

iPad Tips, Tricks, and Apps

iPad Button Basics:

Sleep/Wake button



When you lock an iPad, nothing happens if you touch the screen, but music continues playing and you can use the volume buttons.

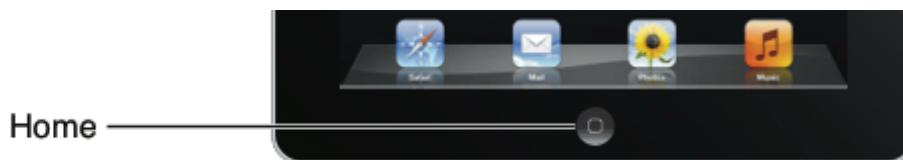
Lock iPad: Press the Sleep/Wake button.

Unlock iPad: Press the Sleep/Wake button.

Turn iPad off: Press the Home button or the Sleep/Wake button, then drag the slider.

Turn iPad on: Hold down the Sleep/Wake button for a few seconds until the red slider appears, then drag the onscreen slider. Hold down the Sleep/Wake button until the Apple logo appears. If you don't touch the screen for a minute or two, iPad locks automatically. You can change how long it takes the screen to lock, or set a passcode to unlock iPad.

Home button



The Home button lets you get back to the Home screen at any time. It also provides other convenient shortcuts.

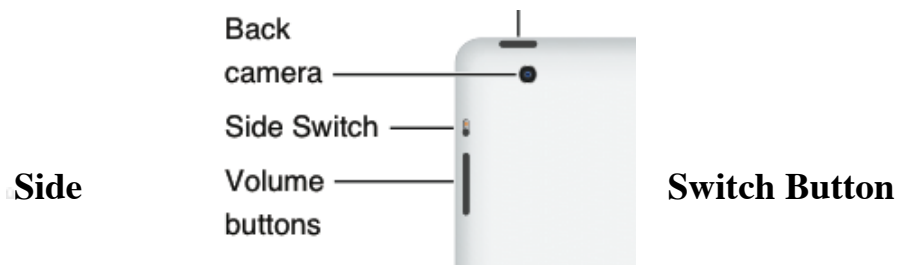
To display the multitasking bar to see recently used apps: double-click the Home Button or four-finger swipe up on any screen.

To close open apps: Swipe up on the app icon. The app is added to the recents list again, the next time you open it.

To display audio playback controls: Swipe up from the bottom of any screen.

To access audio playback controls when running an app: Swipe up from the bottom of the screen.

To adjust the screen's brightness: Swipe up from the bottom of any screen. Drag the brightness slider.



To lock the screen rotation: Slide the Side Switch down to mute notifications, alerts, and sound effects. This switch doesn't mute audio playback, such as music, podcasts, movies, and TV shows. In Settings, go to General > Use Side Switch to, then tap Lock Rotation.

To mute notifications, alerts, and sound effects: Slide the Side Switch. This switch doesn't mute audio playback, such as music, podcasts, movies, and TV shows.

Using multitasking gestures

You can use multitasking gestures on iPad to find, reveal the multitasking bar, or switch to another app.

To switch between open apps: Swipe left or right with four fingers.

Reveal the multitasking bar: Swipe up with four or five fingers.

To close out of any app: Four finger pinch

Turn multitasking gestures on or off: In Settings, go to > General > Multitasking Gestures, then tap On or Off.

To locate an app on your iPad: Pull down from any screen to reveal the Search bar.

Syncing with iTunes

Syncing with iTunes copies information from a computer to iPad, and vice versa. You can sync by connecting iPad to your computer using the Dock Connector to USB Cable, or you can set up iTunes to sync wirelessly using Wi-Fi. You can set iTunes to sync music, photos, video, podcasts, apps, and more. For detailed information about syncing iPad with a computer, open iTunes then select iTunes Help from the Help menu.

Set up wireless iTunes syncing: Connect your iPad to your computer using the Dock Connector to USB Cable. In iTunes, turn on “Sync over Wi-Fi connection” in the device’s Summary pane. When Wi-Fi syncing is turned on, iPad automatically syncs every day. iPad must be connected to a power source, both iPad and your computer must be on the same wireless network, and iTunes must be open on the computer.

Tips for syncing with iTunes

If you’re using iCloud to store your contacts, calendars, bookmarks, and notes, don’t also sync them to iPad using iTunes.

Purchases you make from the iTunes Store or the App Store on iPad are synced back to your iTunes library. You can also purchase or download content and apps from the iTunes Store on your computer, and then sync them to iPad.

Customizing the Home screen

You can customize the layout of app icons on the Home screen—including the icons in the Dock along the bottom of the screen. You can create additional Home screens and arrange your apps over multiple Home screens.

To rearrange icons: touch and hold any app on the Home screen until it jiggles. Arrange the apps by dragging them. Press the Home button to save your arrangement.

To move an icon to another screen: While arranging icons, drag an icon to the right edge of the screen until a new screen appears. You can return to a previous screen and drag more icons to the new screen.

To create additional Home screens: While arranging icons, swipe to the rightmost Home screen, then drag an icon to the right edge of the screen. You can create up to 15 Home screens.

The dots above the Dock show the number of screens you have, and which screen you're viewing.

To go to a different Home screen: Flick left or right, or tap to the left or right of the row of dots.

To go to the first Home screen Press the Home button.

To reset the Home screen to its original layout: In Settings, go to General > Reset, then tap Reset Home Screen Layout. Resetting the Home screen removes any folders you've created and applies the default wallpaper to your Home screen.

Organizing with folders

You can use folders to organize icons on the Home screen. You can put up to 135 apps in a folder. iPad automatically names a folder when you create it, based on the icons you use to create the folder, but you can change the name. Rearrange folders by dragging them on the Home screen or by moving them to a new Home screen or to the Dock.

To create a folder: Touch and hold an icon until the Home screen icons begin to jiggle, then drag the icon onto another icon. iPad creates a new folder that includes the two icons, and shows the folder's name. You can tap the name field to enter a different name.

To add an icon to a folder: When the icons are jigglings, drag the icon onto the folder.

To remove an icon from a folder: While arranging icons, tap to open the folder, then drag the icon out of the folder.

