

an introduction to

OBS-studio



recording with **Open Broadcasting Software**

OBS Studio

Latest Release    25.0.8 - April 26th

Windows

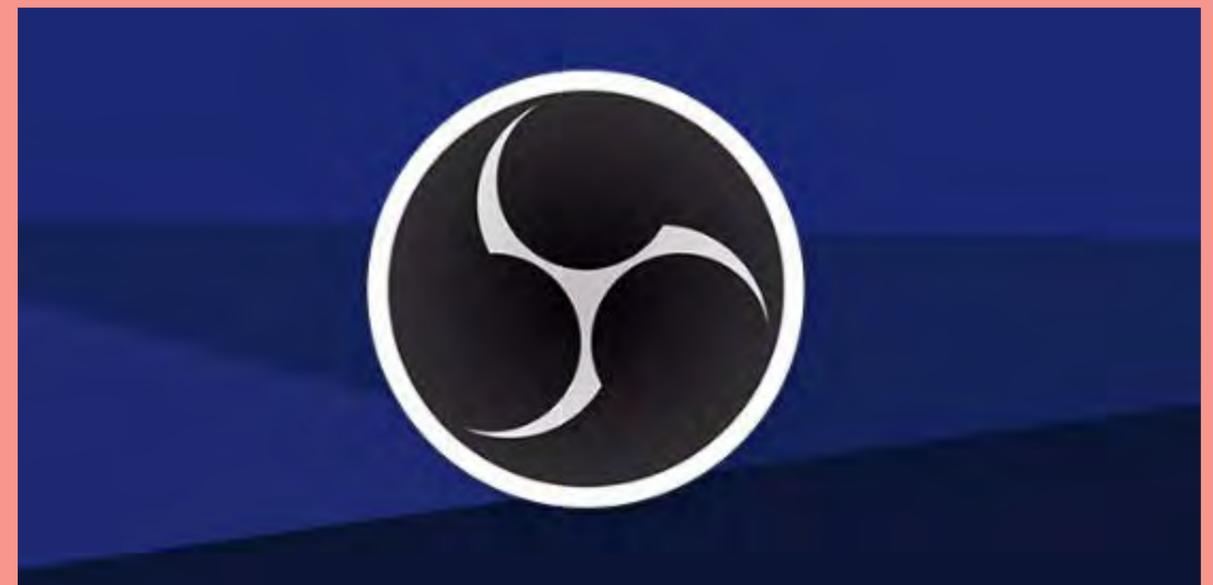
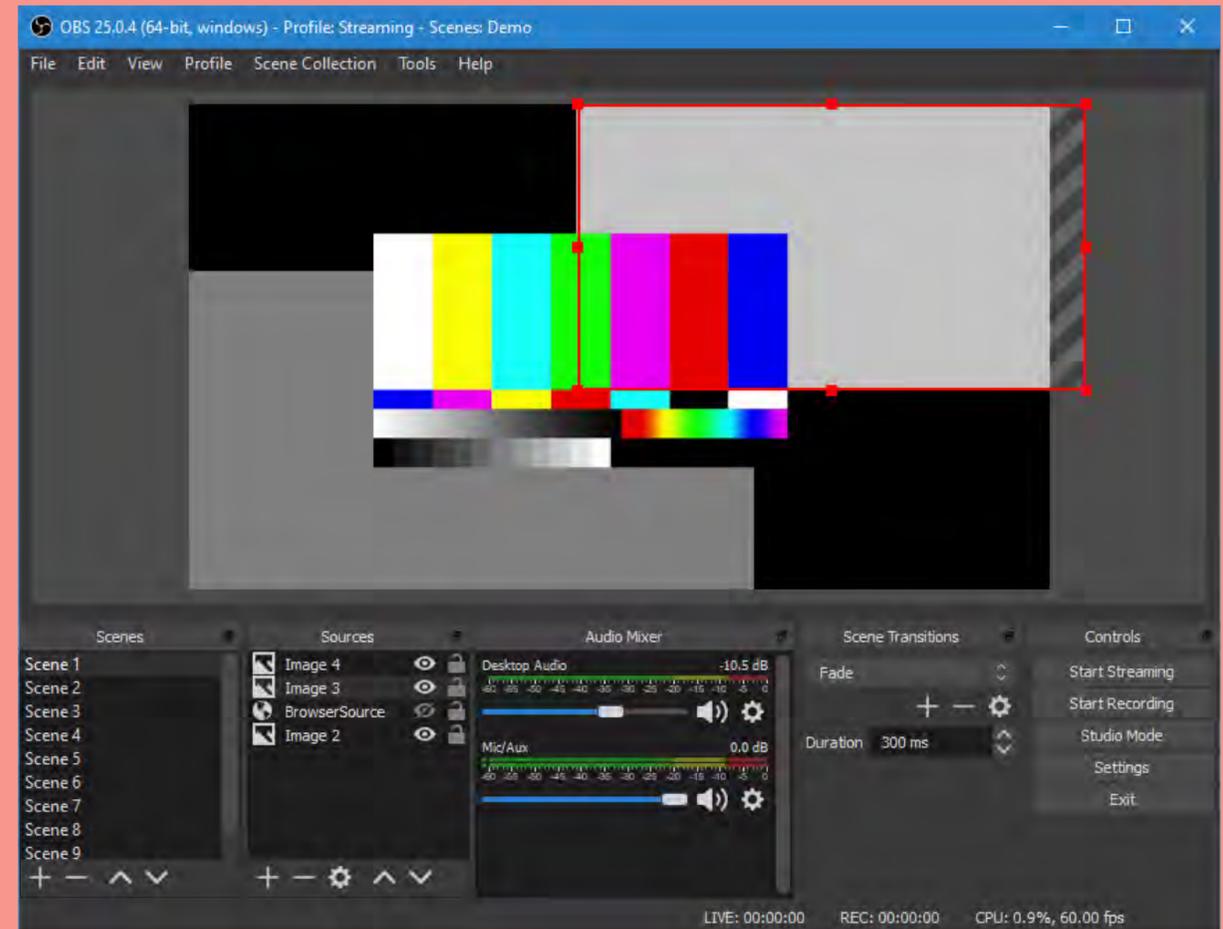
macOS 10.13+

Linux

Free and open source software for video recording and live streaming.

**download-install-open
OBS Studio**

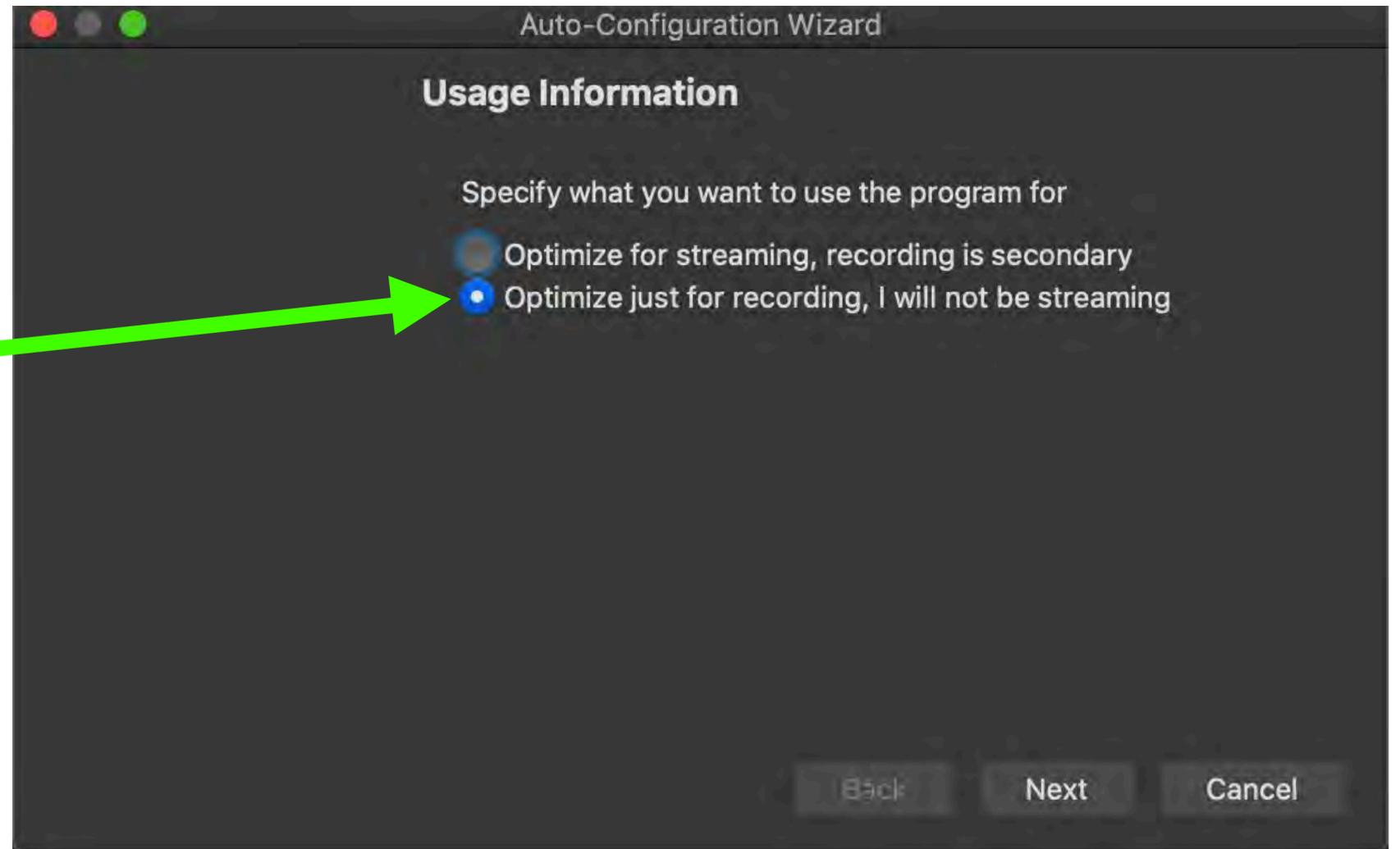
<https://obsproject.com/>



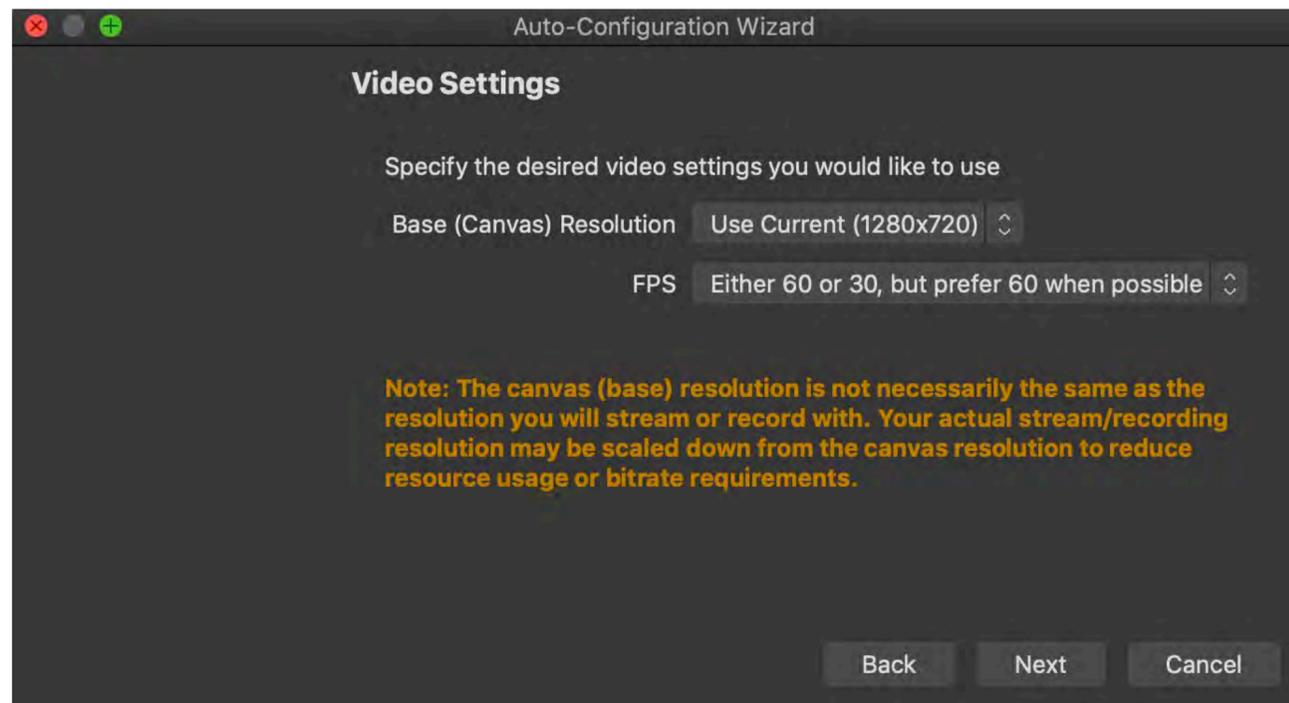
When you run it the first time use the 'Auto-Configuration Wizard'



