Mastering iOS Camera & Photos – Learning Guide

Subject/Topic	✔	Tasks	iOS User Guide for iOS 11.2	Notes
A. Camera Specifications & Features		Review and define camera specifications and key features Review homework assignment		Camera Ultimate Guide http://www.imore.com/camera-ultimate-guide
B. Tour/Navigating the Screen icons in Camera		1. Flash 2. HDR (High Dynamic Range) 3. Live Photo (if available) 4. Timer 5. Filters 6. Thumbnail to Photos 7. Rear Facing Camera vs. Front Facing "FaceTime" Camera 8. Camera Mode 9. On Screen Shutter Button	"Camera at a glance"	
C. Additional Camera features		*Settings> Photos & Camera* 1. Preserve Settings 2. Grid lines 3. Record Video 4. Record Slo-Mo (if available) 5. HDR - Keep Normal Photo		
D. Privacy		What are we talking about? Location (EXIF) Information *Settings> Privacy> Location Service> Camera*	"Location Services"	
E. Quick Access to Camera on iPhone & iPad		1. From Lock Screen 2. From Control Center 3. Using "Hey Siri"	"Control Center" "Hey Siri"	

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F. Taking Photos				
1. **Photo Modes**		1. Photo 2. Square 3. Panorama 4. Selfies using front facing "FaceTime" camera		
2. **Orientation & Alignment**		1. Landscape 2. Portrait 3. Which orientation is best? 4. Use of Grid Lines	"Grid"	*"Settings > Photos & Camera, then turn on Grid"*
3. **Live Photo**		1. What is **"Live Photo"***? 2. Storage considerations 3. Compatibility 4. How to enable/disable 5. Viewing demo		**Live Photos Demo** https://youtu.be/7iQpT62Bri4
4. **Shutter Controls**		1. On Screen Shutter Button 2. Use of Volume button on Device 3. Use of Volume button on Apple or compatible headphones Shutter sound adjustments 1. Ringer Volume and Mute 2. *Settings> Sounds & Haptics>Ringer and Alerts*		
5. **Zoom**		1. Zooming and Un-Zooming using Spread & Pinch gestures 2. Excepting iPhone 7 Plus, zoom is only digital ~ 10X for stills; 6X for video		

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F. Taking Photos (Cont'd)				
6. **Adjusting Exposure**		Exposure - Default is Automatic How to manually override, Tap screen next to yellow exposure rectangle; slide up and down to adjust	"Exposure"	
7. **Locking Focus & Exposure**		Focus is also automatic by default. To override and lock both focus and exposure, 1. Tap and Hold until the yellow rectangle pulses on screen. You'll then see a yellow indicator "AE/AF" on the screen which means "**A**utomatic **E**xposure and **A**utomatic **F**ocus" is locked. 2. Take as many photos as you wish using the locked settings. 3. To Unlock, just tap the screen and exposure and focus are now back in automatic (default) mode.		
8. **Flash Adjustments**		**Modes** 1. Auto (default) 2. On 3. Off **Retina Flash*** – What is it? For Selfies, camera uses the Retina HD display (main screen) as a flash for your selfie	"Flash"	* This feature is only on iDevices with the Retina display (main screen).

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F. Taking Photos (Cont'd)				
9. Viewing Photos (& Videos) from within Camera Mode		1. Tap on the Photo Thumbnail icon 2. This will Launch a Preview mode to view just taken and earlier - from within Camera App 3. Use it to verify your satisfied with your most recent photo or video taken 4. If not satisfied, you can delete it from your Library or Stream while in this preview mode 5. You can go back to the Camera, by Tapping Camera in the upper left corner of the preview screen.		
10. Burst Photos		1. What is Burst mode? 2. When it may be useful? 3. Taking a Burst series, just hold down the shutter continuously, release to stop. 4. Viewing/scrubbing 5. Selecting which of the burst photos to retain vs. discard	"Burst"	
11. Panorama		1. Choose Pano Mode, tap the Shutter button, then pan slowly in the direction of the arrow. 2. To finish the pan, tap the button again. To pan in the other direction, first tap the arrow. 3. Viewing a "panorama" photo	"Panorama"	