To open a folder: Tap the folder. You can then tap an app icon to open that app.

To close a folder: Tap outside the folder, or press the Home button.

To delete a folder: Remove all icons from the folder. The folder is deleted automatically when empty.

To rename a folder: While arranging icons, tap to open the folder, then tap the name at the top and use the keyboard to enter a new name.

Changing the wallpaper

You can choose the images you want to use as wallpaper for your Lock screen and your Home screen. Choose an image that came with iPad or a photo from your Camera Roll.

1. In Settings, go to Brightness & Wallpaper, tap the image of the Lock and Home screens, then tap Wallpaper or Saved Photos.

2. Tap to choose an image or photo. If you choose a photo, drag or pinch it to position or resize it, until it looks the way you want. Tap Set Lock Screen, Set Home Screen, or Set Both.

Editing text

To position the insertion point: Touch and hold to bring up the magnifying glass, then drag to position the insertion point.

To Select text: Tap the insertion point to display the selection buttons. Tap Select to select the adjacent word, or tap Select All to select all text. You can also double-tap a word to select it. Drag the grab points to select more or less text. In read-only documents, such as webpages, or messages you receive, touch and hold to select a word.

To cut or copy text: Select text, then tap Cut or Copy.

To Paste text: Tap the insertion point, then tap Paste to insert the last text that you cut or copied. Or, select text, then tap Paste to replace the text.

To undo the last edit: Shake iPad.

Speed up text entry with these keyboard tricks

Skip the period: When you get to the end of a sentence, press the spacebar twice to insert a period and a single space.

Faster apostrophes: Instead of switching to the number-punctuation keyboard, just swipe up on the comma key to insert an apostrophe.

Faster quotes: Swiping up on the period/question mark key inserts double quotes.

Simple insertion of special keys: Press and hold various other letters on the keyboard to access such characters as the French soft c (as in "garçon"), the Spanish tilde n (as in "mañana"), and the umlaut i (as in "naïve").


Broaden your punctuation horizons: You'll find a wider selection of punctuation marks by using the same technique on the number-punctuation keyboard. For example, insert an upside-down exclamation or question mark by swiping up (or pressing and holding) those respective keys. Add ellipses by swiping up on the period key (only in the number-punctuation layout). Insert various monetary symbols by pressing and holding the dollar sign, or swipe up on the zero key to add a degree symbol. Perhaps my favorite of these shortcuts is the ability to add an em-dash by swiping up on the hyphen key.

Activate--or disable--Caps lock: Tap either Shift key twice to type in all caps. If you want to avoid accidentally switching to all-caps mode, deactivate the feature by opening Settings, choosing Keyboard in the General category, and switching Enable Caps Lock to OFF.

Other options on this screen let you disable (or enable) auto- capitalization, auto- correction, spell check, and the period shortcut. You can also choose from several dozen international keyboard layouts.

Using AirPlay to Broadcast your iPad screen


You can stream music, photos, and video wirelessly to an HDTV or speakers using AirPlay and Apple TV. Your iPad and the the Apple TV must be on the same Wi-Fi network.

To Stream content to an AirPlay-enabled device: Start the video, slideshow, or music, then tap  and choose the AirPlay device. Once streaming starts, you can exit the app that's playing the content.

To quickly access the AirPlay controls: Swipe up from the bottom of any screen or app.

To switch playback back to iPad: Tap  and choose iPad.

You can mirror the iPad screen (iPad 2 or later) on a TV with Apple TV. Everything on the iPad screen appears on the TV (Great for watching the New Patriots on NFL.com).

To mirror the iPad screen on a TV: Tap  at the left end of the multitasking bar, choose Apple TV, and tap the Mirroring button that appears. A blue bar appears at the top of the iPad screen when AirPlay mirroring is turned on.



Find My iPad



Find My iPad (download from the App Store) can help you locate a lost, stolen, or misplaced iPad using an iPhone, iPod touch, or another iPad. You can also use Find My iPad using a Mac or PC with a web browser signed in to www.icloud.com. Find My iPad uses Wi-Fi to locate your iPad. If Wi-Fi is turned off or if your iPad isn't connected to a Wi-Fi network, Find My iPad can't find it.

Viewing a Google Earth Tour

The new version of Google Earth for the iPad can read KMZ/KML tour files. Create the tour in Google Earth on your laptop or download a file from the Google Earth Gallery or a file you found through Google Advanced Search, and then save the file in Dropbox or email it to yourself. Switch to the iPad, find the file, and choose "Open in Google Earth."

Taking photos and videos

To take a photo: Make sure the Camera/Video switch is set to , then aim and tap . You can also take a photo by pressing the Volume Up button.

To record a video: Slide the Camera/Video switch to , then tap  to start or stop recording, or press the Volume Up button.

When you take a photo or start a video recording, iPad makes a shutter sound. You can control the volume with the Volume buttons or the Side Switch. A rectangle briefly appears where the camera is focused and setting the exposure. When you photograph people, iPad (3rd generation) uses face detection to automatically focus on and balance the exposure across up to 10 faces. A rectangle appears over each detected face.

To zoom in or out Pinch the screen (back camera, in camera mode only).

To turn on the grid: Tap Options.

To set the exposure Tap the person or object on the screen.

To lock the exposure Touch and hold the screen until the rectangle pulses. Lock appears on the screen, and the exposure remains locked until you tap the screen again.

To Trim a video: While viewing a video, tap the screen to display the controls. Drag either end of the frame viewer at the top of the video, then tap Trim. If you choose Trim Original, the trimmed frames are deleted from the original video. If you choose “Save as New Clip,” a new video clip is saved in your Camera Roll album, leaving the original video unchanged.

To take a screen snapshot: Press and release the Sleep/Wake button and the Home button at the same time. The screenshot is added to your Camera Roll album.

Restarting and resetting iPad

If something isn't working right, try restarting iPad, forcing an app to close, or resetting iPad. If you can't turn off iPad or if the problem continues, you may need to reset iPad.

To restart iPad: Hold down the Sleep/Wake button until the red slider appears. Slide your finger across the slider to turn off iPad. To turn iPad back on, hold down the Sleep/Wake until the Apple logo appears.