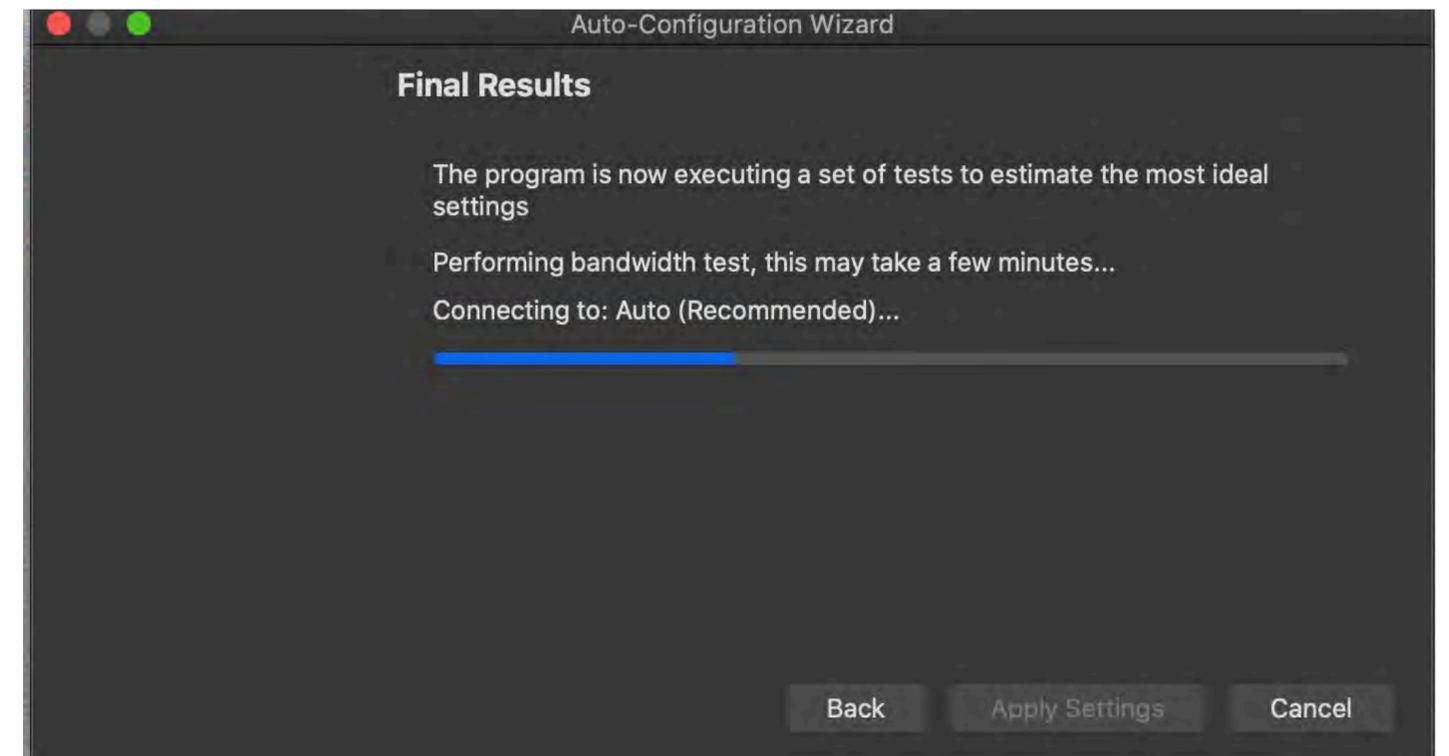
**RUN Auto-Configuration Wizard
choose Optimize for Recording**



I set my output to my screen size, you can adjust as you like

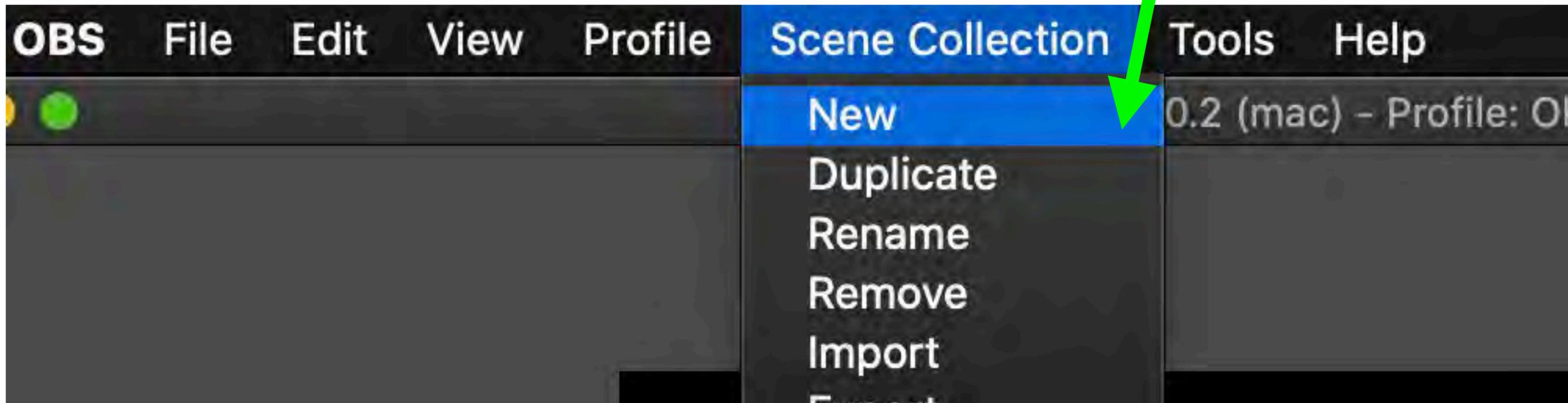


This may take a few minutes
If you choose to *stream*,
Run the configuration again and
Optimize for Streaming

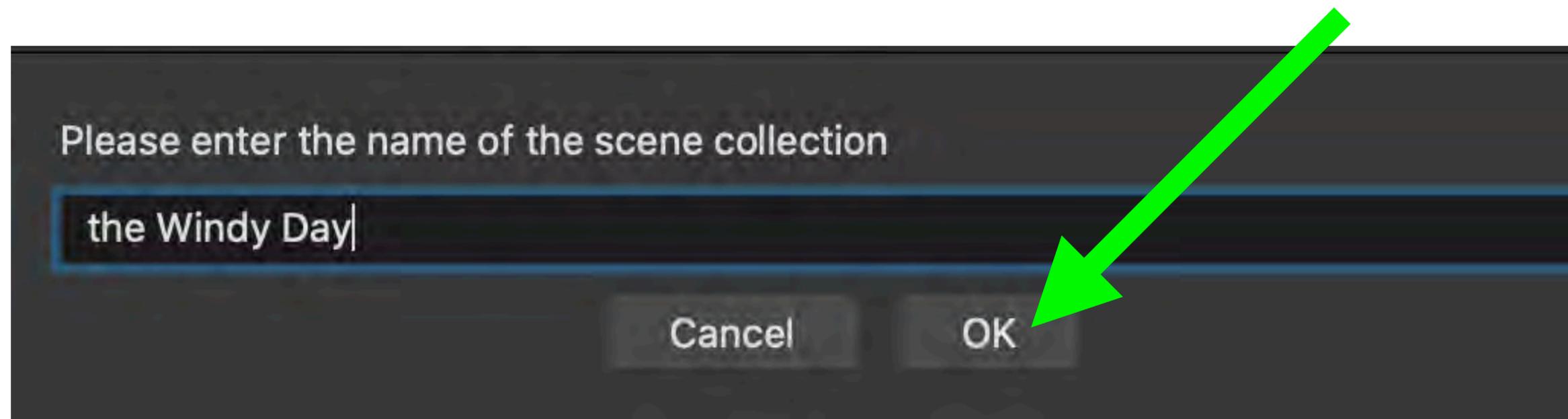


Create a new *Scene Collection* for your project!

