using the Camera

Let's start by looking at the Camera application itself before we discuss sharing pictures with friends or synchronizing them with your computer.

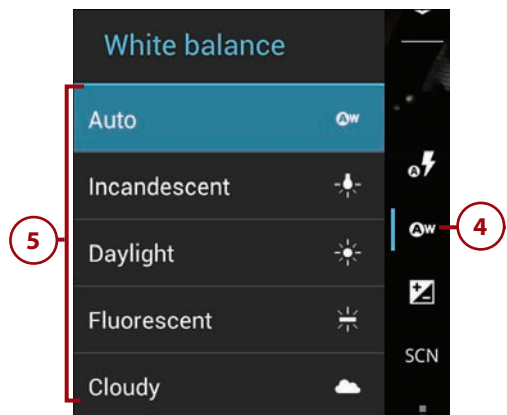
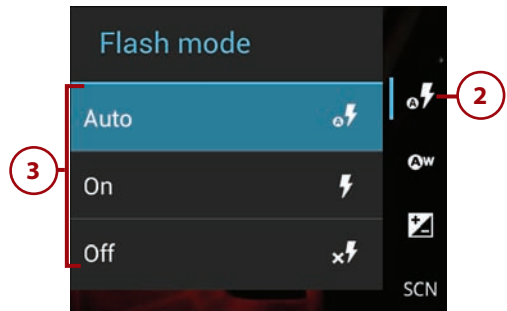
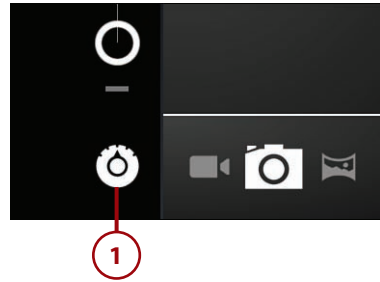
1. Touch to launch the Camera.
2. Touch to change the camera mode between still camera, panoramic camera, and video camera
3. Touch to switch between the front-facing camera and the rear-facing camera.
4. Touch to change the camera settings. (See the next section for more information about the camera settings.)
5. Slide up and down to zoom in and out.
6. Touch to review pictures in the Gallery application. See more about reviewing, sharing, and editing pictures in the Gallery application for your Galaxy Nexus later in this chapter.
7. Touch anywhere in the frame to make the camera focus specifically in the area. The focus box turns green if it's successful and red if it cannot focus.
8. Touch to take a picture.



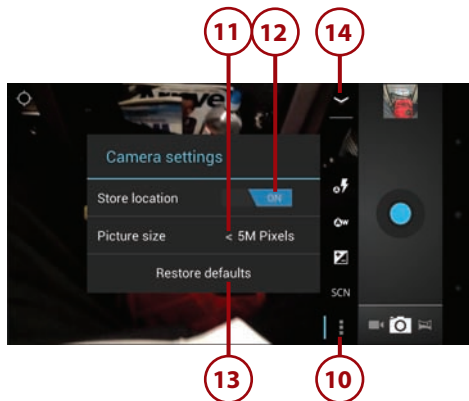
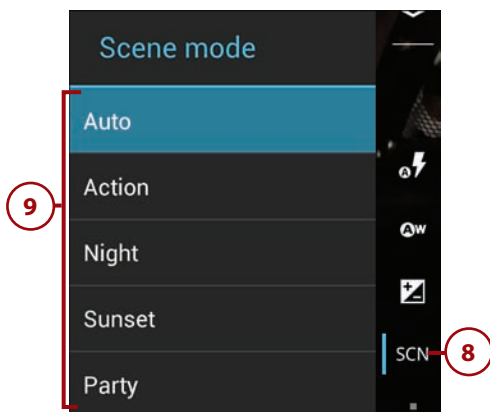
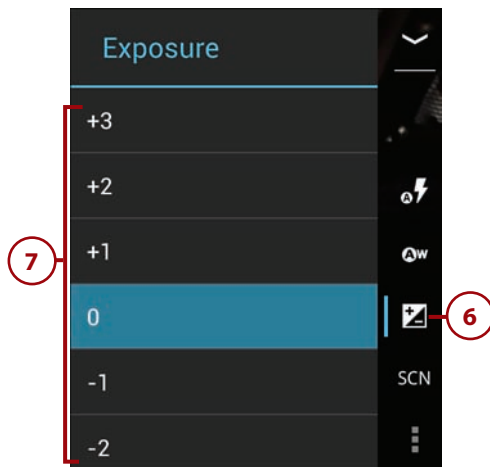
## Camera Settings

Using camera settings you can change things such as the resolution of each picture, picture review time, and more.