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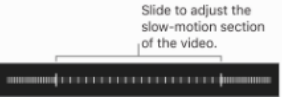| Subject/Topic	✓	Tasks	iOS User Guide for iOS 11.2	Notes
F. Taking Photos (Cont'd)				
12. Selfies		1. To take a selfie, you'll be using the FaceTime camera (facing from screen front) 2. Turn Flash to Auto or On 3. Select the front facing camera by Tapping the Camera icon with the circular arrows inside 4. Use any shutter method you wish to take the Selfie		
13. Face Detection		When photographing people, **face detection** balances the exposure across many faces. A rectangle appears for each face detected.		
14. Live Photos		*Live Photos* goes beyond snapshots providing movement and sound. 1. To take a Live Photo, turn on using the Bulls eye looking icon at top of screen. 2. Then tap the Shutter button. The camera records what happens just before and after you take your photo, along with the audio. The screen indicates the duration of the exposure. 3. You can edit Live Photos and add filters to them in the Photos app.	"Live photos"	* This feature is only on iDevices with the Retina display (main screen). **Live Photos Explained** http://www.knowyourmobile.com/ios/apple-iphone-6s/23310/apples-live-photos-explained-everything-you-need-know

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F. Taking Photos (Cont'd)				
15. HDR Mode		***HDR (High Dynamic Range)*** helps you get great shots in high-contrast situations. 1. Tap the HDR button. For best results, keep iPhone steady and avoid subject motion. 2. Both the normal and HDR version are saved in Photos. 3. To keep only the HDR version. Go to *Settings > Photos & Camera*, then turn off Keep Normal Photo. 4. In your albums, HDR versions of photos are marked with "HDR" in the corner.	"HDR"	**HDR Explained** https://www.iphonelife.com/content/tip-day-how-use-your-iphone-cameras-hdr-setting
16. Filters		With Photo Filters you can apply different color effects, such as Mono or Chrome. 1. To apply a filter in Camera Mode, Tap the Filter icon in upper right hand corner of the display. 2. Tap on the desired filter. 3. Take your photo(s) and they will appear with that effect will appear in your Library or Stream. 4. To deselect the filter, tap the Filter icon. 5. Then select None Even though you applied a filter, the original unfiltered version is still available.		

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F. Taking Photos (Cont'd)				
17. Capture Timer		Use the capture timer to give yourself time to be in the shot. 1. First stabilize your iDevice 2. Frame your shot. 3. Tap the Capture Timer icon 4. Tap your desired delay time 3s or 10s 5. Tap the Shutter button and get yourself into the frame. 6. The picture will be taken X seconds after you Tap the Shutter	"Capture Timer"	
G. Taking Video				
1. Video Modes		1. Video (HD) 2. Slo-Mo 3. Time Lapse		
2. Orientation		1. Landscape 2. Portrait 3. Which orientation is best for video?		
3. Recording Video		1. Select Video mode 2. Tap the on screen, Record (Red) button or either Volume button to start/stop recording 3. To snap a Still, while recording – Tap the White shutter button		Other video modes: 1080p, 60fps (iPhone 6 & newer); 4K, 30 fps (iPhone 6S & newer) *Settings > Photos & Camera > Record Video*

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G. Taking Video (cont'd)				
4. **Slo-Mo (Slow Motion Video)**		1. Select Slo-Mo mode 2. Start/Stop recording as in #2 above. 3. To set the start and end points of Slo-Mo, Tap the thumbnail of the clip, then the Adjustments symbol. 4. Slide the vertical bars under the frame viewer to select the section to be played in slow motion. 5. Then, Tap Done.	≡	1080p video at 120 fps and 720p at 240 fps (iPhone 6 and later) *Settings > Photos & Camera > Record Slo-mo* Slide to adjust the slow-motion section of the video.
5. **Viewing Photos (& Videos) from within Camera Mode**		1. Tap on the Photo Thumbnail icon 2. This will Launch a Preview mode to view just taken and earlier - from within Camera App 3. Use it to verify your satisfied with your most recent photo or video taken 4. If not satisfied, you can delete it from your Library or Stream while in this preview mode 5. You can go back to the Camera, by Tapping Camera in the upper left corner of the preview screen.		

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G. Taking Video (cont'd)				
6. Time – Lapse		1. Secure iDevice on a tripod or another stable platform 2. Select Time Lapse mode 3. Tap the on screen, Record (Red) button or either Volume button to start recording 4. Tap Record button or equivalent again to stop recording 5. The Time Lapse photos are now compiled into a video.		