Scene Collection > New



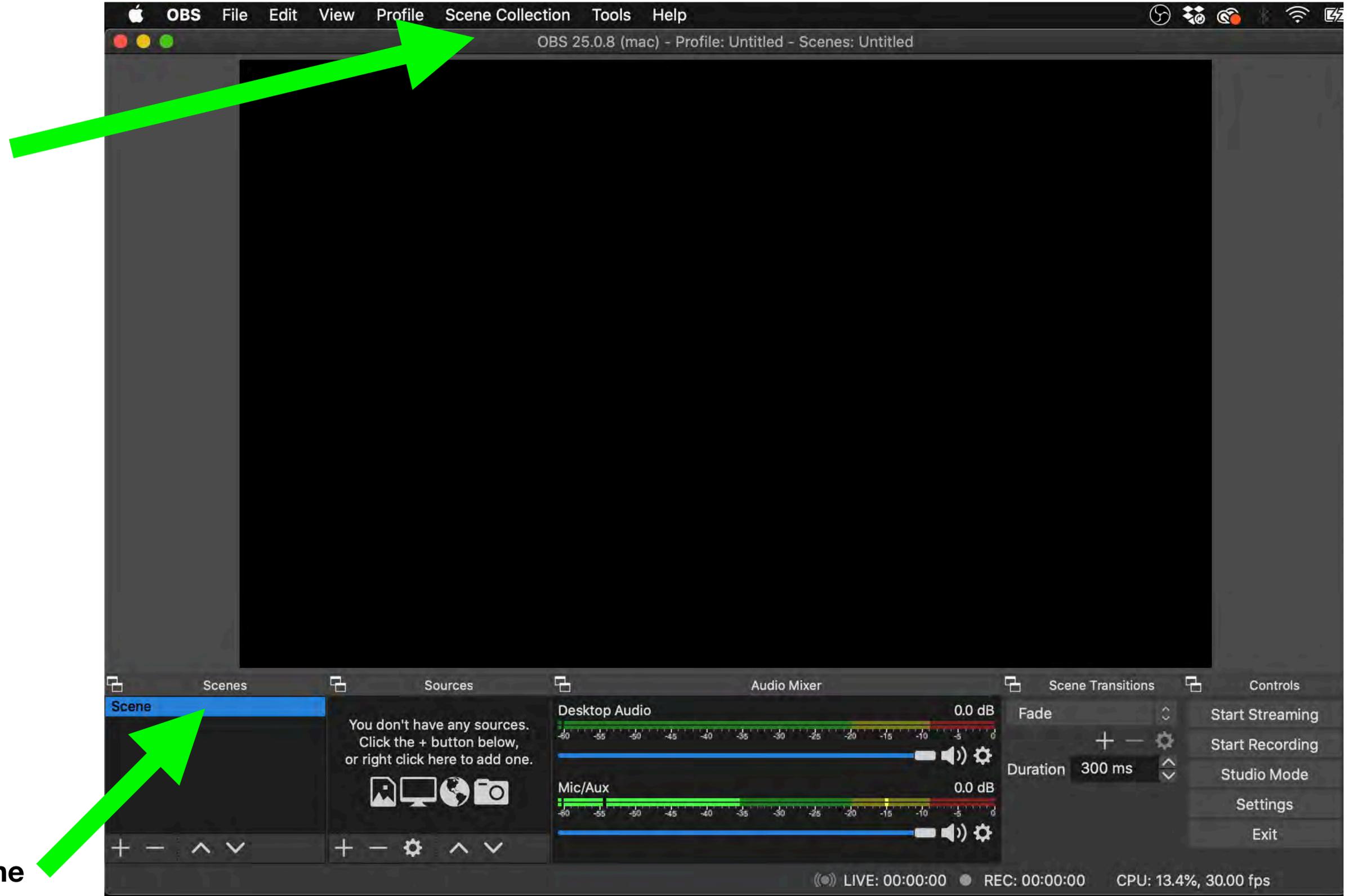
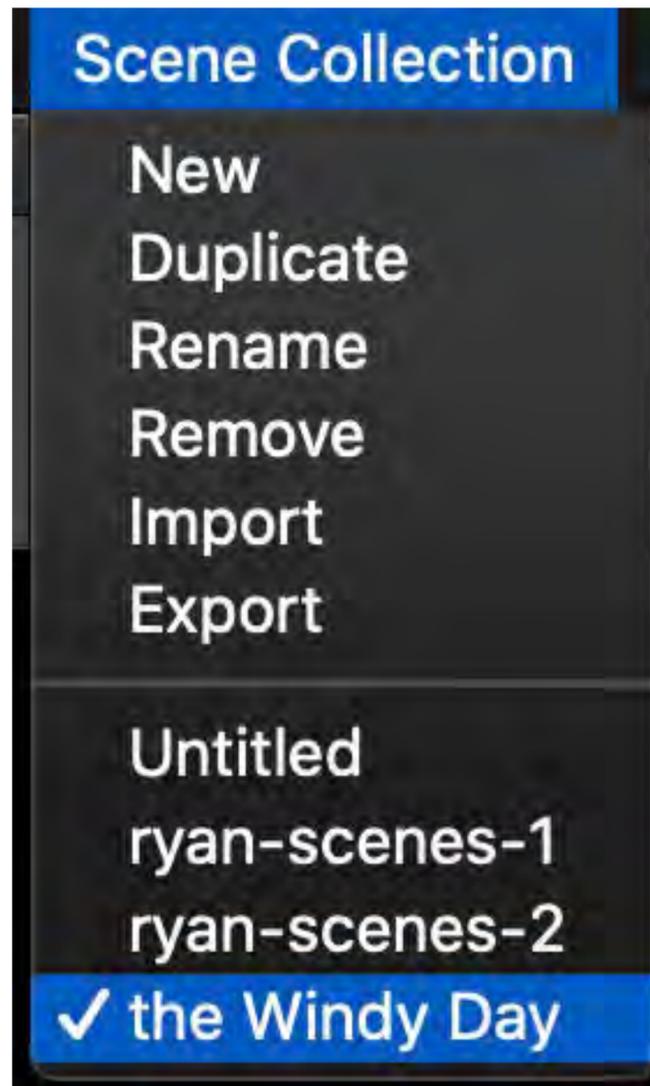
**I called mine
'the windy day'
then press OK!**



Scenes

Load your scenes from your new Scene Collection.

By *Default* in OBS your first scene is called 'Scene' (you can add more later and rename)



the default first scene

Sources

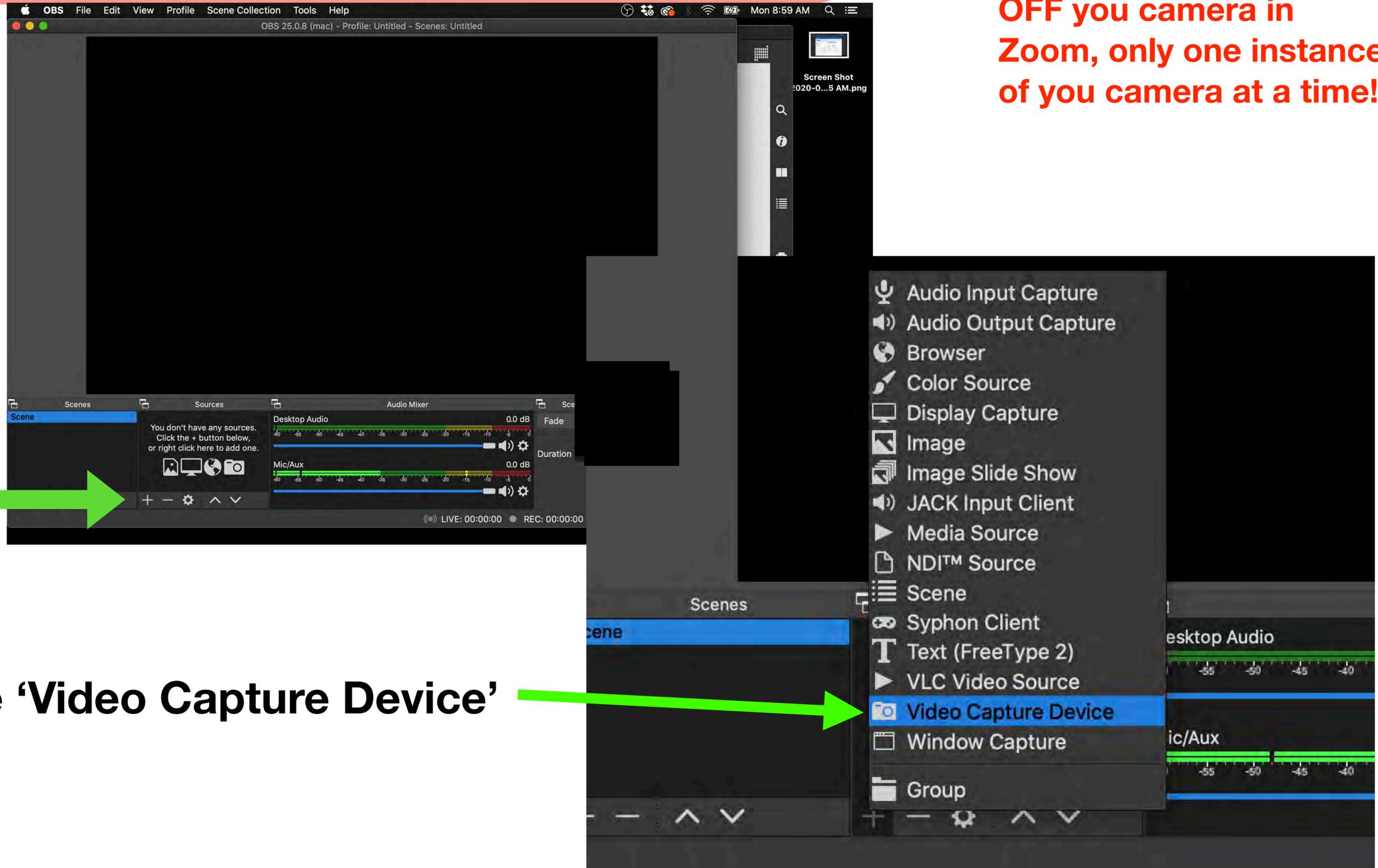
Add a *Source* to your scene, we can add many!
Begin with your Laptop's Camera

Note: Windows Turn OFF you camera in Zoom, only one instance of you camera at a time!

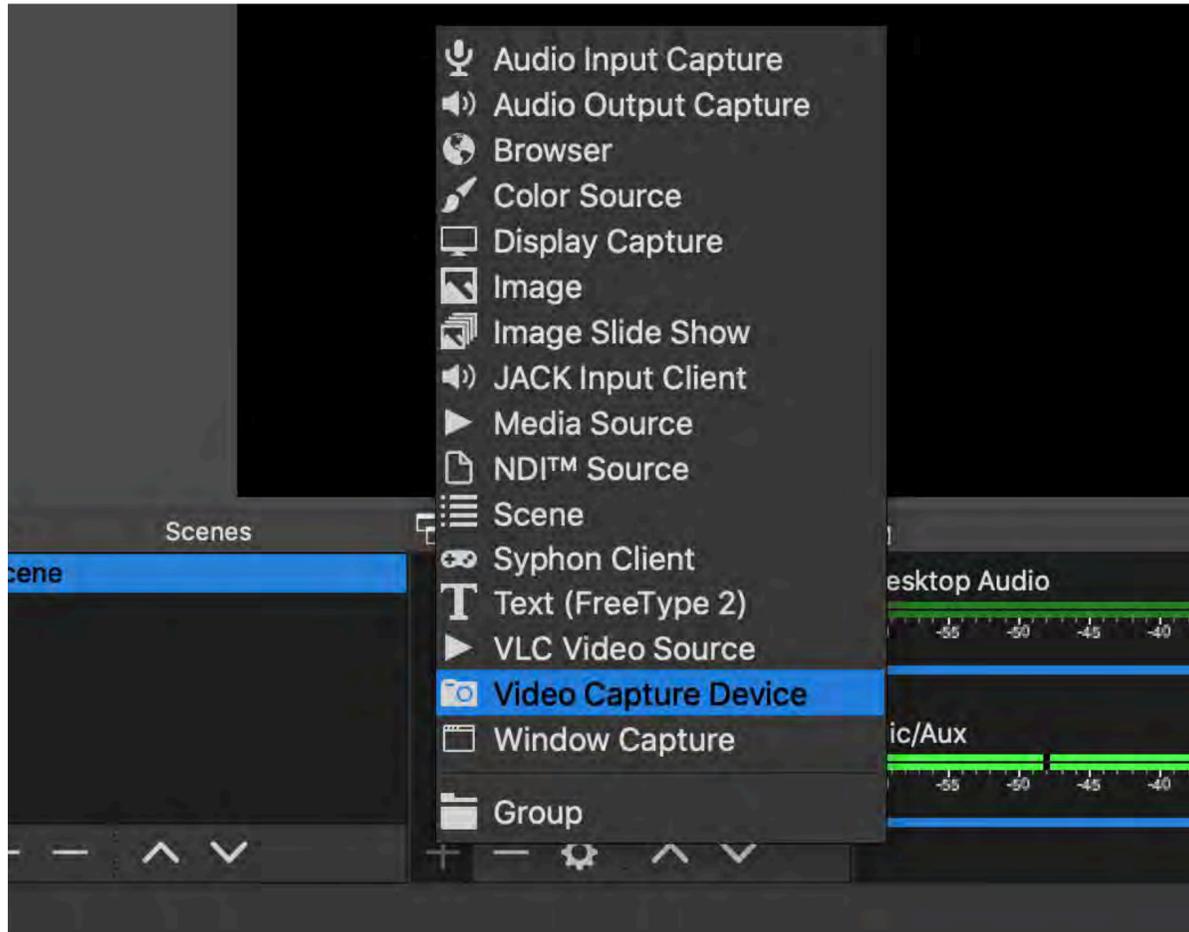
Click the +
to add a
Source



choose 'Video Capture Device'