1. Touch to reveal the camera settings.
2. Touch to set the camera flash mode. The camera flash mode setting is only visible when you have the rear-facing camera selected.
3. Select either Auto (which lets the camera decide when to fire the flash), On (which means the flash is always used), or Off (when means the flash is never used).
4. Touch to set the White Balance
5. Select either Auto (which lets the camera decide on the White Balance setting) or choose specific lighting conditions.



6. Touch to change the exposure setting, which enables you to force the camera to either underexpose or overexpose a picture.
7. Choose positive numbers to overexpose the picture (keep the shutter open longer) or negative numbers to underexpose the picture (keep the shutter open for a shorter period).
8. Touch to change the scene mode. Changing the scene can help the camera adjust itself to the type of scenery and type of picture being taken.
9. Choose a scene like Action or Night, or leave the mode on Auto to let the camera decide.
10. Touch the Menu button to see more settings.
11. Touch the arrows to adjust the resolution of the picture. The highest is 5 megapixels for the rear-facing camera and 1.3 megapixels for the front-facing camera.
12. Touch to enable or disable storing your geographic location in the picture or video.
13. Touch to enable or disable storing your geographic location in the picture or video.
14. Touch to close the camera settings.



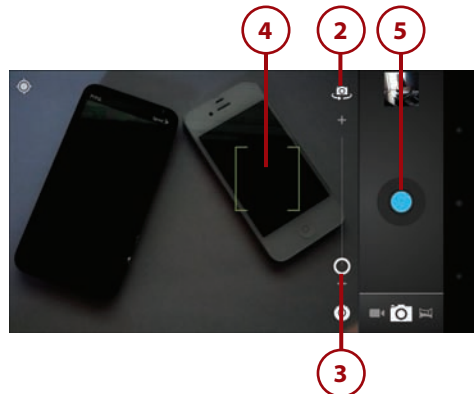
## Why Change the Image Resolution?

Step 11 describes how you can change the resolution of images captured by the camera. As a rule of thumb, you always want to capture images at the highest resolution possible. This is because you want to capture the moment in the best clarity you can, even if you later edit a copy of the image to make it smaller. One reason you might want to lower the resolution of the captured images is to send those specific images to people using text messaging. Chapter 7, “Text and Multimedia Messaging,” explains that the messaging app does not automatically reduce the size of images you want to send in the same way that many other phones do. This means that you have to plan ahead and decide what images you want to send via text messaging, and reduce the resolution of these images.

## Taking Regular Pictures

Now that you have the settings the way you want them, take a few pictures. You can jump straight to step 5 and take the picture, but you might want to first set up your shot. Remember to always take pictures in landscape mode for the best results.

1. Touch the Camera icon.
2. Touch to switch between the front-facing or rear-facing camera.
3. Slide up and down to zoom in and zoom out.
4. Touch the area of the frame you want to focus on specifically. When you release your finger, the camera indicates a green focus box if it can successfully focus or a red focus box if it cannot.
5. Touch to take the picture.