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H. The Photos App				
1. **Overview**		You can view, organize, share, and edit photos and videos with the Photos App. To Launch Photos, tap Photos icon	"Photos at a glance"	Photos/videos taken with your iDevice; stored in iCloud; shared by others; saved from an email, text message, webpage, or screenshot; or imported from your camera or computer.
2. **Screen Tour**		Bottom tray/selections: Photos, Memories, Shared, and Albums Top Ribbon (dependent on view) Search, View Level, Select, Details, Share Favorites, Adjustments, Trash Play (for video) Hold for Live Photos		Memories to view photos and videos based on related dates, people, places, etc. Shared (albums) by or with you Albums created by you
3. **Navigation & Browsing**		Photos organized by: **Years** (highest), **Collections, Moments & Individual photos** 1. Tap the **Level** listed on top left header to go up in hierarchy 2. Tap on a photo in higher structure levels to go down in hierarchy 3. In **Years** view, drag finger to view enlarged thumbnail and to select **Collections** view 4. In **Individual Photos** view, swipe left or right to advance to next photo: or 5. Use scrubbing motion on film strip at bottom of screen to locate desired photo 6. Swipe motions to change pictures or place within a view		**Functions by Level** See table below

Functions by Level

Level	Years	Collections	Moments	Photo
Search	☑	☑	☑	
Select			☑	
Details				☑
Share				☑
Fav				☑
Adj				☑
Trash				☑

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H. The Photos App (cont'd)				
4. Viewing Basics		Orientation Zooming In/Out Play/Pause Video Details Full screen view		
5. Live Photo		Play a Live Photo Viewing compatibility Converting to a Normal Still		
6. Search		Enter date, place, category or person Ask Siri to perform search		

7. Slideshows & Video		1. Select photos and/or videos to be in your show
		2. Use Share icon to select slideshow
		3. Play/Pause
		4. Photo Slideshow Options
		   a. To select Theme
		   b. To select Music
		   c. Other
		5. Display options
		   a. Airplay to mirror through a TV via Apple TV
		   b. HDMI adapter to a TV or monitor
			⬆️	

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I. Organizing photos and videos				

1. Photos		1. Favorites
		   While viewing, tap the Favorite icon
		2. Hiding photos and/or videos
		   Viewing in Thumbnails, tap Select
		   Tap Share icon
		   Tap Hide
		   Now in Hidden Album, but not in Moments, Collections, Years & Memories
		3. Deleting photos and/or videos
		   In Photos view, tap photo you wish to delete
		   Tap the trash can icon, confirm deletion
		   Now placed in Recently Deleted Album with days remaining badge
		   To permanently delete now, delete from Recently Deleted Album
		4. Recovering deleted photos and/or videos
		   Go to Recently Deleted Album
		   Tap on photo(s) or video(s) to Undelete
		   Tap Recover, then Recover Photo or Video as appropriate
		5. Removing photos and/or videos from an album
		   Tap the photo or video
		   Then choose to remove it from Album or iCloud Photo Library		

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I. Organizing photos and videos (cont'd)				

2. Albums		1. Types: Created for you by the App
		   a) ***People, Places, Videos, Panoramas, Slo-mo, Bursts, Screenshots** and **Selfies***
		   b) Created by you
		2. New Album
		   Create a new album **+**
		   Name it
		   Select photos & videos
		   Tap Done
		3. Adding items to an existing album
		   Browse to item(s) you wish to add
		   Tap Add To
		   Select existing album
		4. Managing albums in Album View
		   Tap Edit
		      Renaming
		         Tap Album name
		         Type in new name
		      Rearrange/reorder
		         Touch to enlarge thumbnail
		         Then Drag to desired location
		      Deleting an album
		         Tap Delete symbol.
			+
			
			⊖	

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I. Organizing photos and videos (cont'd)				
3. Memories & Memory Movies		1. Select Memories View 2. Viewing Tap Memory title Normal viewing - use Play/Pause controls Scrubbing mode - to quickly view memory movie contents 3. To change Mood (Theme) Tap on a Memory movie while it's playing Then tap on Mood desired or Swipe to view additional mood selections Then tap on Mood desired to select 4. To change Duration (length in time) Tap on a Memory movie while it's playing Swipe to view additional duration selections Then tap on duration desired to select		