To Force an app to close: Hold down the Sleep/Wake button on top of iPad for a few seconds until a red slider appears, then hold down the Home button until the app closes.

To Reset iPad: Hold down the Sleep/Wake button and the Home button at the same time for at least ten seconds, until the Apple logo appears.

iPad Apps:

My Story gives children a way to share stories by creating a recorded storybook on the iPad. Draw, write, and record your stories with an easy-to-use interface for all ages.

PuppetPal and PuppetPal HD: Perfect for digital storytelling projects, PuppetPal allows the student to choose characters (including photos of themselves) and backgrounds, drag them onto a stage, and add animations and voice recordings. Create your own unique shows with animation and audio in real time. Export the movie and upload to a YouTube channel to share the video with the students in the class. This is a free App but you can buy the director's pass for \$2.99 and receive all content.

The Fantastic Flying Books of Mr. Morris Lessmore has been regarded by many as the most creative use of the iPad. Morris Lessmore hit the number one spot on Apple's iPad app chart, becoming not just the bestselling book but the bestselling App of any kind. It has been called "the best," "visually stunning," and "beautiful" in a NY Times review and "the most stunning iPad app so far" according to MSNBC. The Times UK predicted that "The Fantastic Flying Books of Mr. Morris Lessmore will be regarded as one of the most influential titles of the early 21st century." It is a children's story inspired by Hurricane Katrina, Buster Keaton, The Wizard of Oz, and a love for books. The text can be changed to French or Spanish.

Explain Everything is an easy-to-use App that lets you annotate, animate, and narrate explanations and presentations. Create interactive lessons, activities, assessments, and tutorials with Explain Everything. You can even use Explain Everything as an interactive whiteboard. Explain Everything will record on-screen drawing, annotation, object movement and captures audio via the iPad microphone. You can import photos, PDF, PPT, and Keynote files and then export the final product as as a movie file to share.

VoiceThread: Now you can use, create, and share your VoiceThreads directly on the iPad. Create conversations with your students around documents, snapshots, diagrams, and videos. You can talk, type, and draw directly on the screen. You can share your VoiceThread with your students and they can join the discussion from their iPhone, iPad, iPod touch, Mac or PC. Add images from your iPad camera or photo library, flip through pages and annotate them while you narrate, and then simply share with your students.

Skitch: Annotate, edit, crop and share images and screen captures. Skitch is great for the flipped classroom, creating tutorials and highlighting specific aspects of an image. It works great with Evernote.

Flipboard is a free App that was named Apple's iPad App of the Year and one of TIME's top 50 innovations of 2010. Flipboard is a fast, and visually beautiful way to flip through news, photos, videos, from many news sites, as well as content from your Google Reader, Facebook, Twitter, and Flickr accounts. View your media in a magazine layout that is easy to scan. You can subscribe to popular publications like National Geographic, The New Yorker, Wired, and Rolling Stone, or customize your Flipboard with sections created from your favorite news, people, blogs, and topics.

The Waste Land App brings alive the most revolutionary poem of the last hundred years with a 21st century tool displaying a wealth of interactive features that illuminate T. S. Eliot's greatest work. This digital edition respects the integrity of the original yet offers spectacular new ways to explore the significance and influence of the poem. Watch and listen to performances and readings of the entire poem, synchronized to the text. You can even listen to an original recording by T. S. Eliot himself. Understand the poem's many references and allusions with interactive notes and examine original manuscript pages to see how the poem took shape. This iPad app carries forward Eliot's vision and vividly demonstrates how literature can be illuminated by the new digital medium.

7 Billion: How your world will change coincides with the arrival of the the human population reaching 7 billion people. The app explores the challenges of a growing human population in a world of limited resources and explains the demographic trends that got us here today and how it will impact us tomorrow with informative videos, interactive maps, in-depth articles, and stunning photography.

Touch Physics HD, an iPad game designed for both children and adults, young scientists and AP Physics students, takes on the world of physics Draw shapes with crayons in order to complete each level with the goal being to move a wheel to a target space. You achieve this goal by creating shapes that interact with the wheel.

MathBoard is an app for teaching addition, subtraction, multiplication and division. Customizing the problems will make MathBoard appropriate for all ages from kindergarten, with simple addition and subtraction problems, to elementary school, with multiplication and division. You can control the range of numbers and the amount of questions. You can even assign a time limit per quiz. Students have a workspace to complete and show their work and then answer the multiple choice questions or see step-by-step problem solving to help them generate the correct answers.

TouchCast, a video creation tool, lets students and teachers create and watch videos that are layered with live Web pages, YouTube clips, Twitter streams, and google maps that viewers can expand, manipulate and turn on and off. Create a newscast with picture-in-picture for the flipped classroom and tutorials. This app is free and fantastic.

Art Set allows everyone to create original art with a variety of virtual "papers," paints, crayons, pens, pencils, pastels, markers, and texturing and blending tools. Additionally, Art Set allows the artist to paint over photos stored on the iPad. It is fun even for the non-artist. This one is good for younger artists.

The iTunes U app gives you access to complete courses as well as the world's largest digital catalog of free education content. Take free courses created by instructors from leading universities and other schools. See all of the assignments and updates from the instructor in one place, and check off assignments as you complete them. Take notes and highlight text in iBooks and see them consolidated for easy reviewing in the iTunes U app. Access course materials, including audio, video, books, documents & presentations, apps, and new iBooks textbooks for iPad.

iStopMotion allows the use to Enjoy the excitement of creating stop motion animations, also called claymation or stop action movies, as well as time lapse recordings. Use this app for digital storytelling to bring your characters to life frame by frame. Each movie can contain hundreds of frames. You can share the videos directly to YouTube or continue to edit in iMovie.

GoClass works very well in a 1:1 learning environment for all levels. With GoClass, you can create lessons and deliver them to your students. Include annotated images, sketches, text, and video in the lessons. Create class rosters so that you can keep track of the usage of the lessons by the students. Post questions and poll your students. Once the students responses are gathered, you can project the responses without showing student's names. The polling becomes a terrific way to prompt discussions about the questions and materials that you have presented to your students.