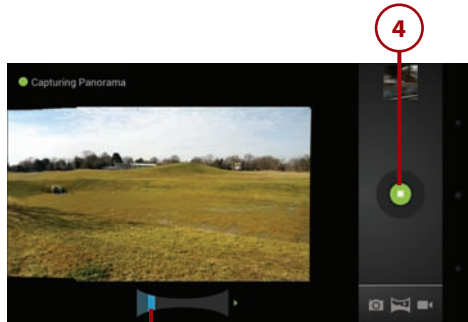
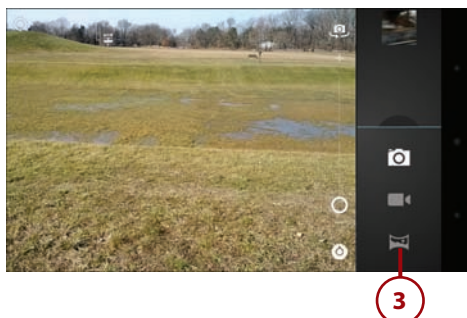
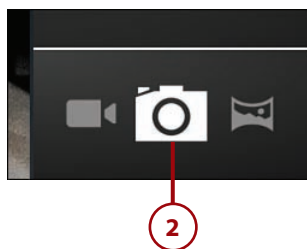
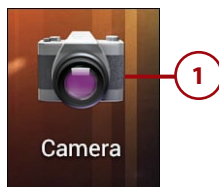
## Focus on Parts of a Picture

With the Galaxy Nexus, you can actually focus on a certain part of a picture. By touching the part of the picture you want in focus, you see that the rest of the picture goes out of focus. Using this trick enables you to take some amazing pictures.

## Taking Panoramic Pictures

Your Galaxy Nexus can take panoramic pictures. Panoramic pictures are achieved by taking multiple pictures from left to right or right to left, and stitching them together in one long picture. Luckily your Galaxy Nexus does all that work for you.

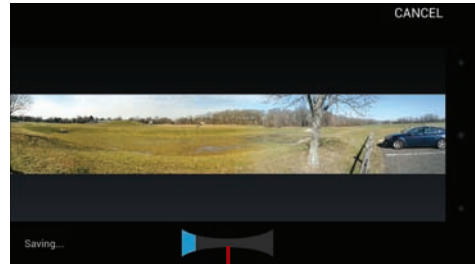
1. Touch the Camera icon.
2. Touch to change the camera mode.
3. Touch to select Panoramic.
4. Touch to start the panorama.
5. Slowly rotate your body from left to right or right to left to capture the panorama. Use the indicator at the bottom of the screen to track your progress.



Indicates your progress



- When you have rotated all the way, the camera automatically stitches the pictures together into a panorama and saves it.



**Indicates saving progress**

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## Can You Change the Length of the Panorama?

To create shorter panoramas, instead of rotating all the way from left to right or right to left until the indicator at the bottom of the screen reaches the opposite end, you can touch the green button to immediately stop the panorama process and save it as is. This enables you to create shorter panoramic pictures.

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## Moving Too Fast

When you take Panoramic pictures, you have to rotate slowly. If you start moving too fast, the camera indicates this to you by changing the progress indicator to red and putting a red border around the picture. Slow down when this happens; otherwise the panorama will not look good.



**Indicates you are moving too fast**

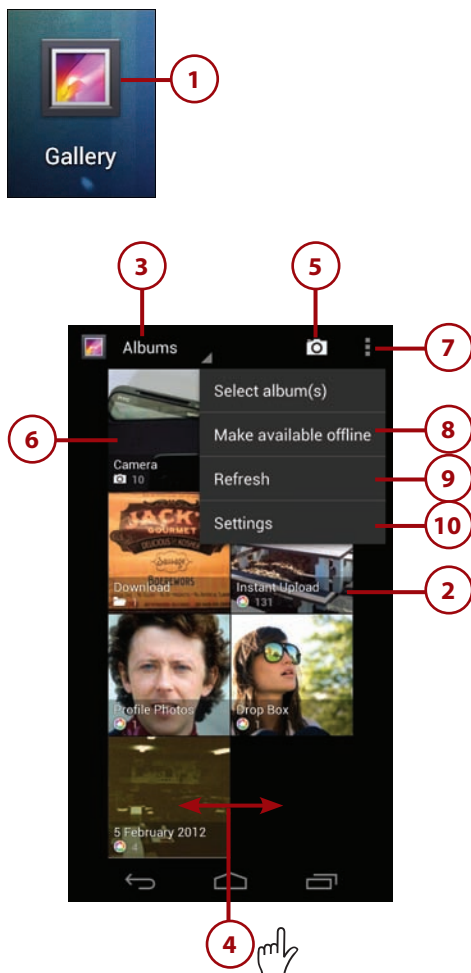
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## Viewing and Managing Your Photos

No matter if you have snapped pictures using your Galaxy Nexus or have synchronized photos from a computer, you can use the Gallery application to manage, edit, and share your photos.