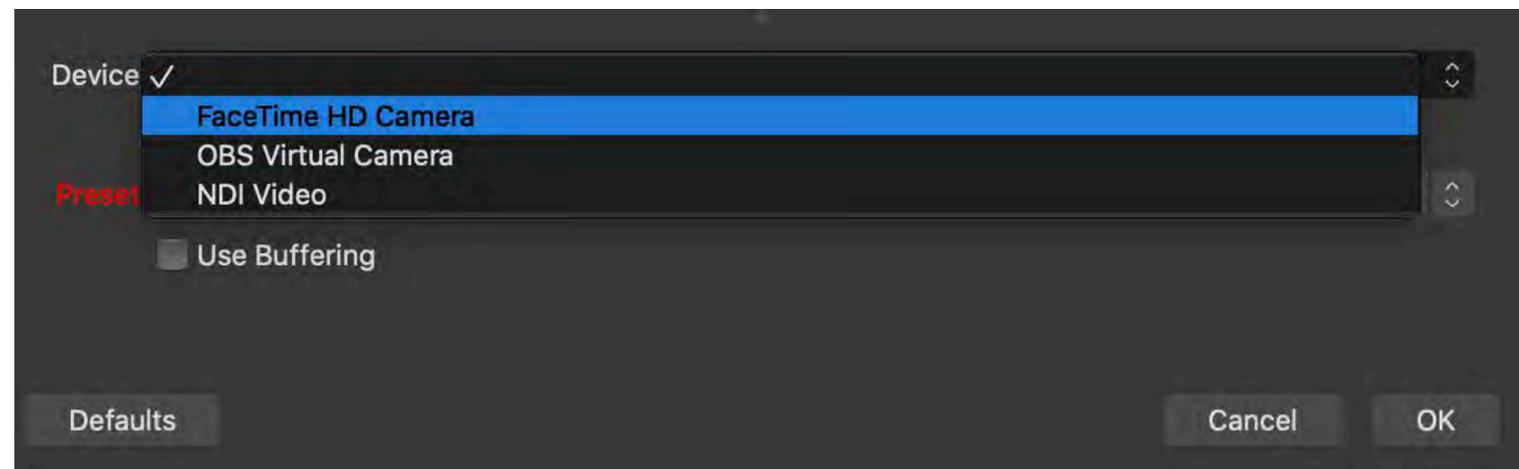
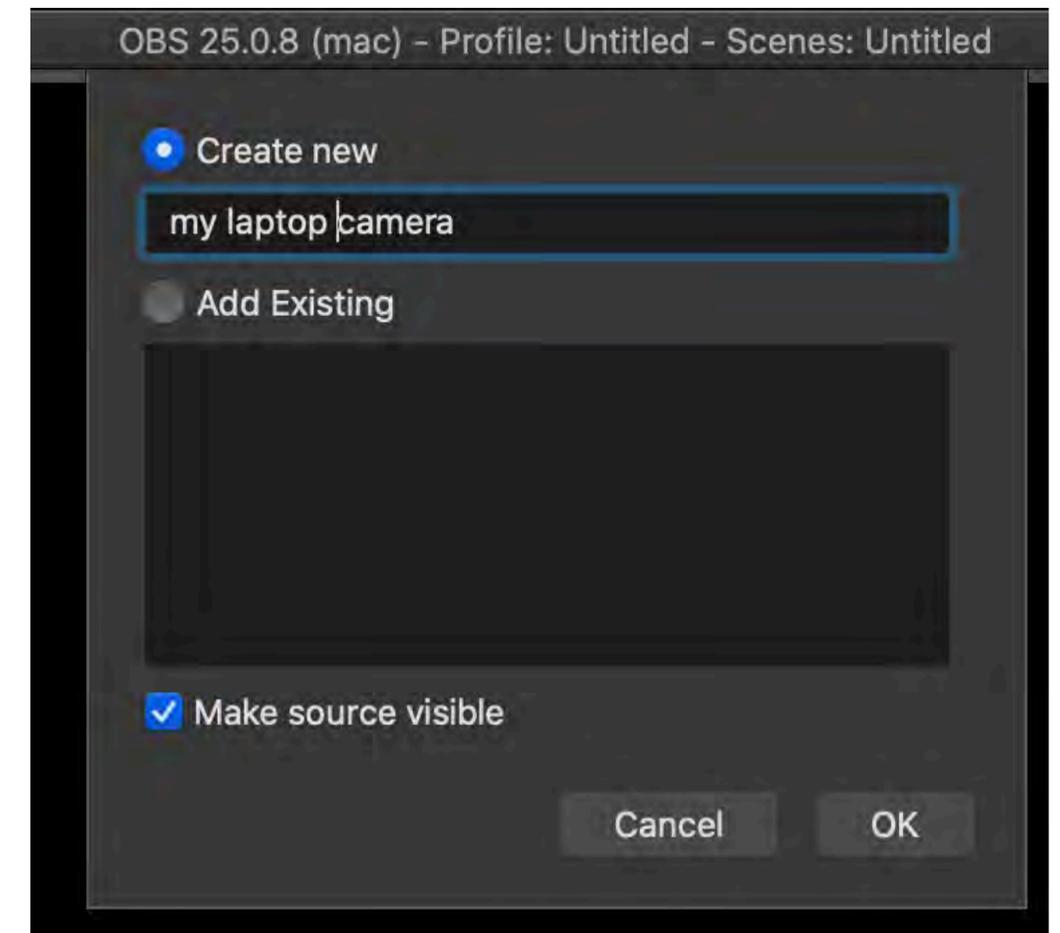


from the menu that pops up choose
‘Video Capture Device’



a new window pops up - make
a new instance.

I called mine ‘my laptop camera’



Choose your camera,
mine is ‘FaceTime HD Camera’

HELLO WORLD!

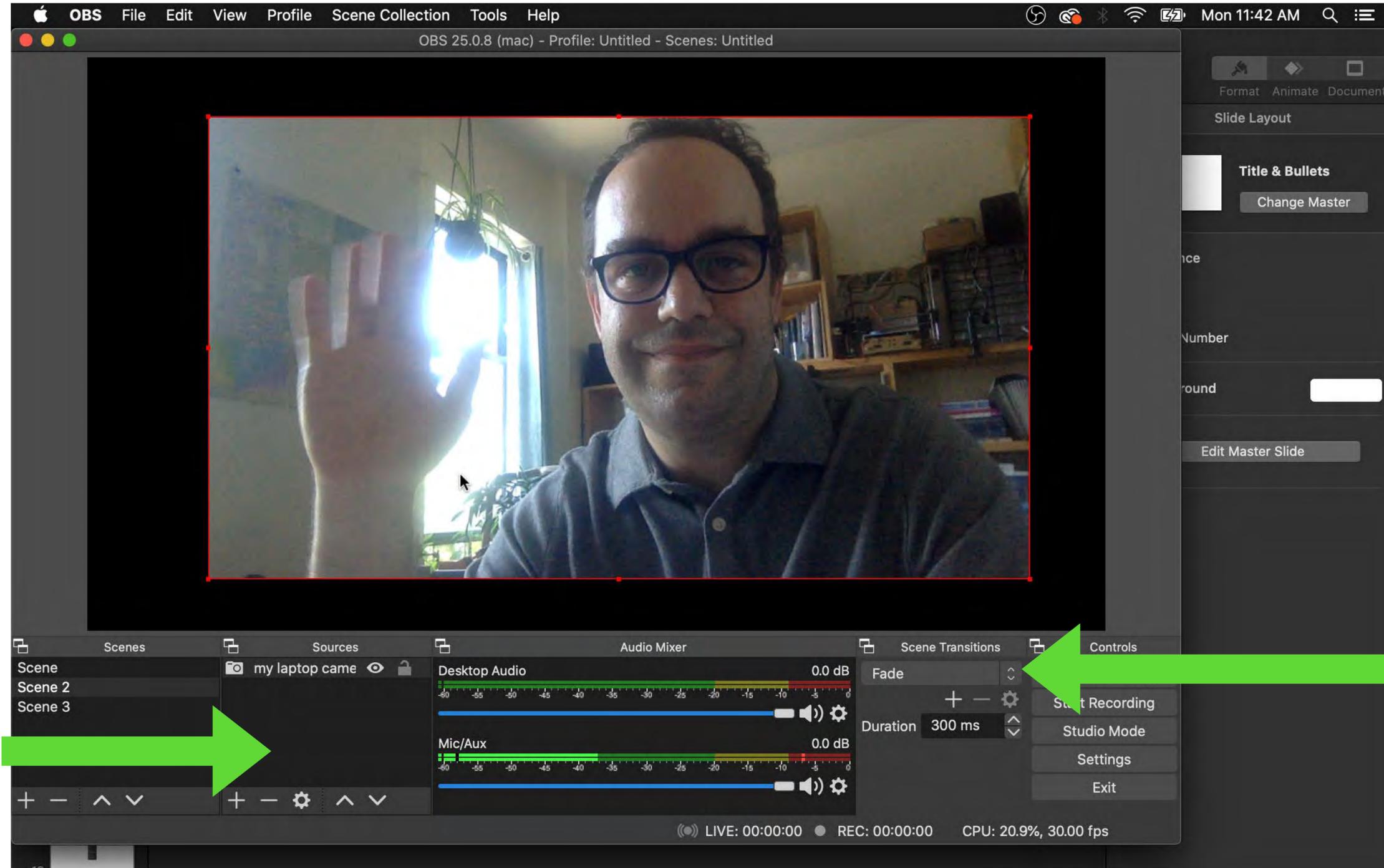
you should now see your camera in OBS!

CHOOSE
VISIBILITY HERE

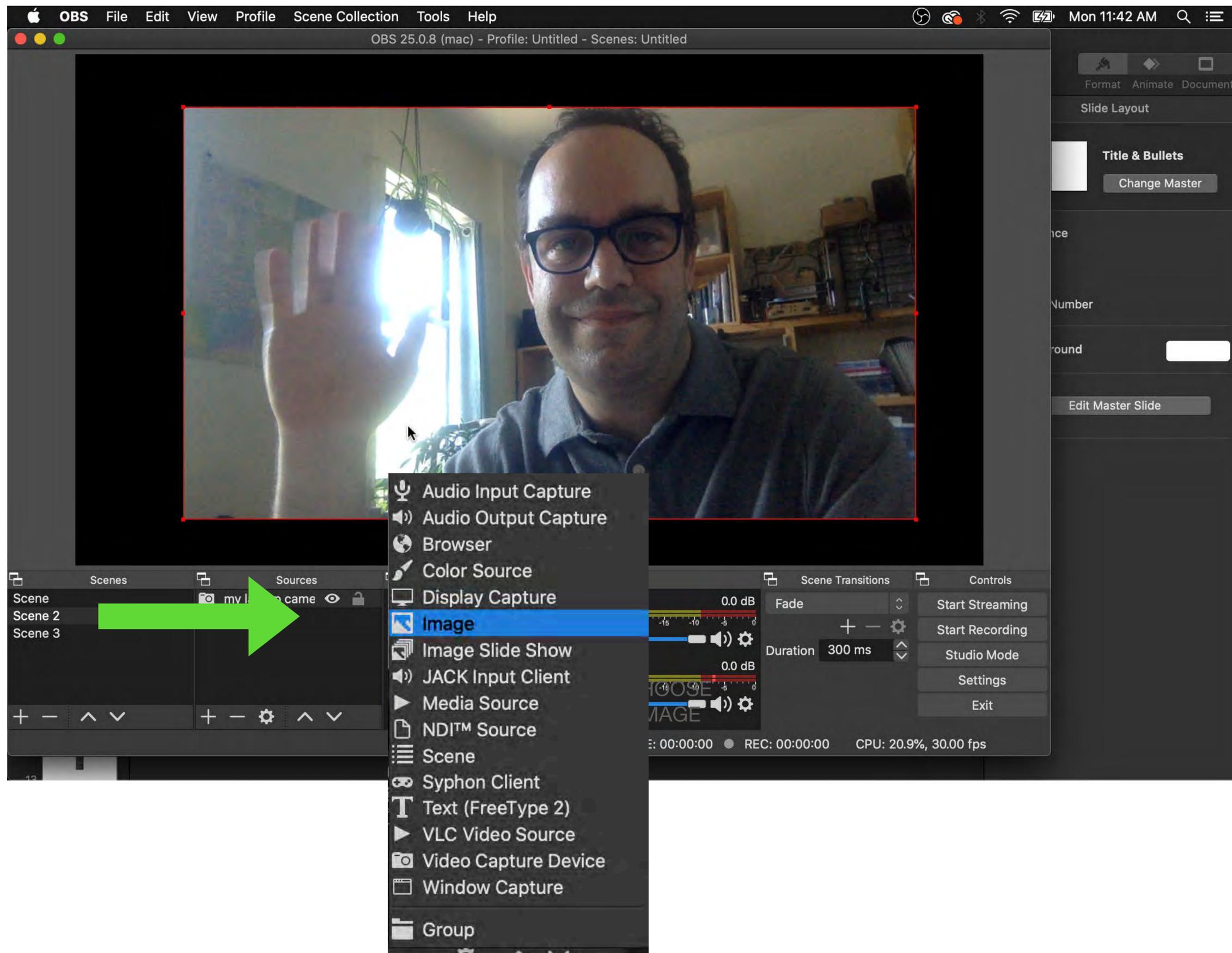
DOUBLE CLICK
TO CHOOSE A
DIFFERENT
SOURCE