TinyTap is designed for young students but can be used by older students and teachers of older students, as well. Create an online quiz, story or interactive book with voice recordings and music. Add photos, take a picture, record a narration. TinyTap can be used for world language classes, math, art, and much more. This is a prime example of using a basic app in a number of creative ways.

Rover is a web browser app that works well with Google Docs and with Flash-based websites. It provides links to educational resources but it can just be used as a web browser that can, on occasion, work better than Safari.

ShowMe allows young students and older students the ability to create, annotate and record over one slide. Show Me can be used for a digital storytelling project, for creating a tutorial for the flipped classroom or for an animated demonstration or explanation of a topic. Slides are saved to their website, allowing for easy access. **Screenchomp** and **Educreations** are similar apps. in ShowMe, the file is no longer editable once you have recorded your narration.

Comic Life, an iPad version of the Mac app, allows the student to use photos from the Camera Roll or take photos to place in a wide variety of comic strip templates. Students can add text

bubbles, format fonts, and play with a variety of styles. Final products can be sent to the the Photo Library or shared via email.

Toontastic is another comic strip creator, but this one guides the student through the process with the setup, conflict, challenge, climax, and resolution of the story arc. Students can draw their own background or use one of the templates. Then they add characters or draw their own. They can then animate each scene, record a narration, and add music, making this site useful for both young learners and learners of world languages.

Sonicpics allows you to add pictures or take a picture and then record a narration of your slideshow, great for explaining a lab experiment, documenting a field trip, analyzing plant growth, or creating a tone poem.

Composer is another sophisticated book creation app, allowing you and your students to create interactive, animated ebooks. You can add sound, movies, special effects, and animations. Composer has a steeper learning curve than other apps, but the product can be quite polished.

ifPoems provides audio narration of over 200 well-known poems, but the coolest feature is the ability to record one's own oral interpretation of the poems.

Inspire Pro, ArtRage, procreate, Brushes are all painting apps, each one with a different style and focus. Art teachers should experiment with them all.

SketchExplorer, based on Geometer's Sketchpad, provides the ability to drag, manipulate and animate mathematics. This app does not allow for the creation of these animations, but it does provide access to a gallery of animations to explore. This can be used for all grade levels of math exploration.

Evernote is a note-taking and voice recording app that synchs with the free app that can be downloaded to an iPad, iPhone, Mac, or PC. Evernote works really well as a digital portfolio for all age students and for an assessment portfolio for teachers to share with parents and to aid in grading and commenting on student work. Evernote also synchs with Skitch, adding to its versatility and utility.

Showbie allows a teacher to assign, collect, and review student work because it is a cloud storage solution designed to enable students to drop work from apps right into an online assignment folder. Create an account on the Showbie website and then set up your class. Through the website or app, students can share files quickly and easily, express their creativity through creating content in apps for assignments, and hand in their homework using their mobile device.

Creative Book Builder can create a multimedia book with videos, images, hyperlinks, music, multiple choice quizzes, and voice recording. CBB allows you and your students to record videos or insert one from YouTube. CBB can convert Google Drive documents into book chapters. Books are then easily exported to DropBox, Google Drive, and iBooks.

Leo's Pad, a great educational app, is aimed at pre-schoolers and early learners. Produced by Kidaptive-- a media and technology company dedicated to creative storytelling and developed in collaboration with Stanford University--the app offers several interactive adventures. Children design and build a rocket with Leo(nardo da Vinci), Gally (Galileo Galilei), and Marie (Curie) by tracing and sorting rocket parts, mixing rocket fuel, and guiding the rocket through space. As a child completes activities, the app will measure the user's responses, automatically increasing or decreasing in difficulty to create the optimal learning level for each user.

iBrainstorm is a collaborative brainstorming application for the iPad and the iPhone. Record brainstorming sessions using a combination of free hand drawings and sticky notes placed on a canvas that can be shared with other users of the app. The combination of sticky notes and free hand drawing can appeal to different learning styles. While students can use the app on an individual basis for planning, projecting the app and seeing students collaborate can be a great educational tool. Free

Adobe Voice, a storytelling app, offers some interesting and educationally sound features. The app provides templates like Explain Something, Follow a Hero's Journey, Promote and Idea, or Tell What Happened to inspire reluctant storytellers. Those who want to jump right in can choose to make up their own. As with all other apps, this app allows the user to add text, images and narrations. The unique feature is a built-in library of over 25,000 photos and clip art, so students do not have to search the web to find appropriate images. Free

Knovio is a PowerPoint add-on app. Use the microphone and camera to add audio and video commentary and narration to PowerPoint presentations. Upload the presentation to Dropbox or Google Drive or email it and then open in Knovio. Commentary can be re-recorded. Presentations are stored at a Knovia account and then shared through a link which can be viewed on a browser on either an iPad or a laptop with no app needed for the viewing. Free

IFTT allows the creation of the recipe "If This, Then That" to automate your web activities. Channels are the basic building blocks of IFTTT. Each channel has its own Triggers and Actions. The "This" part of a Recipe is a Trigger; some example Triggers are "I'm tagged in a photo on Facebook" or "I checked in on Foursquare." The "That" part of a Recipe is an Action; some example Actions are "send me a text message" or "create a status message on Facebook." A Recipe might autosave all your Instagram photos into your Dropbox. It sounds complicated, but with a little practice, you can make your life on the internet more efficient.

StopMo Studio, easy-to-use but also quite powerful, creates stop motion animation videos. To get started, all you have to do is set up the scene and begin taking pictures. Then: Move, Stop, Picture, Move, Stop, Picture. Repeat until you have completed your entire film. You can rearrange, delete, or add shots along the way. Also, you can add music from iTunes or a recording to any or all of the four audio timelines. The Extras panel includes the ability to add photos, sound effects, titles, solid colors, and annotations. Cost is .99\$

Stick Around allows the user to create a variety of assessment puzzles, including venn diagrams, matching and sorting activities, and labeling. Add an image, create "stickers" that are text only, text and image, or image only and then drag the images to the correct locations to create an answer key. Use drawing tools or photos to create the background. Record audio instructions. A

terrific feature is the ability to Import screencasts from Explain Everything to use as instructions, and puzzles can be exported to Explain Everything to add recordings and annotations. Some suggested uses for this app from the website: place locations on a map, tag parts of the body, place items where they belong on a chart, complete a graphic organizer, annotate the water cycle, label people in a photo, diagram a sentence, associate powers with the branches of government, sequence events on a timeline, associate words and definitions, label the parts of a plant, put words in alphabetical order, fill in a Venn diagram, and match photos of animals to their habitats. One negative is that students must have the app to play the puzzles. The cost is \$2.99.