### Navigating the Gallery

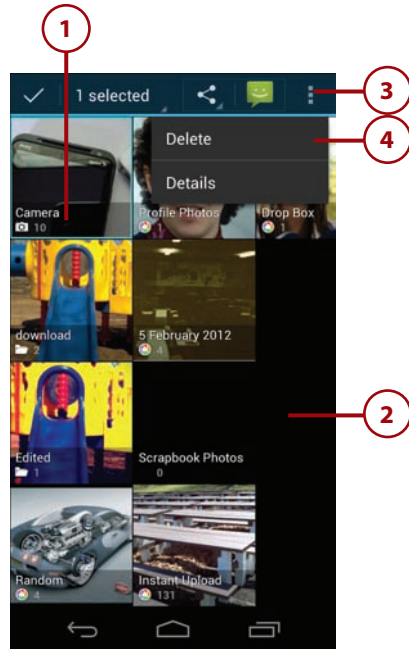
1. Touch to launch the Gallery application.
2. Touch a thumbnail photo to open an album.
3. Touch to reorder the way the photos are displayed. Instead of displaying them by the album they are in, you can display photos grouped by locations, times, people, and tags.
4. Swipe left and right to see all photo albums.
5. Touch to launch the Camera app.
6. Touch the photos labeled as Camera to see pictures taken on your Galaxy Nexus.
7. Touch the Menu button to see Gallery app actions.
8. Touch to choose which photos are available offline. See more about moving photos offline later in this chapter.
9. Touch to manually refresh the Gallery view. This is helpful to update the view after very recently uploading photos to Google from your computer.
10. Touch to change the Gallery app settings.



## Deleting Photo Albums

You can delete one or many photo albums, but only if they were created on your Galaxy Nexus. Albums created on your desktop computer that you can also see on your Galaxy Nexus cannot be deleted.

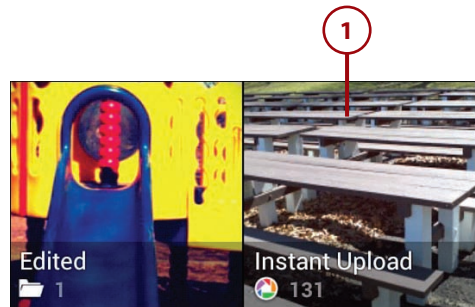
1. Touch and hold a photo album.
2. Touch to select additional albums if you want to.
3. Touch the Menu button.
4. Touch Delete.



## Open a Photo Album

After you open a photo album, you can manage the photos in it, edit them, and share them.

1. Touch an album to see all pictures in it.

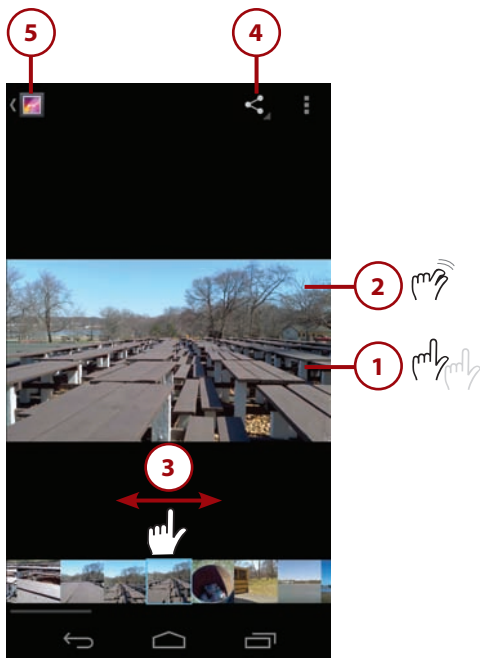


2. Touch to see a slide show of all the photos in the album.
3. Touch the Menu button and then Group By to group the photos by location, time, people, and tags.
4. Touch a photo to view it.
5. Touch to return to the main Gallery app screen.