RIGHT CLICK TO
MAKE
ADJUSTMENTS

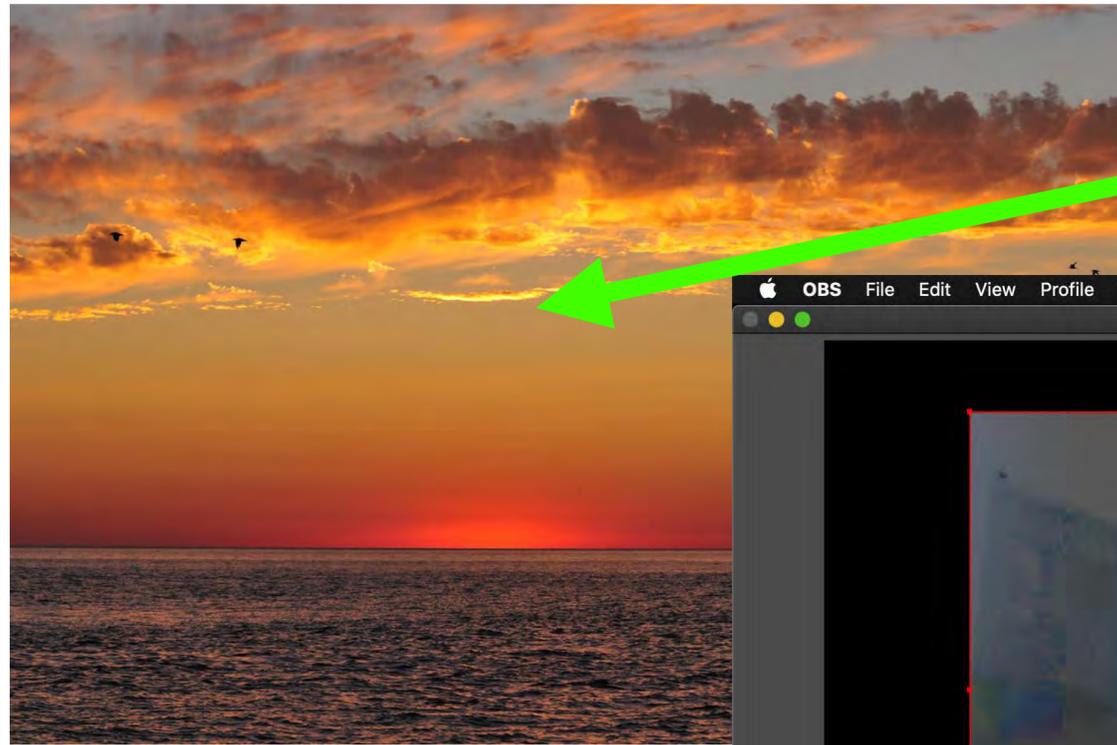
CLICK AND
DRAG TO
POSITION
AND CLICK
CORNERS TO
RESIZE



CLICK +
TO ADD
A NEW
SOURCE
TO
YOUR
SCENE

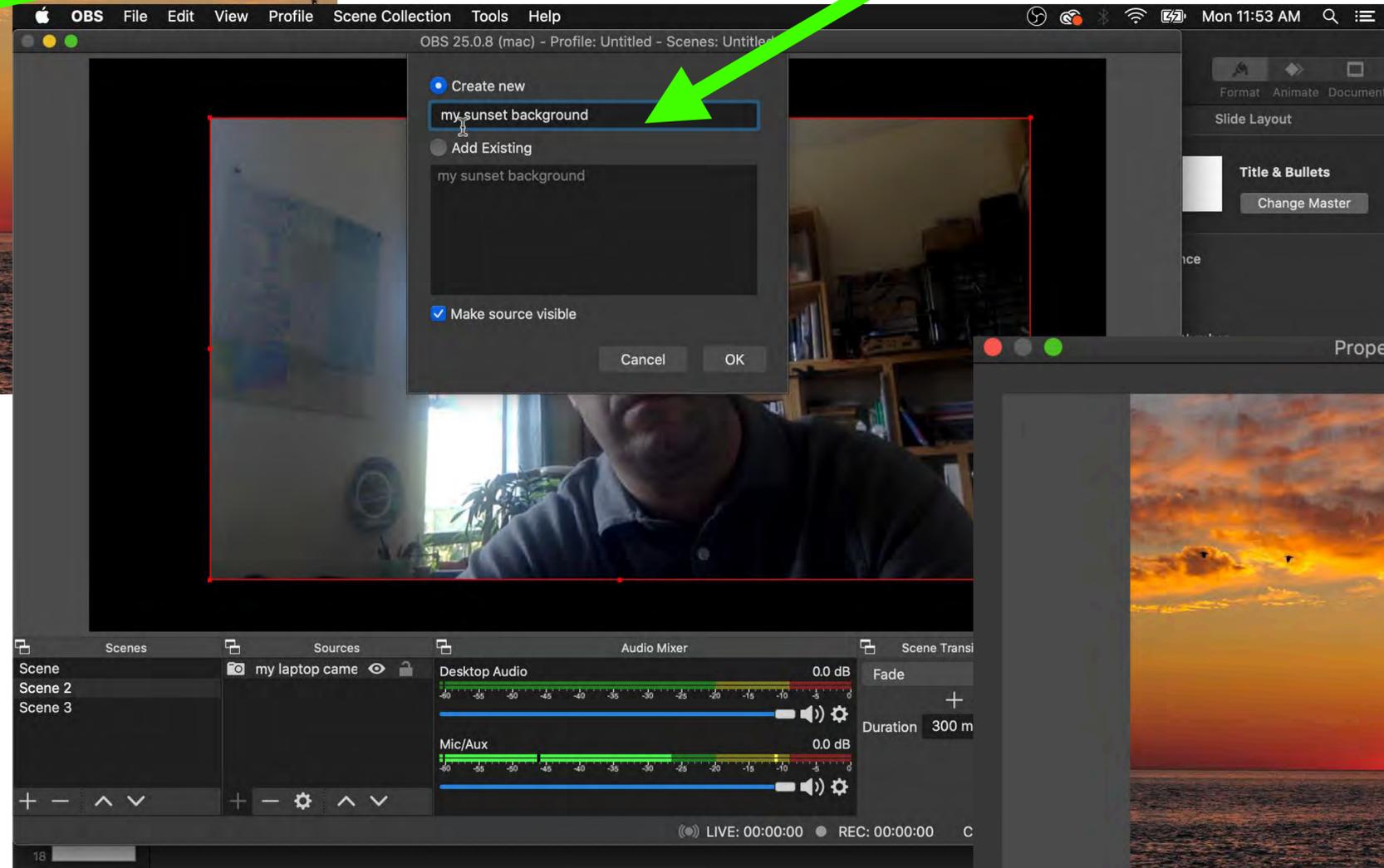


LOCATE
AN IMAGE
ON YOUR
LAPTOP
AND ADD
IT TO THE
SCENE

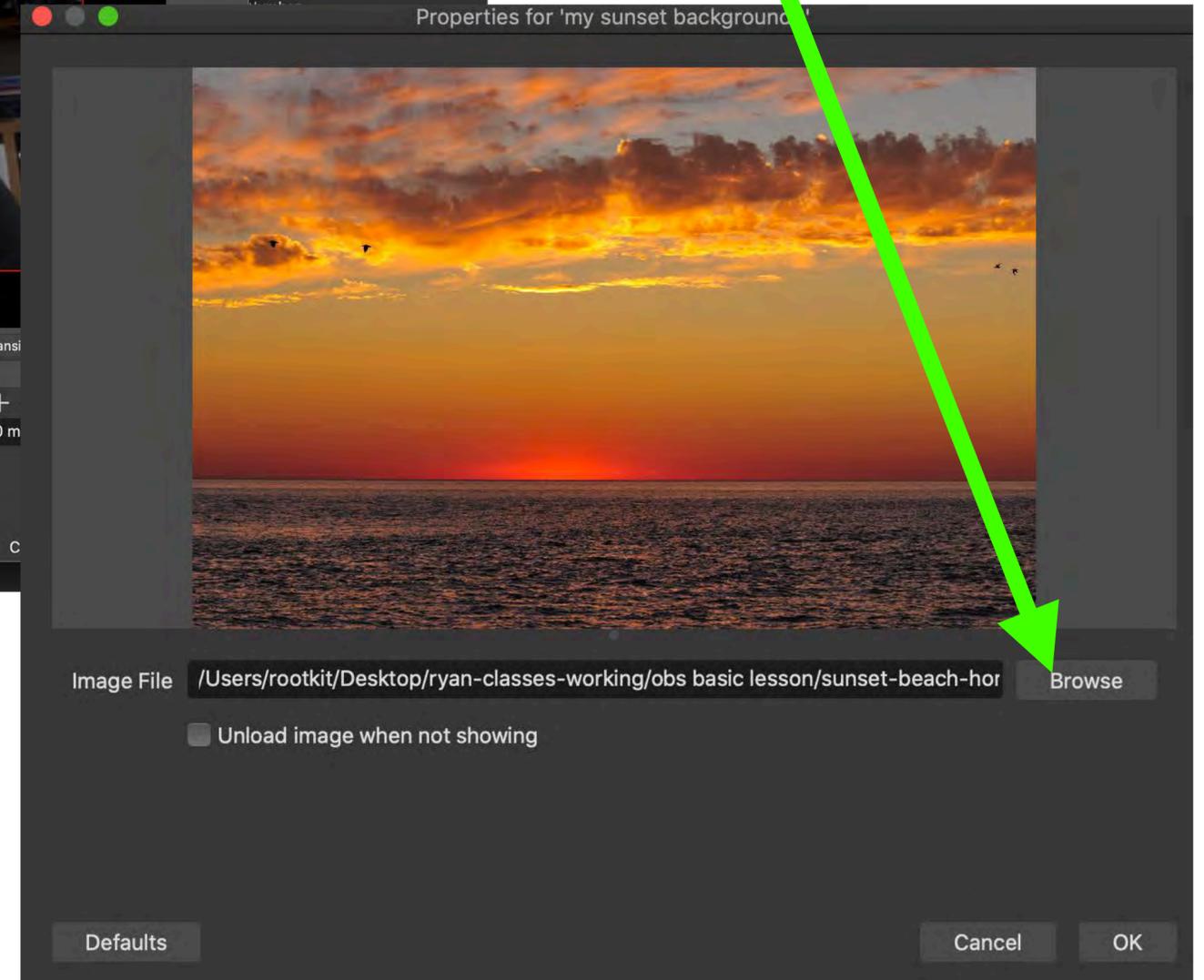


I dream of being here so I want this image as my background

I call the Source: 'my sunset background'



Click 'Browse' to navigate to your image and choose OK



Here I am, with *my sunset background!*

The screenshot displays the OBS Studio interface. The main preview window shows a sunset background with a video inset of a man waving. The interface includes a top title bar, a main preview area, and a bottom control panel with sections for Scenes, Sources, Audio Mixer, Scene Transitions, and Controls. The status bar at the bottom shows 'LIVE: 00:00:00', 'REC: 00:00:00', and 'CPU: 20.1%, 30.00 fps'.