Notability, considered one of the best note taking apps, allows the user to markup PDFs (useful for grading essays), and now everything you type, write or add to a note is linked to an audio recording. Just tap play and watch your note unfold. You can jump to a specific point in the recording by tapping a word with the navigation tool. This visually rich presentation provides an interesting way to review notes or to create lessons or instructional material.

YAKit and **YAKit Kids** create talking images by adding an animated mouth, eyes, noses and more. Record a narration and play with the pitch of the voice. YAKit Kids limits the sharing environment. This is a great app for digital storytelling projects. Add a series of animated photos to create a video slideshow. Export to the camera roll and then edit in iMovie or add to a book creator app or to a screencasting app to jazz up a flipped classroom presentation. Free for both iPhone and iPad.

Subtext, also available at Subtext.com, is a collaborative reading app. After creating an account, the teacher searches for an eBook, web article, or PDF document to add to a group. The teacher then populates the reading with discussion and multiple choice questions for formative assessments. After joining the group, a student has the opportunity to discuss the reading with other students in the class. Another useful feature is the ability to add videos and images to help students visualize the text. FREE but some of the books do need to be purchased.

Literacy Leveler makes it easy to find books of an appropriate reading level. Scan a book's ISBN with the camera on an iPad or iPhone to see its Guided Reading Level, or you can search for a book by title, author, or level. You can then add the book to a personal library. The database focuses on grades K through 8.

Ken Burns App is essentially a curated mixtape of Ken Burns' films. Short clips from his documentaries are broken down into hour-long playlists and grouped by themes: Art, Hard Times, Innovation, Politics, Race, and War. Each playlist is comprised of 10 to 20 scenes that run under three minutes each. The Timeline view explores a chronological history of America through his films. The preview version of this app is free, but it features only the "Innovation" playlist. Accessing all the content costs \$9.99

News-O-Matic, a daily newspaper for young learners, goes beyond just the news by adding videos, images, maps, suggested activities, and a read-to-me option. Five new articles appear daily, but there is also an interactive history-based timeline, puzzles, games, and audio support for challenging vocabulary words. Free but annual subscriptions are recommended.

Swiftkey improves the typing experience on an iPad or iPhone (or Android phone) by suggesting word choices that are tailored to your writing style and by "next-word predictors." Swiftkey

connects to Evernote to significantly enhance note-taking. The more you use it, the better it becomes with more accurate next-word choices. SwiftKey supports typing in English, Spanish, French, German and Italian. Free

Popograph allows you to lift a part of a photograph to add a 3-D effect to that section. Then add filters, captions and text, shading and a variety of frames to create a unique work of art.

Stack the Countries is the newest app from the developers of Stack the States. Both apps present games for the study of landmarks, capitals, major cities, borders, etc. Stack the Countries can be played in English, French or Spanish. Student can play a variety of games and study with the supplied flashcards.

MusiXmatch (also available for iPhone, Android, or Mac) can identify millions of songs and obtain their lyrics. You can search lyrics based on a few words, watch music videos and concerts from YouTube, and find music titles, artists and discography information for songs. Free

Thinglink is both an app and a website that allows the user to add hot spots to any image. The hotspots can be links to web sites, youtube videos, and text annotations. The app adds the ability to record with the camera, so students can create their own video explanations about the image or use the camera to add their own pictures. Thinglink can be used in all grade levels and for all subjects.

Scanner Pro turns your iPad and iPhone into portable scanners, so you can scan receipts, whiteboards, paper notes, or any multipage document. Scanned documents can be emailed, uploaded to Dropbox, Google Drive and Evernote, or saved on the iPhone/iPad. The application incorporates special algorithms that remove shadows, make scans sharper, and correct perspective.

Inspiration, the old favorite, is now an iPad app. Use Inspiration Maps to brainstorm, plan, organize and build thinking skills. Turn a diagram into an outline that can then be exported to a writing app. App includes a searchable symbol library with over 1500 images, the ability to add images from the web or the iPad camera, dozens of templates including some in French and Spanish, the ability to add written or audio instructions, and the ability to attach audio to a symbol. The drag and drop of the iPad makes this version of Inspiration particularly user-friendly. The downside is the price \$9.99, but it can be purchased at a discount. Inspiration Maps Lite is free, so it serves as a good starting point.

Cloud Art creates word clouds by entering text into the app, pasting from a document, or entering the URL of a website. Customize the word cloud with a variety of color schemes, fonts, font layouts, and backgrounds. Tap on an individual word to make it larger or smaller. The finished product can be emailed or saved to the camera roll to be used in another app. Analyze a famous speech, a poem, a chapter from a textbook, or an article from the web by looking at words used and word frequency.

Chatterpix Kids, similar to YAKit, creates talking photos. Take a picture of an object, a photo, a living creature, or access the built-in gallery to create a talking image. Draw a line to create a mouth, record a narration, add special effects and props, and save your animated creation. This

app can be used both for recreation and for education. Another app, Chatterpix, allows uploads to social media. Free

Kodable offers a kid-friendly introduction to programming concepts and problem solving for children ages 5 and up. With a series of directional arrow commands, children lead fuzz balls through Kodable's 90 levels of increasing difficulty. The first 30 levels are free; each additional set of 30 levels are a \$1.99 add-on. Each level aims to teach children to think like a programmer to solve problems. As they navigate through the levels, children utilize functions, conditional statements, if/then statements and loops without even knowing it.