## Reviewing and Sharing Pictures

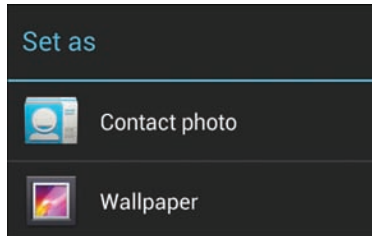
After you open a photo you can review it and share it with your friends.

1. Double-tap the picture to zoom in to the maximum zoom level. Double-tap again to zoom all the way back to 100%.
2. Use the pinch gesture to have a more controlled zoom in and zoom out.
3. Scroll left and right to see all the photos in the album.
4. Touch to share the picture with friends using Facebook, Twitter, Gmail, Email, Google+, Picasa (Google Photos), and Bluetooth.
5. Touch to return to the album view.



## Use Photo as Wallpaper or Contact Picture

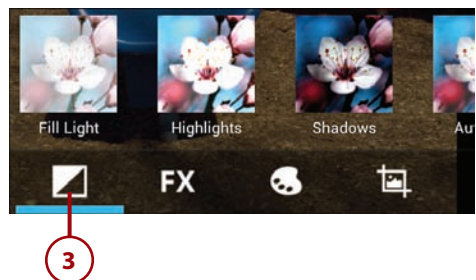
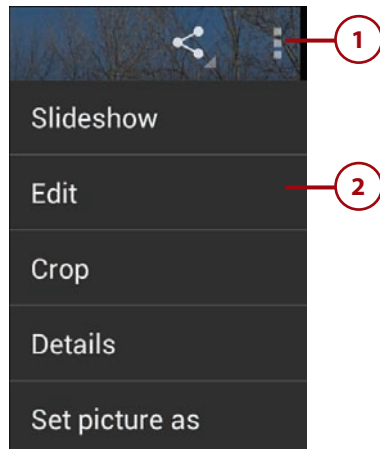
While viewing a photo, touch the Menu button and choose Set As. You can choose to use the photo as a contact picture for one of your contacts, or use it as the wallpaper on the Home screen.



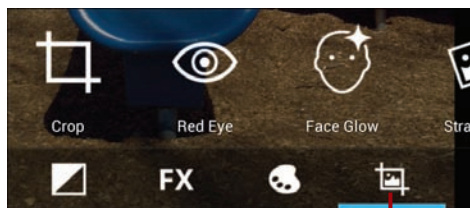
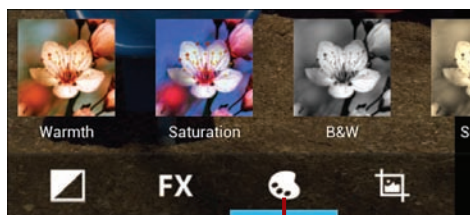
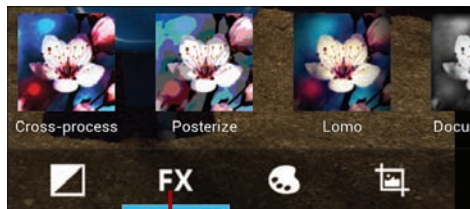
## Editing Pictures

You can edit a picture by adding special effects to it, enhancing it, or cropping it.