OBS 25.0.8 (mac) - Profile: Untitled - Scenes: Untitled

Scenes: Scene, Scene 2, Scene 3

Sources: my laptop came, my sunset back, Window Captur

Audio Mixer: Desktop Audio (0.0 dB), Mic/Aux (0.0 dB)

Scene Transitions: Fade, Duration 300 ms

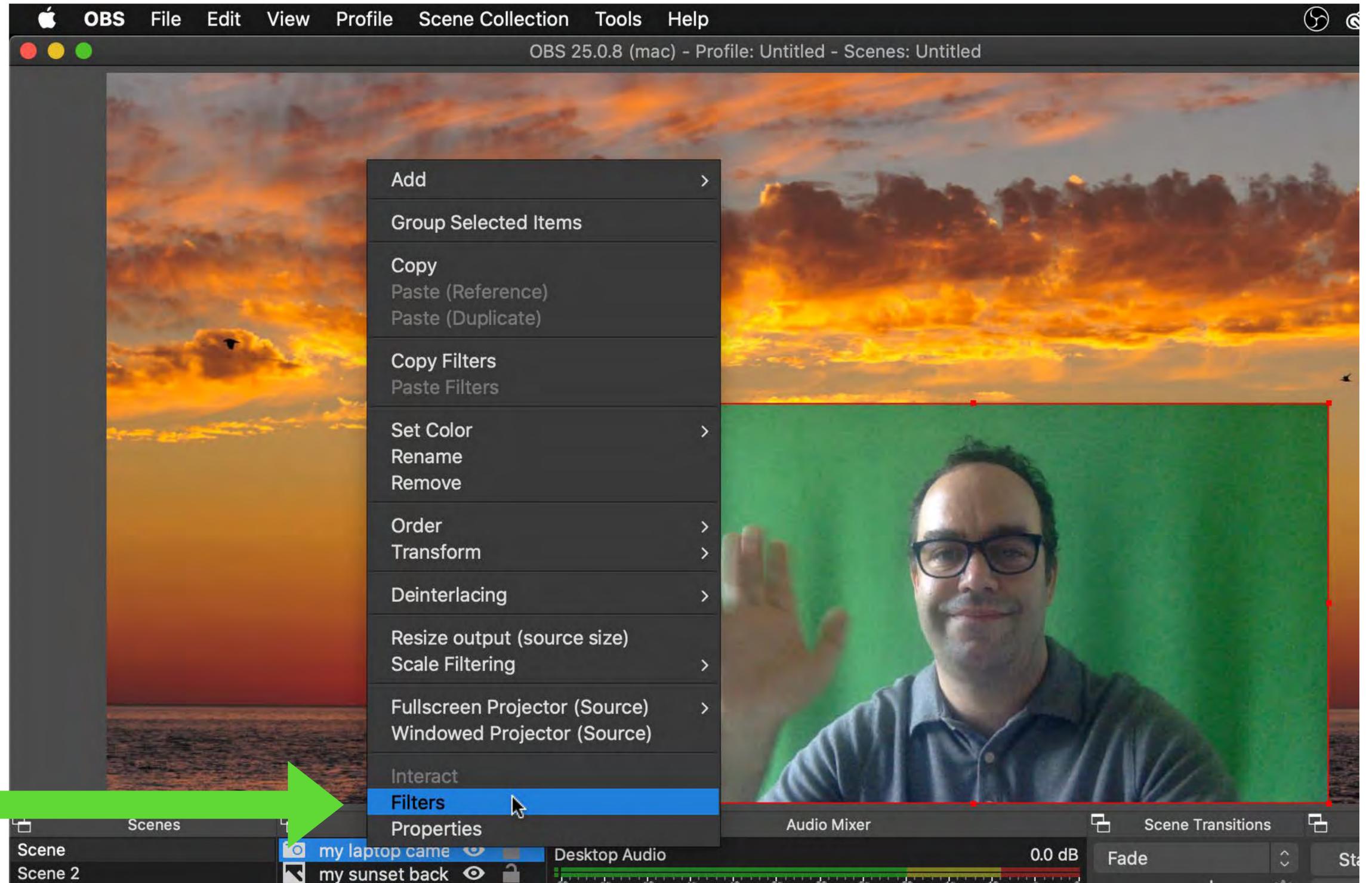
Controls: Start Streaming, Start Recording, Studio Mode, Settings, Exit

LIVE: 00:00:00 REC: 00:00:00 CPU: 20.1%, 30.00 fps

GreenScreen

(skip if you don't have one)

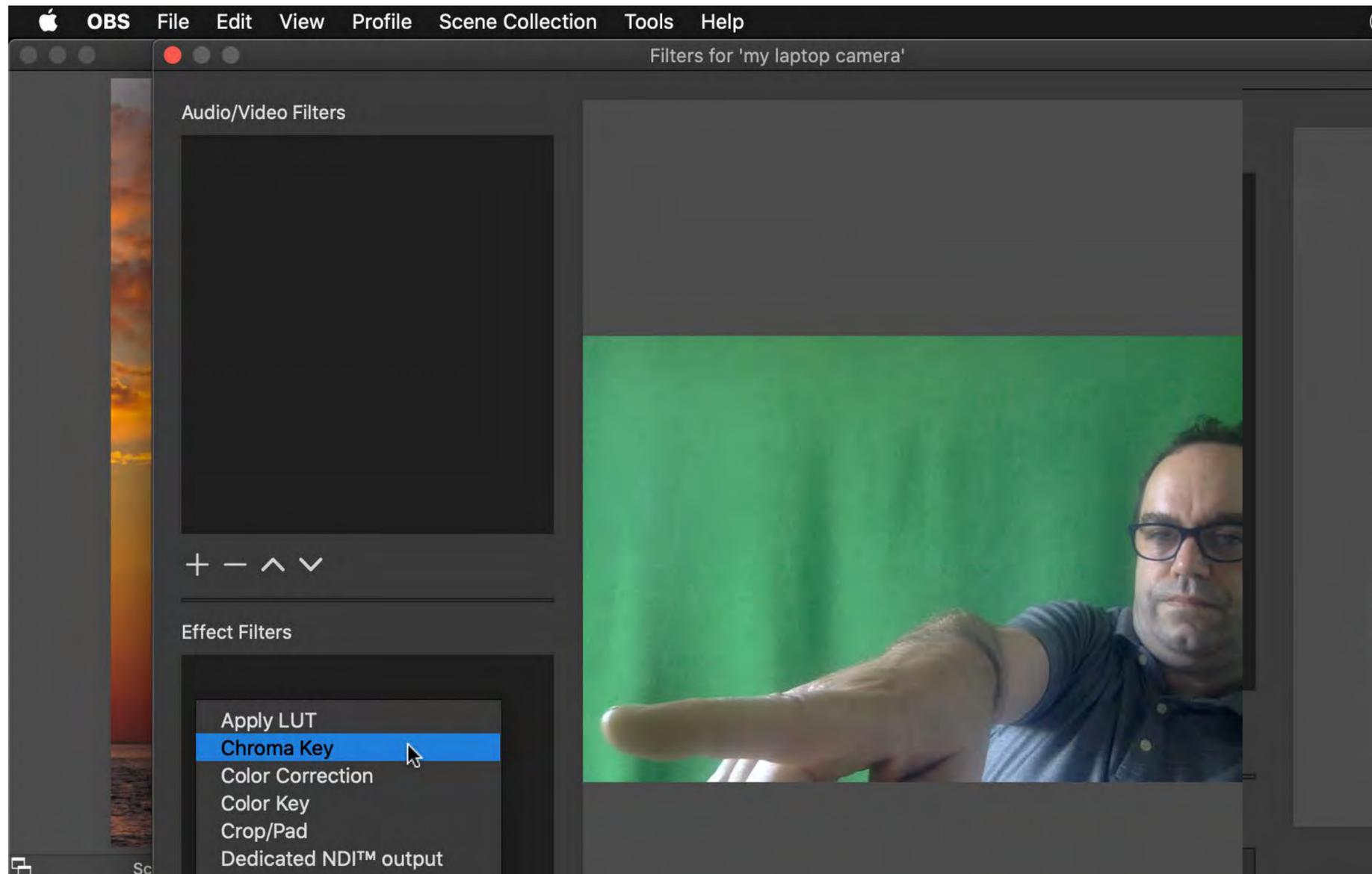
If you have a Green Screen you can now *key* out your background!



Right Click on your Web Camera box in the *OBS scene* mine is called 'my laptop camera'

Click '+' under 'Effect Filters' and choose 'Chroma Key'

choose the color to 'Key' out, in my case I am choosing Green!
Advanced: change the other settings on your Effect Filter: ChromaKey

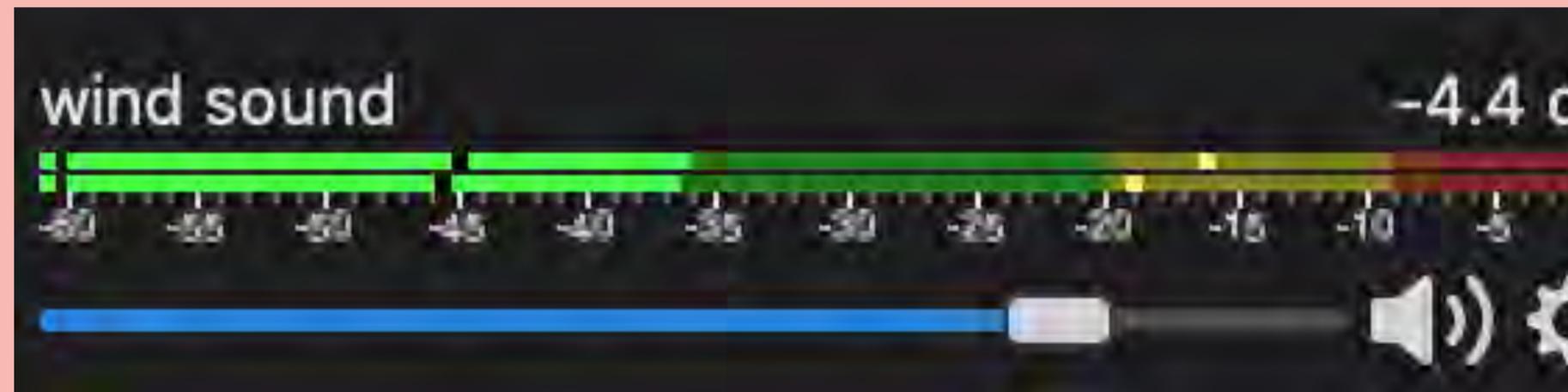


Click 'Close' when you are finished adjusting!

Sunset lasts forever!
You can also make a movie your background! Give it a try!