Futaba turns your iPad into a small smart table with this classroom game for up to four players. Futaba, a multiplayer game designed for K-6 classrooms, supports many types of learning activities. The app contains a number of learning sets, including sight words, subtraction, multiplication, telling the time, currency, countries and flags, but teachers can build their own game content to support any curriculum. Students match answers to text or image based questions and compete against up to 3 other students.

Nearpod allows teachers to create multimedia presentations and then share them with their students while controlling their students' activity on the iPad. Students submit responses on their iPads while teachers can monitor classroom activity and evaluate student understanding of the material. Teachers can push information, questions, websites, and activities to their students in real-time. Teachers download the teacher app, while students use the student app. Free and Premium versions available.

Playback allows the user to create screencasts for tutorials and the flipped classroom. Its distinction is the ability to use the iPad camera to add your face to your screencast videos. There are two modes, picture in picture and full-screen. Dropbox uploads are now fully integrated so files can be uploaded to Dropbox even if the Dropbox app is not installed. You can sketch and type on a virtual whiteboard or over your presentation slides. Playback will record your annotations along with audio commentary to produce a movie you can share. Import your slides in PDF format to playback then use the tools to help you explain your slides. The tools include handwriting, eraser, audio commentary, pan and zoom, laser pointer and typed text. Free

9Slides, a slideshow creator app, allows users to add video or audio commentary to a presentation slides directly on an iPad. Import PowerPoints, pdfs from SlideShare, Google Drive, or Dropbox, and record video within the presentation. The final product can be published online for students.

Felt Board, a storytelling and more app, allows the student or teacher to design scenes, dress up characters and create math and tangram puzzles. Add to characters by selecting hair and facial features. Choose from a wide variety of costumes, settings and props for digital storytelling, literacy with numbers and letters, and word recognition. Felt Board includes a gallery to save and edit Felt Board designs.

Story Wheel allows 1-4 players can create a story. Start by spinning the wheel to get a picture. Next, each student records her voice as she develops a story with that picture. Each player will build upon the story with a new picture. Creations can be shared online or emailed.

iPad Program Considerations

- **Revising the AUP:** Consider use of iTunes accounts and apps, camera and video regulations, game playing, video watching, audio recording of classes, peers, and teachers, jailbreaking, app installation, iCloud and backups, insurance, carrying and storing, charging, security, AppleTV and projecting iPads.
- **Deployment and Management:** app purchases and distribution, device ownership, apps ownership, iTunes accounts and students younger than 13, updates, maintenance, 1:1 vs. carts, appropriate ratio of iPads to students as suggested by grade level, time frame, best practices, identifying sound educational apps, strategies for classroom management, strategies for faculty evaluation of apps as an ongoing process, strength of network (particularly with use of Apple TV), iPad memory issues particularly with the advent of etextbooks, faculty professional development, keyboards and accessories, printing, strategies for app requests, evaluating etextbooks, use of iTunes U, workshops for parents.
- **Costs to consider:** iPad model, case, insurance, apps, accessories (including keyboard and stylus), infrastructure upgrade, Apple TVs and televisions, stipends to faculty for creating iPad rich courses and iPad rich textbooks and course content, extra chargers, charging stations, extra iPads as loaners, iPads for faculty, iTunes gift cards for faculty, HDMI projectors.
- **Kinds of Apps needed:** voice recording, PDF annotation, Whiteboard and Shared Whiteboard, Annotated drawings, Photo Editing, Video Editing, Stop Motion Videos, Presentation, Mindmapping, Note Taking, Essay Writing, Drill and Skill, Simulations, Screen Capture, Geography, animated textbooks and books, Storytelling and story creation, Painting, variety of browsers, Math and Science manipulatives, Book reading, Aggregators.
- **Starter List of Apps:** Garageband, iMovie, Keynote, Pages, Comic Life, Explain Everything, Educreations, Google Earth, PuppetPals, Kindle, iTunes U, Book Creator or My Story, Rover, Evernote, Skitch, Voicethread, Skype, iStop Motion, Notability, Touchcast, Tiny Tap, Adobe Voice.
- **Rethinking Curriculum:** differentiated learning, Multimedia creation, always-on access to web, always- on access to camera, video and voice recording, learning spaces shift away from labs, expertise shift towards students, strategizing essay writing, constructing alternate assessments, teacher and student-created textbooks, anthologies, class notes, lab reports, etc.