1. Touch the Menu button.
2. Touch Edit.
3. Touch to change the picture contrast.

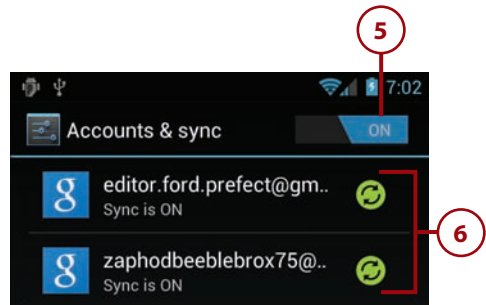
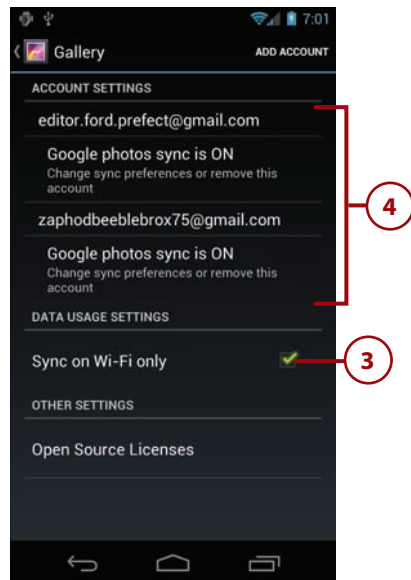
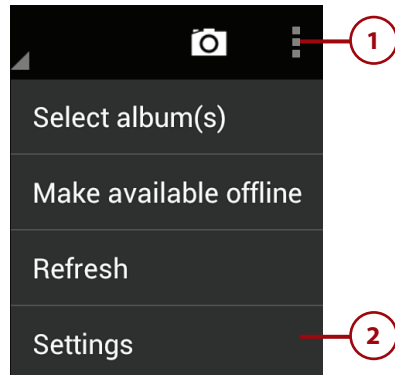


4. Touch to apply special effects to the photo, such as making it look like you used a fisheye lens when you took the picture, adding film graininess, and others .
5. Touch to change the color of the photo, including making it black and white and white.
6. Touch to crop the photo and do extra editing functions like flipping and rotating the photo.
7. Touch to undo changes you have made to a photo one-by-one. If you have made multiple changes, you can repeatedly touch the Undo icon until you have removed all changes.
8. Touch to redo a change that you have undone.
9. Touch to save your edited photo. Edited photos are placed in a new album called Edited so that the original photo remains intact.

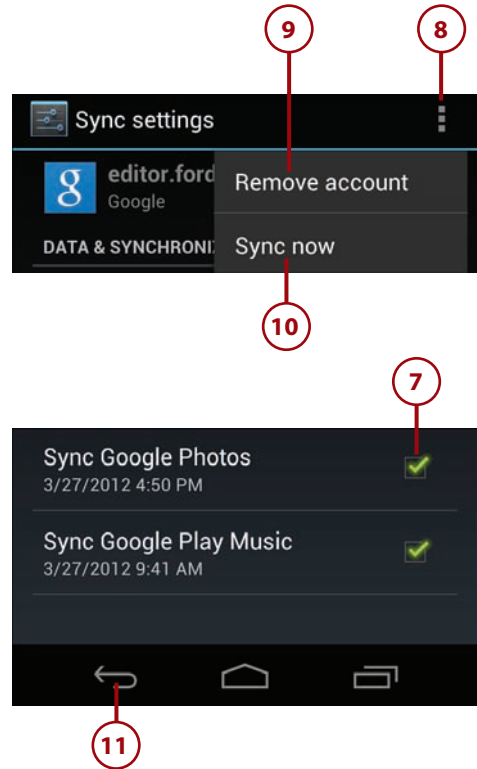


## Gallery Settings

1. Touch the Menu button.
2. Touch Settings.
3. Touch to enable or disable synchronizing photos over Wi-Fi only. If you uncheck this box, photo synchronization occurs even when you are using a cellular data network.
4. Touch a Google account to edit or remove it. After you touch an account, you see the next screen automatically.
5. Touch to enable or disable synchronization for all Google accounts.
6. Touch a Google account to edit or remove it.



7. Touch to enable or disable synchronizing Google Photos for this Google account.
8. Touch the Menu button to reveal account actions.
9. Touch to remove the Google account.
10. Touch to manually synchronize the account.
11. Touch to save your changes and return to the previous screen.



## Managing Photos with Your Computer

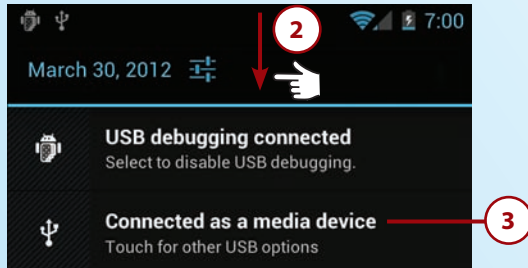
When you connect your Galaxy Nexus to a computer, you can move pictures back and forth manually. If you use an Apple Mac, you need some software called Android File Transfer. If you have not yet installed Android File Transfer, follow the installation steps in the “Prologue.”