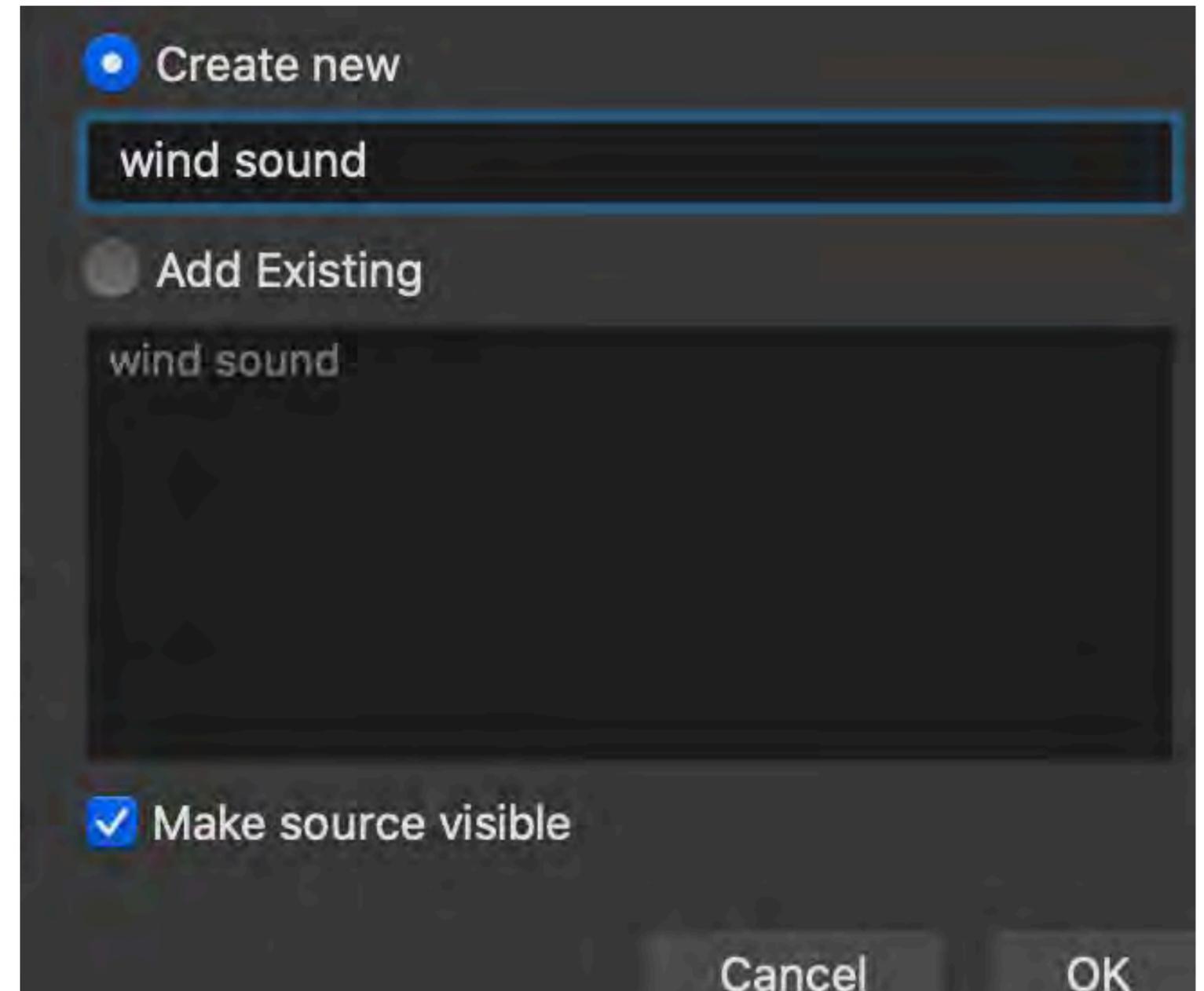
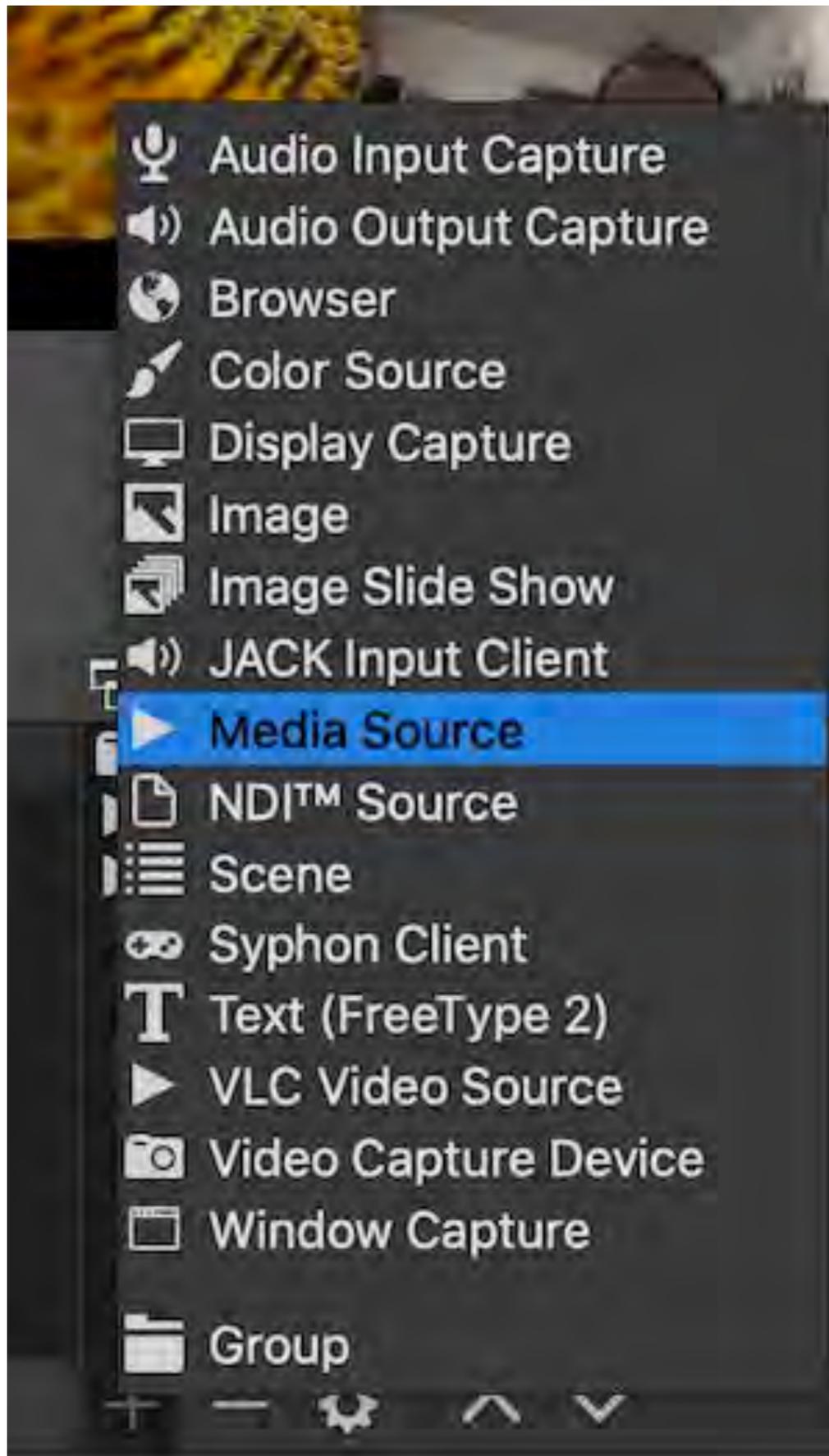
Let's play an audio file in our OBS scene



Click '+' under 'Sources' to add a new source to your scene

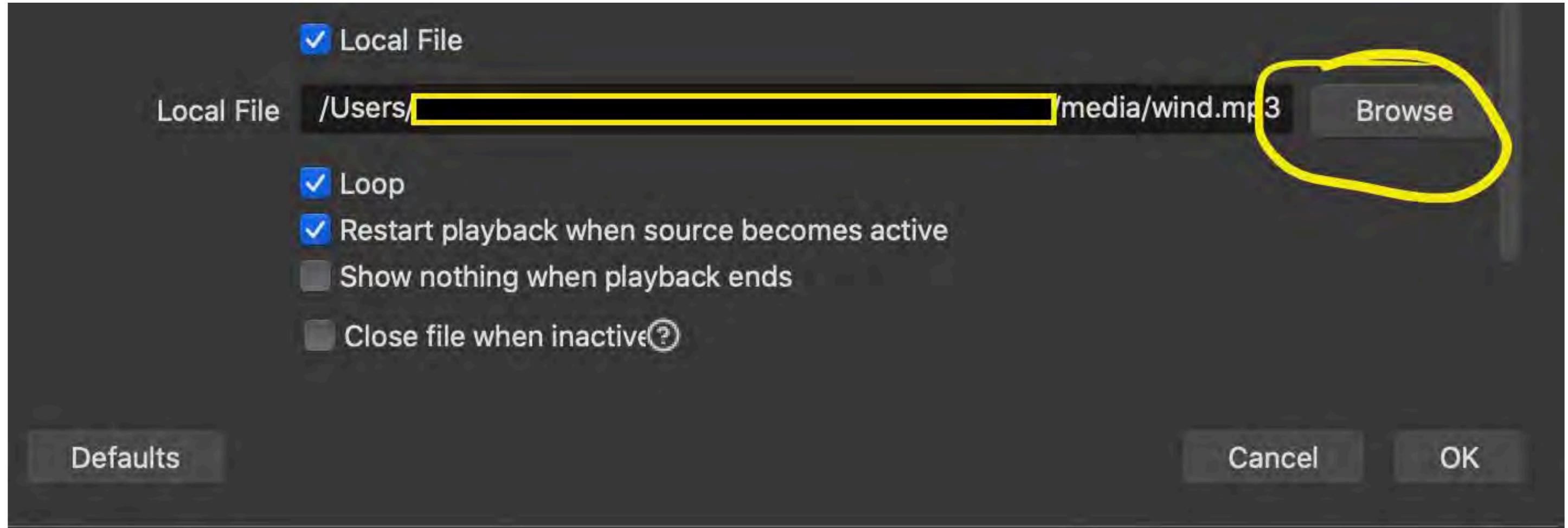
add a Media Source

I have a cool wind sound that I want to play in my scene,
I will title it 'wind sound!' and click OK



Click **Browse** to locate your audio file!

