



range Bytes

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NOCCC meetings for Sunday January 5, 2025

MAIN MEETING

Advancements in Machine Learning Optimization

By Tiffany Le

Special Interest Groups (SIGs) & Main Meeting Schedule

9:00 AM – 10:30 AM

Beginners Digital Photography**Science 131**

Questions and Answers about Digital Photography

Linux for Desktop Users.....**Science 129**

Beginners' Questions about Linux

10:30 AM – 12:00 PM Noon

3D Printing**Science 127**

Questions and Answers about 3D printing

Advanced Digital Photography...**Science 131**

Questions and Answers about Digital Photography

Linux Administration**Science 129**

More topics about the Linux operating system

Mobile Computing**Science 109**

We discuss smart phones, tablets, laptops, operating systems and computer related news. **Waiting for a new leader.**

12:00 PM Noon – 1:00 PM

3D Printing..... **Science 127**

Questions and Answers about 3D printing if requested.

PIG SIG **Irvine Courtyard**

Bring your lunch. Consume it in the open-air benches in front of the Irvine Hall or join the group that goes to the student cafeteria. Talk about your computer(s) and life experiences.

1:00 – 3:00 PM Main Meeting

Advancements in Machine Learning Optimization

There are many different types of Machine Learning Optimization algorithms. Most of them have been given names. Some examples: Gradient Descent Optimization, Stochastic Gradient Descent (SGD), Adam, AdaGrad, RMSprop, Newton and Quasi-Newton Optimizations, BFGS (Broyden-Fletcher-Goldfarb-Shanno), Evolutionary Algorithms, Swarm Intelligence Algorithms, Bayesian Optimization, and we can't forget, Coordinate Descent.

Ms. Le will enlighten us on some of these.

BOD.....3-4PM..... Science 129

3:00 PM – 4:00 PM

Board Meeting..... **Science 129**

Verify your membership renewal information by checking your address label on the last page. If it is not right, let the treasurer know.

Mark your calendars for these meeting dates
2025: Jan 5, Feb 2, Mar 2 Apr 6, May 4.

Coffee, cookies and donuts are available during the day in room 129 .

“Friends Helping Friends” since April 1976

Table of Contents

Main Meeting ___ 1

Special Interest Groups ___ 1

Again, verify your membership renewal information by checking your address label on the last page

Mark your calendars for these meeting dates ___ 1

Contact information and email forwarding addresses ___ 2

ZOOM CELL CAMERA TIPS ___ 2

A Little More Humor ___ 3

Directions and map ___ 4

Special email addresses

Jim Sanders is: editor@noccc.org

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Our Website

WWW.NOCCC.ORG

Reminder: Membership expiration dates are based on the date that you joined the club. **Example**, you joined or re-upped your membership in the club in October of 2024. That means that in October 2025 you should pay your membership dues. In the address label area of the Orange Bytes is your join month/expiration month.

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ZOOM CELL CAMERA TIPS

USE YOUR CELL PHONE CAMERA DURING ZOOM

Author: Larry McDavid, North Orange County Computer Club
November 26, 2024

Most of us use a built-in laptop camera or a desktop web camera for Zoom. However, it is inconvenient to point that camera around the room when you want to show some object up close. We all now have cell phones with good cameras so I looked for a way to use my cell phone camera optionally as a supplemental camera within a Zoom meeting. When you want to show something up close with the cell phone camera you can change to that camera choice within Zoom, walk around the room to show what you want and then switch back to the usual Zoom camera. This works during regular meeting discussion but not during your Share Screen.

This requires your Zoom computer and your cell phone to both be connected to your local WiFi network; most of us configure our cell phones to always connect to our home WiFi when we have the cell phone at home so you likely already do this.

The method to use a cell phone camera differs between Android and iPhone cell phones. I will first discuss using Android cell phones, then Apple iPhones. Zoom can be installed on either Windows PC or Apple computers but the instruction differences are minor and should be self-evident.

USE ANDROID CELL PHONE CAMERA FOR ZOOM ON WINDOWS PC

Using an Android phone within Zoom requires installing a small app on both the cell phone and on the Windows computer; those apps are free and once installed are easy to use. The app I found is DroidCam and instructions for getting the apps and using the system are explained here:

<https://droidcam.app/>

Detail instructions are given here:

<https://droidcam.app/windows/#Step1>

In summary, you need to install the Android DroidCam app on your cell phone and you need to install the Windows DroidCam app on your computer. The cell phone DroidCam app is available on the Google Play Store and there is both a free (DroidCam Webcam Classic) and a \$5 (DroidCamX HD Classic) version. The key difference is the \$5 app has continuous cell phone camera auto focus, potentially higher camera resolution and some editing options. The web address to get the free Windows DroidCam app is in the instructions shown above.

After installing the two apps, to start using the cell phone camera for Zoom, do this:

Start the DroidCam cell phone app on your Android cell phone.

Start the DroidCam Windows app on your Windows computer; a Connect app screen will appear.

-2a. Click the check box to enable cell phone audio for use if chosen in Zoom.

-2b. Click START in the Connect app screen.

The first time you do this you will need to first copy the IP address shown on the cell phone app screen to the IP field on the Windows DroidCam app screen. That address will be remembered for future use so you need do this only once while on the same local WiFi network.

When in the Zoom meeting and you want to use the cell phone camera do this:

-4a. Click the up-arrow beside Video in the bottom Zoom toolbar.

-4b. Click "DroidCam Source" in the Zoom Video pop-up camera list.