## Manual Picture Management

This section covers moving pictures using the Android File Transfer app if you are using a Mac or the media transfer functionality if you are using Windows.

1. Plug your Galaxy Nexus into your computer using the supplied USB cable.
2. Pull down the System Bar to reveal the USB Connected notification.



3. Touch the USB Connected notification.



4. Touch to check the box next to Media device (MTP), if it is not already checked.

## Moving Pictures (Mac OSX)

After your Galaxy Nexus is connected to your Mac, the Android File Transfer app automatically launches so you can browse the files on your phone as well as move or copy files between your Mac and your Galaxy Nexus.

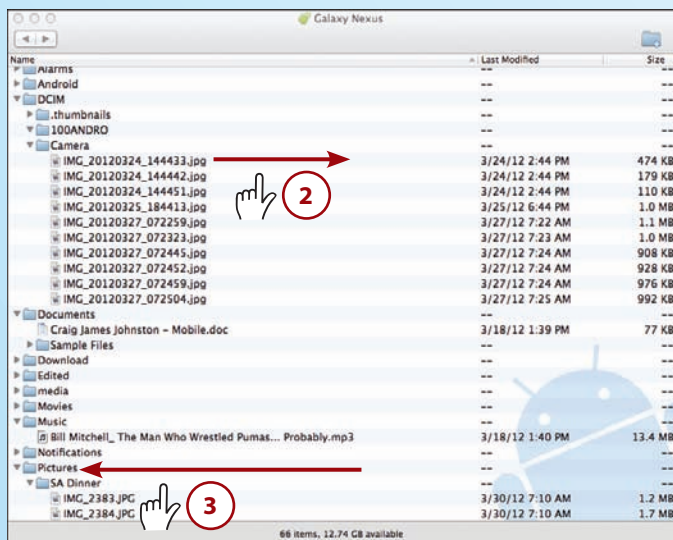
1. Browse to your Galaxy Nexus to locate the pictures.

---

### Where Are the Pictures?

Pictures taken with the Galaxy Nexus camera are in the folder DCIM\Camera. All other pictures are in a folder called Pictures. Photos that you have edited are in a folder called Edited.

---



2. Drag one or more pictures from your Galaxy Nexus to a folder on your Mac.
3. Drag a folder filled with pictures on your Mac to the folder called Pictures on your Galaxy Nexus to create a new Photo Album.
4. Drag one or more pictures from your Mac to the Pictures folder on your Galaxy Nexus.

## Moving Pictures (Windows)

After your Galaxy Nexus is connected to your Windows computer and mounted, you can browse the Galaxy Nexus like any drive on your computer.

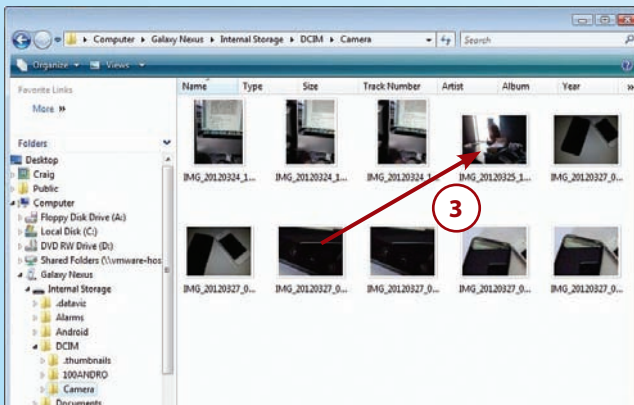
1. Click if you want to import the pictures automatically.



## Where Are the Pictures?

Pictures taken with the Galaxy Nexus camera are in the folder DCIM\Camera. All other pictures are in a folder called Pictures. Photos that you have edited are in a folder called Edited.