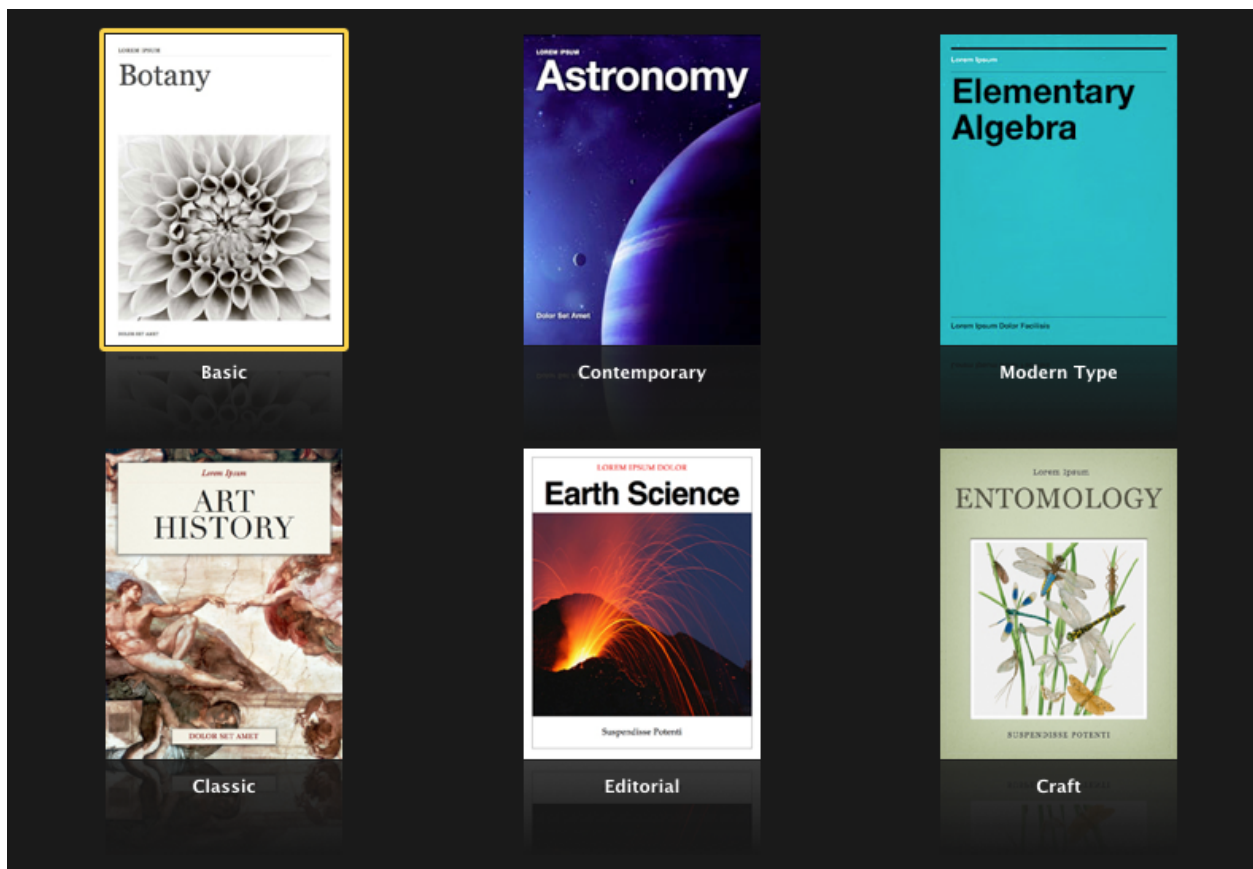
iBooks Author Tutorial

Creating your eBook

The bulk of your text should be created prior to using iBooks Author, which should be considered primarily a layout program and not a text editing program. You can, of course, add and edit titles and captions, and the text itself, but your life will be much easier if you do the writing in either MS Word or Pages. Organization is the key; put chapters in folders on your desktop, ditto with images and videos. Images in folders can be dragged easily to create a slideshow. Keynote presentations can be dragged into a widget, so download all Google Docs presentations and create as Keynotes, ditto for all your PowerPoint presentations.

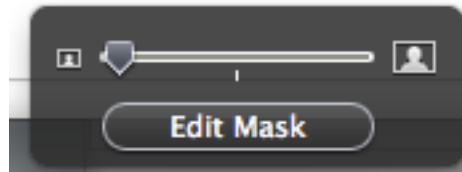
First, download iBooks Author from the Mac app store. This free download is not available for the PC, so some PC schools are purchasing a few Mac laptops or desktops to aid in the process of ebook creation. Students can construct their share of the book on a PC, and then all the pages can be merged in Word on a Mac and then imported in to iBooks Author.

Step One: Choose your template. Don't be concerned about the name or subject matter of each template; the text is entered as placeholders.



Step Two: Begin to customize the template by clicking on the on the options available on the left hand sidebar. First, enter your book title by double-clicking within the title place holder text box. You can format the text by using the usual text-editing toolbar that runs across the top.

Step Three: Change the book cover photo by dragging and dropping the desired image file onto the photo place holder. If the photo does not fit into the dedicated area, drag the slider in the

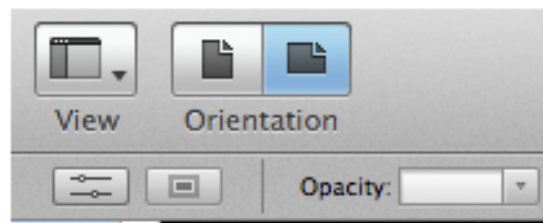


“Edit Mask” box until the image is resized to fit. If you would like an introductory video, then click on “Intro Media: and drag and drop your fit into the video place holder. Please note that videos must be in .m4v format. Adding video to your iBook is also really easy; however, you need to have the video in the right format. You can drag and drop your video into the iBook and then edit the videos size and location within the book. If you get an error when you try and drop the video into the book then that means the format is not correct. You can change the video to the right format by opening the video up in Quicktime and then exporting the video to a format that works on iPhones and iPads.

Step Four: Create your chapters. Delete the template chapters on the left toolbar, and Choose Insert > Chapter from Pages or Word document. Choose the document to import, and click Insert. The style sheet from your Pages or Word document is also imported. Choose the desired layout. Once you have your text in the template you can adjust the formatting, add hyperlinks, and much more. Instead of accessing the Insert Menu, you can simply drag a Pages or Word document into the Book pane from the Finder. If you are trying to produce something really simple with no chapters, set the first chapter as a preface by clicking the pop-up menu by the page thumbnail. Then your ebook won't start with Chapter 1 on the iPad.

Step Five: Edit your text.

- Make sure you have given each title a name so that it shows up correctly in the table of contents. You can do this by selecting the chapter on the left hand column. Right click where is says chapter to the right and then select rename. Rename the chapter to whatever you would like.
- You need to make sure that the book looks right from both orientations. At the top of the page you will see a small icon that says orientation. Click on each and view the book to