That will display video from the phone camera within Zoom. Hold the cell phone in landscape mode. Please use a tripod or other means to stabilize the video image. If the image is upside down, rotate the cell phone. If the image is reversed, click the Mirror icon in the DroidCam computer app screen.

Android cell phones cannot be used during Zoom Screen Share so meeting members may want to change View to Speaker rather than Gallery so your video is seen full screen.

If you want to use the microphone in your cell phone while in Zoom, do this:

-7a. Click the up-arrow beside Audio in the bottom Zoom toolbar.

-7b. Click "Microphone (DroidCam virtual audio)" in the Zoom Audio pop-up list

This may seem complex but after you've done it once it will be easily done. If you anticipate using your cell phone within Zoom, load the two DroidCam apps early.

8. To return to the usual web cam for Zoom:

-8a. Click the up-arrow beside Video in the bottom Zoom toolbar.

-8b. Click the camera in the list that is your usual web camera.

-8c. Click the up-arrow beside Audio in the bottom Zoom toolbar.

-8d. Click the microphone in the list that is your usual Zoom microphone.

When done with Zoom, you may close both DroidCam applications.

Subsequent articles for using this Zoom camera approach for Apple iPhones will follow.

USE APPLE IPHONE CAMERA FOR ZOOM IN WINDOWS PC

Continuing the instructions for using a supplemental camera for Zoom already running with a built-in laptop camera or a webcam, this will describe using an Apple iPhone camera instead of an Android cell phone camera. This will allow you to optionally change from the original Zoom camera to your iPhone camera and carry that phone around to show de-

tails nearby not visible to the built-in camera.

This requires your Zoom computer and your cell phone to both be connected to your local WiFi network; most of us configure our cell phones to always connect to our home WiFi when we have the cell phone at home so you likely already do this.

Zoom already has built-in a facility to use an iPhone camera so no additional phone app or computer app is needed. See the previous article instructions to use an Android cell phone camera.

The Zoom feature to use an iPhone camera is located within the Zoom Share function. To change to your iPhone, do this:

Click the green "Share" button on the bottom Zoom toolbar. Do not begin Share.

1a. Click the "Advanced" tab at the top of the Zoom Share screen.

1b. Click "iPhone/iPad via AirPlay."

Click the blue "Share" button at the bottom of the Share screen.

You must configure your iPhone for use in Zoom; do this:

Start the iPhone Control Panel by swiping down from the top of the screen.

2a. Tap the Screen Mirroring icon; it looks like two staggered monitor screens.

2b. Tap "Zoom" (this word is followed by the name of your computer).

Exit the iPhone Control Panel.

Start your iPhone camera app.

That will immediately change the Zoom camera from the laptop or webcam to your iPhone camera and you can carry your phone around to show details. The phone camera controls will work as usual.

I have not found a way to use the iPhone microphone audio while mirroring the iPhone camera. If you find a way please report it.

To stop using the iPhone camera, you can stop Share or change back to the usual Zoom camera by clicking the Video up-arrow and selecting the original Zoom camera.

A LITTLE HUMOR (for the majority of us)

February 2025 – An old man approached the White House from across Pennsylvania Avenue, where he'd been sitting on a park bench. He spoke to the Marine standing guard and said, "I would like to go in and meet with President Joe Biden." The Marine replied, "Sir, Mr. Biden is not President and doesn't reside here." The old man said, "Okay," and walked away.

The following day, the same man approached the White House and said to the same Marine, "I would like to go in and meet with President Joe Biden." The Marine again told the man, "Sir, as I said yesterday, Mr. Biden is not President and doesn't reside here." The man thanked him and again walked away.

The third day, the same man approached the White House and spoke to the very same Marine, saying "I would like to go in and meet with President Joe Biden." The Marine, understandably agitated at this point, looked at the man and said, "Sir, this is the third day in a row you have been here asking to speak to Mr. Biden. I've told you already several times that Mr. Biden is not the President and doesn't reside here. Don't you understand?"

The old man answered, "Oh, I understand you fine. I just love hearing your answer!"

The Marine snapped to attention, saluted, and said, "See you tomorrow."

North Orange County Computer Club

**Dr. Donald Armstrong
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To All Members:

The line above your mailing address now shows your joindate. Please use your join **month** to choose when to renew your membership.

Dated Material – Please deliver ASAP

Membership Level (\$)	1 Year	3 Years
Individual Member	35	90
Each Additional Family Member	15	40
Full-Time* Enrolled College Student	20	
Enrolled High School Student	15	
*Minimum 12 Semester Hours		
Business Member + Ad (Business Card)	25	
Business Member + Ad (¼ Page, ½ Page)	65,	100
Business Member + Ad (Full Page)	175	
Contributing Member	75	
Supporting Member	100	
Advocate Member	250	
Patron Member	500	

Directions to the NOCCC meeting location



Enter CA-55 N (Costa Mesa Freeway) crossing Interstate 5 toward Anaheim/Riverside for 9 miles. *Notice freeway and street signs stating "Chapman University."* Exit toward E Chapman Ave. Turn right onto N Tustin St. Turn left onto E Walnut Ave.

1) Turn left past N. Center St. for the **best place to park** in the underground parking structure (Lastinger under the sports field). Pay the small fee (\$2) to park Ask members or help@noccc.org about parking details, restrictions, and our price break!

2) Turn left onto N Center St. On the right is the Hashinger Science Center, 346 N Center St. Orange California. Parking on the University side is free. Parking on the residential side is a city violation that may cost you a **tow away and a ticket!**