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I. Organizing photos and videos (cont'd)				

4. Customize a Memory Movie		1. Tap on a Memory movie while it's playing
		2. Tap Controls icon (three stacked horizontal lines)
		To change Title and sub-title
		    Enter your text
		    Option to change title style
		To change music track
		    Choose a different soundtrack or
		    Choose from music stored on your device
		Custom duration
		    Tap Duration
		3. Choosing Photos & Video to be in your Memory Movie
		    Tap Photos & Videos
		    Tap +
		    Then Tap the Photos and Videos you wish to add
		4. Removing a Photo or Video from your Memory Movie
		    Tap Photos & Videos
		    Tap a photo or video you wish to remove
		    Then tap the Trash Can symbol to remove them		

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J. iCloud				
1. Basics		1. What is iCloud? 2. Purpose/Uses 3. Feature sets 4. Free vs. Fee account		

2. Setup		1. Setting up your own iCloud account
		2. Putting iCloud to work for you
		    Device settings
		    Selecting/de-selecting apps you wish to synch
		3. To ensure synchronization, must use the same iCloud login on all devices
		4. How to change iCloud Storage plan		

3. Tips & Tricks		5. Backing up iDevices using iTunes vs. iCloud backup 6. Family Sharing 7. iCloud Drive		
K. Photo & Video Storage				
1. My Photo Stream		1. What is My Photo Stream? 2. Pros/Cons 3. Cost		

2. iCloud Photo Library		1. What is iCloud Photo Library?
		    Purpose/Uses
		    Feature sets
		    Pricing
		2. iCloud Photo Library vs. My Photo Stream
		3. How much iCloud storage?
		4. Storage alternatives		

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L. Sharing Photos & Video				

1. Photos - Shared Albums		1. Create a Shared Album in Photos
		2. Invite family friends and others to your "Shared" album
		    Works only with Photos App on iDevices, Macs and Apple TV
		    Invitee can accept invitation and view the "Shared" album(s)		

2. Email or Message		1. In Photos, select the photos you wish to send via email
		2. Tap the Share icon
		3. Tap Email (or Message) icon
		    iOS limits the # of photos/email (or message) to five (5) per email (or message)
		    You may get a prompt asking if you wish to send a different size (resolution) version of the photo attachment
		4. Tap Send
			⬆	

3. Make Prints		1. Select the photos you wish to print
		2. Tap the Share icon
		3. Tap Print
		4. Select Printer, # of copies, Tap Print
		    Size of the print will be determined by the paper size loaded into your printer
		    Printer must be AirPrint capable		

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Apple Photography Guide
https://www.apple.com/iphone/photography-how-to/

My Photo Stream and iCloud Photo Sharing limits
https://support.apple.com/en-us/HT202299

iCloud Photo Library & My Photo Stream

iCloud Photo Sharing
https://support.apple.com/en-us/HT202786

iCloud Photo Library and My Photo Stream
https://support.apple.com/en-us/HT205743

iCloud Photo Library
https://support.apple.com/en-us/HT204264

iCloud Photo Library Help
https://support.apple.com/en-us/HT204570

iCloud: My Photo Stream overview
https://support.apple.com/kb/PH13692?locale=en_US

My Photo Stream FAQ's
https://support.apple.com/en-us/HT201317

My Photo Stream Help
https://support.apple.com/en-us/HT203511

iCloud

iCloud Setup
http://www.apple.com/icloud/setup/

What iCloud storage plan should you get?
http://www.imore.com/what-icloud-drive-storage-plan-should-you-get

iCloud Storage Plans & Pricing
https://support.apple.com/en-us/HT201238

iCloud Help
http://help.apple.com/icloud/#/

iCloud for Windows
https://support.apple.com/en-us/HT204283

iCloud - How to Use with iPhone, iPad, Mac
http://www.imore.com/how-use-icloud-iphone-ipad-mac-and-ipod-touch

Ultimate Guides
Camera Ultimate Guide
http://www.imore.com/camera-ultimate-guide

Photos Ultimate Guide
http://www.imore.com/photos

iCloud Photo Library
http://www.imore.com/how-use-icloud-photo-library-ultimate-guide