2. Click to open an Explorer view and see the files on your Galaxy Nexus.
3. Drag one or more pictures from your Galaxy Nexus to a folder on your PC.
4. Drag a folder filled with pictures on your PC to the folder called Pictures on your Galaxy Nexus to create a new Photo Album.
5. Drag one or more pictures from your PC to the Pictures folder on your Galaxy Nexus.



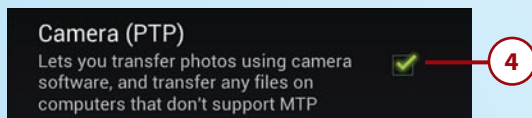
## Automatic Picture Management on a Mac

By setting your Galaxy Nexus to connect as a Camera, your Mac automatically opens iPhoto.

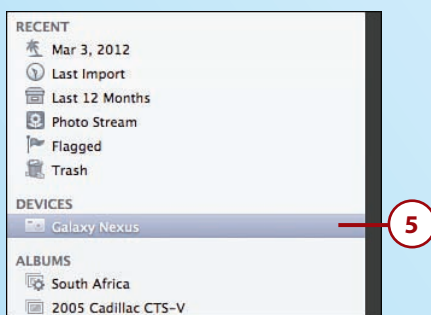
1. Plug your Galaxy Nexus into your computer using the supplied USB cable.
2. Pull down the System Bar to reveal the USB Connected notification.



3. Touch the USB Connected notification.



4. Touch to check the box next to Camera (PTP), if it is not already checked.

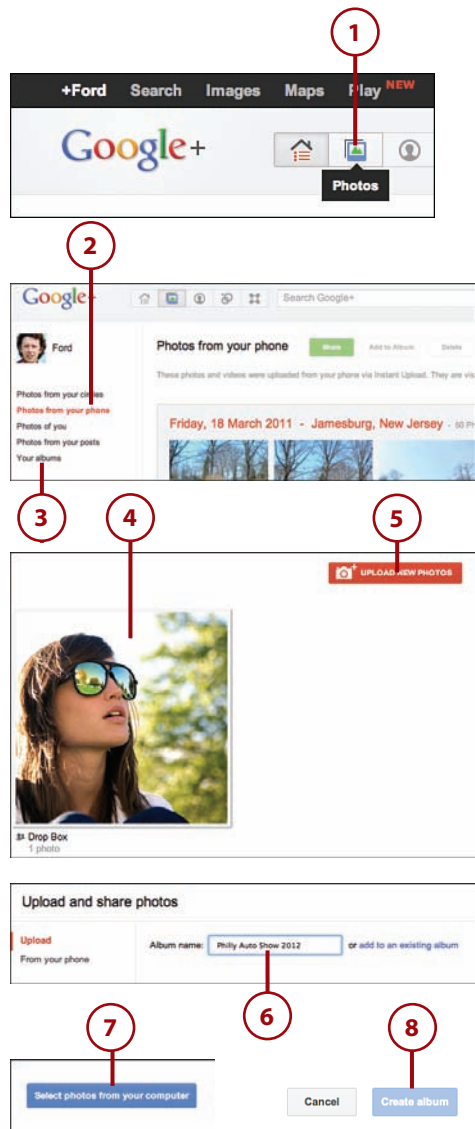


5. Your Galaxy Nexus appears in iPhoto under Devices so that you can import photos like you would with any other digital camera.

# Synchronizing Pictures Using Your Google Cloud

You can synchronize pictures to your Galaxy Nexus from your computer without even connecting your phone to your computer. Just use your Google account's built-in cloud service. All photo albums that you create in the cloud are automatically synchronized to your Galaxy Nexus.

1. Click Photos after you log in to Google on your desktop computer.
2. Click to see all the photos that have been automatically uploaded from your Galaxy Nexus to your Google Photos cloud account. When they display on the screen, you can download those pictures to your computer.
3. Click to manage your photo albums.
4. Click an existing photo album to open it, and add more photos to it from your computer.
5. Click to create a new photo album and add photos to it from your computer.
6. Type a name for your new photo album.
7. Click to browse your computer and choose photos to upload to the album.
8. Click to create the album.



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