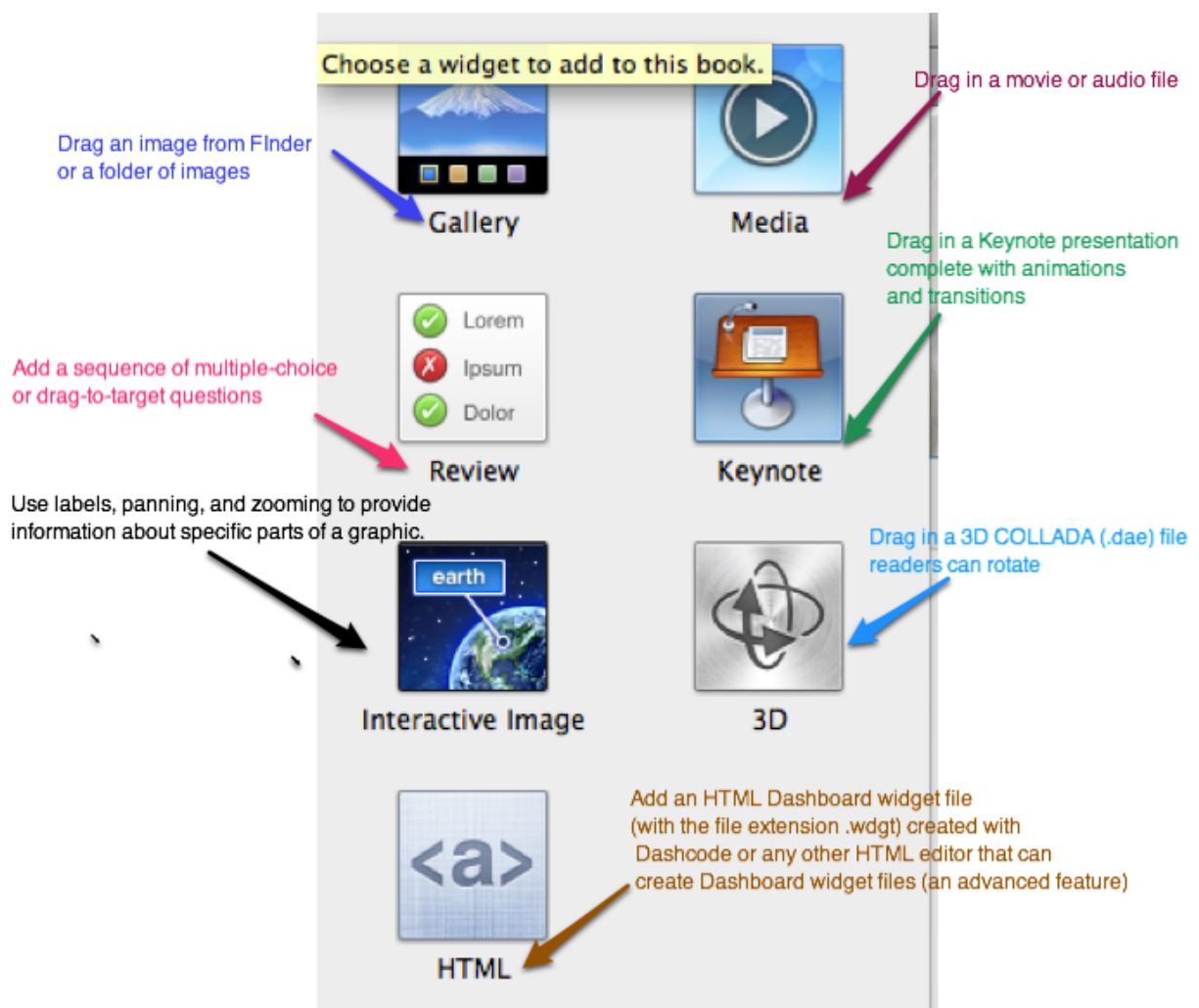
make sure that everything looks right from both view points.

Step Six: Plug your iPad into your computer and choose the preview option at the top. It's always best to preview your book on an iPad to make sure everything looks and interacts the way that you desire. If your layout is only good in landscape, you can disable portrait entirely by checking the box in the Document Inspector (Document tab).

Step Seven: Get Interactive. Click on the Widgets icon on the toolbar.



Choose one of the widgets. The media files can be resized, dragged and dropped into different locations on the page, and cropped to fit your needs.



Step Eight: Publish your final product. Now that you have created your iBook, it's time to export it so it can be published. First you need to export your publication. Click on File and choose export. Then choose iBooks from the menu. Give the iBooks file a name, choose a place to save it, and click export.

Displaying the iPad Screen

Teachers really want to the ability to display their iPad or their students' iPads on a projector screen. Projecting on a large screen is great for demonstrations, simulations, explanations, and showing examples. There are several ways this can be done in the classroom.

VGA Adaptor: If you do not need to move around the classroom or display student iPads, then the VGA dongle is the most straightforward connector. Plug in the iPad as you would your laptop. This method is cumbersome when walking around a classroom with a long cable attached to the iPad and the adapter and cable add weight. Allowing students to display their iPads requires disconnecting the dongle from one iPad and then re-connecting to another, creating a certain lack of spontaneity.

Document camera (or USB camera): Again, if you do not need to move around the classroom, then you can place your iPad in the document camera device, and project from the camera. One advantage is that all apps will work as they are displayed and with some finagling, students can display their iPad work.

If you want to wirelessly transmit your device's screen and audio so that you or your students can walk around the room, then it gets more complicated. Apple's AirPlay feature, built into all iPad 2s and newer, works over Wi-Fi so you can roam around the classroom with your iPad in hand. Any of the wireless options requires all devices to be on the same network.

Apple TV: Designed primarily for home use to connect to an HDMI television, the Apple TV can connect to a projector. iPad can mirror wirelessly to Apple TV using AirPlay. The caveats: Apple TV outputs HDMI only, so the school's projector should have HDMI input; if the classroom has an older projector, chances are that it will not have the necessary HDMI input. If that's the case, then the additional need is for an HDMI to VGA adapter like the Kanex ATVPRO.

Connecting to a laptop or computer: Software is available to turn a Mac or Windows PC into an AirPlay receiver. Download AirServer or Reflector (formerly named *Reflection*). The software, installed on your computer, allows the iPad to be mirrored on the computer screen. Since the computer is connected to a projector, the iPad screen shows on the projector. The advantage of this method is that school's do not have to purchase Apple TV's or adaptors, while teachers can still roam wirelessly and multiple students can access the Mac or PC to display their iPads for the class to view. Not all apps will work flawlessly with this set-up, so you will need to experiment. Both apps offer free trial downloads.

One major concern is the havoc the wireless methods can create. Apple TV, AirServer, and Reflector do not always work well because AirPlay requires the device and the computer or Apple TV to be on the same network. Often schools have different networks for mobile devices and for PCs so AirPlay won't work. Also, AirPlay requires specific ports to be open on the network and frequently they are not. By using these devices, the school is adding countless new wireless transmitters to its network, causing bandwidth and connection issues. Also, by installing AirServer on machines, some schools would have to restructure their VLANs, not always an easy task. Sadly, none of the options is perfect.