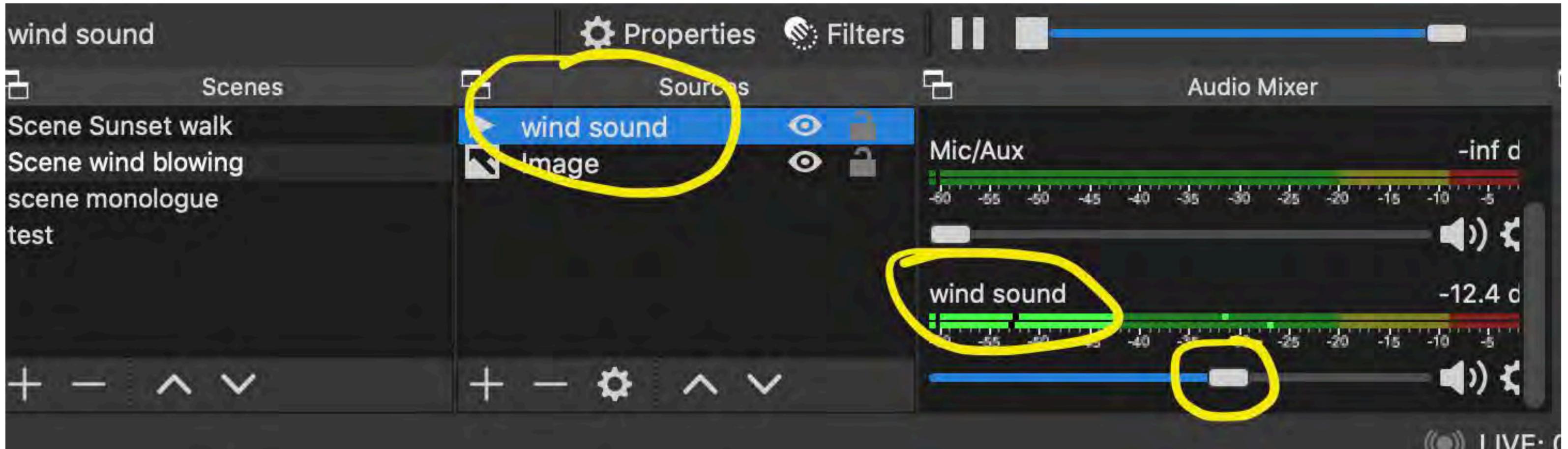
Note: use .wav or .mp3 files



I set my audio file to Loop

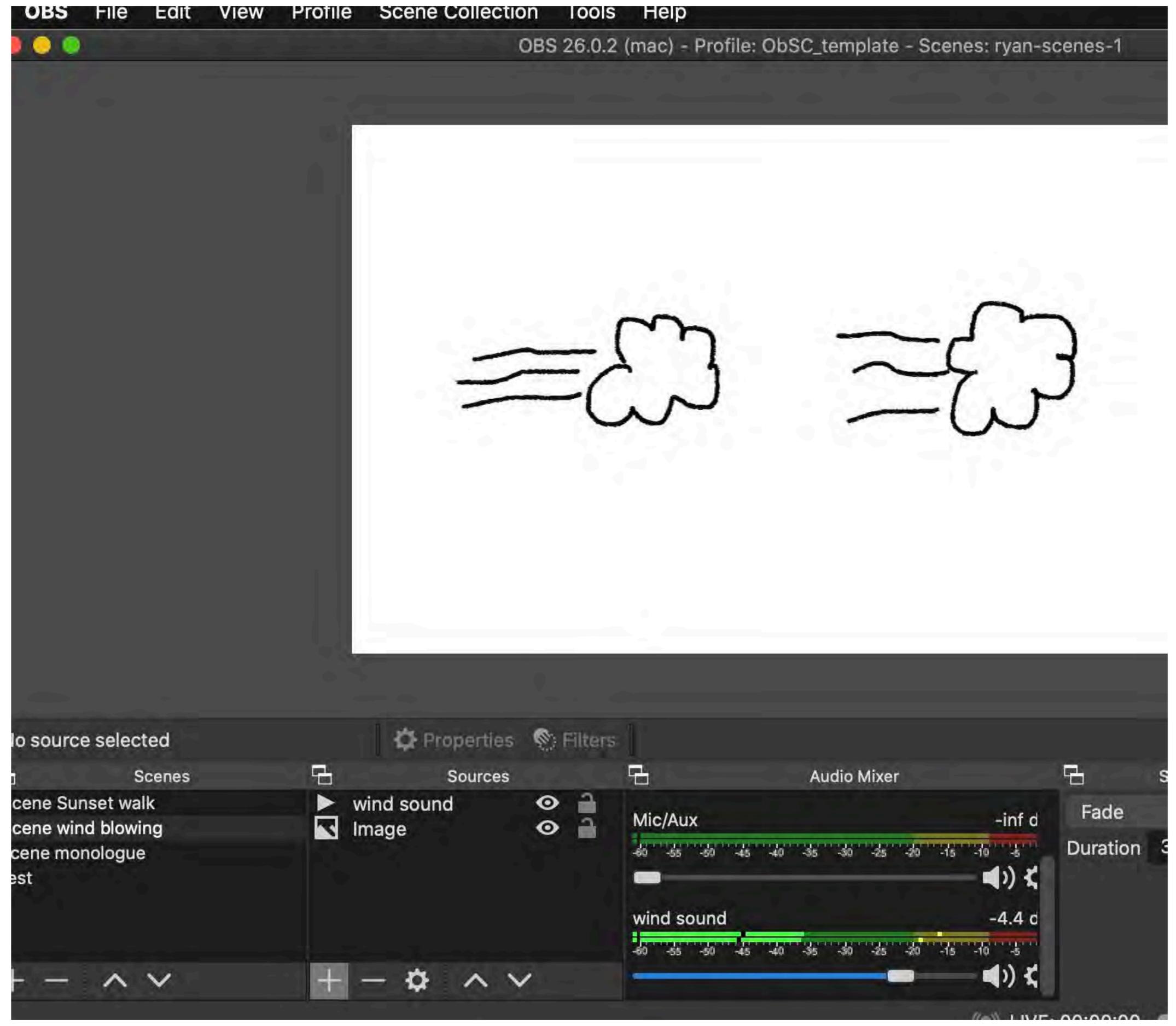
Note: use .wav or .mp3 files

Look in your Audio Mixer and locate your new sound file.
Mine is called 'wind sound'
use the slider circled below to adjust the level.

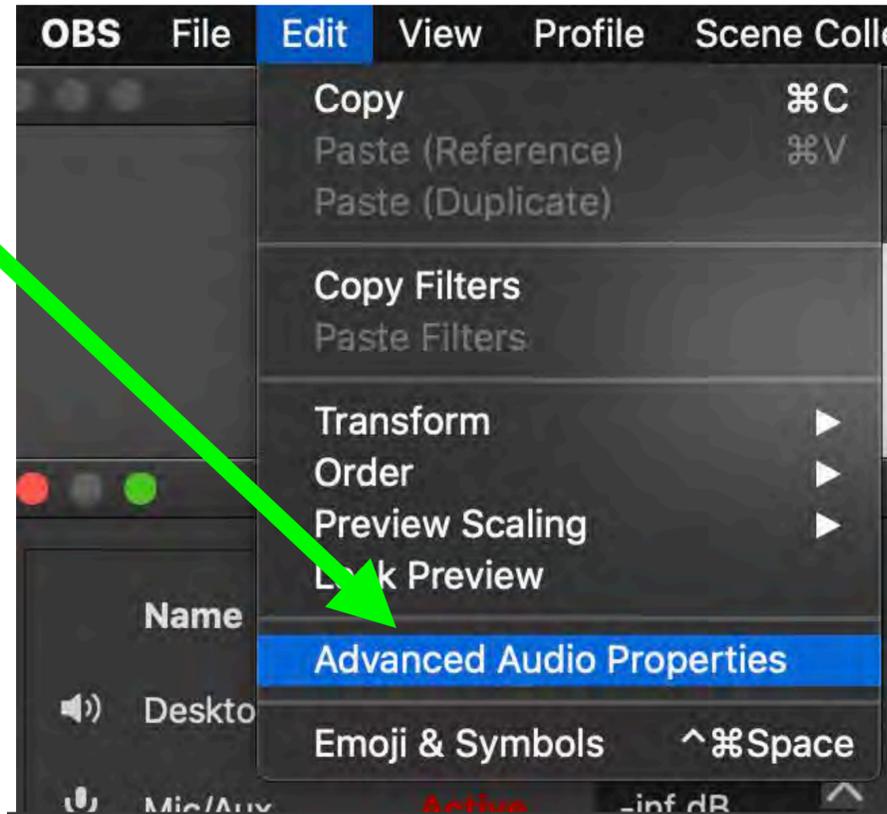


I made a scene called
'scene wind blowing'

I also have an
image of clouds

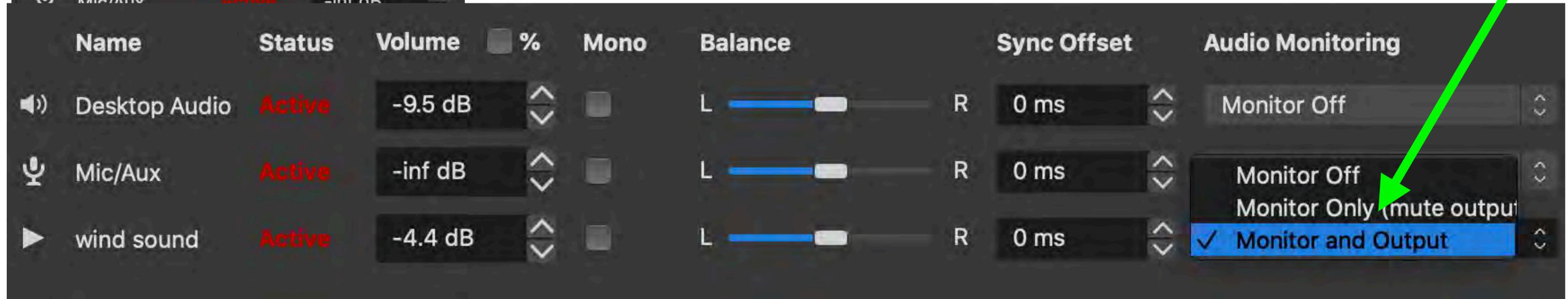


To Monitor your output (hear what you are playing!)
Go to **Edit > Advanced Audio Properties**

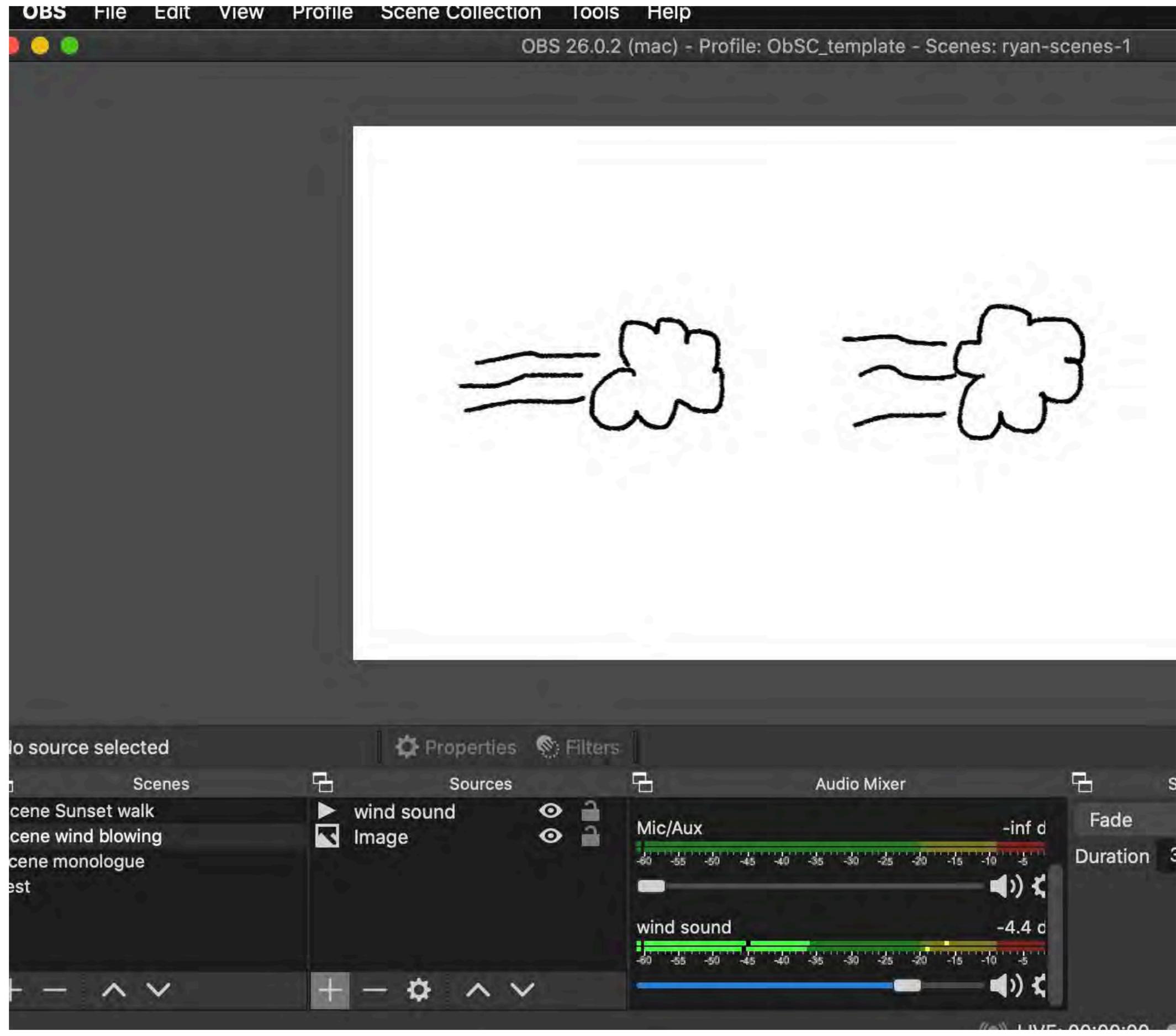


Locate your Audio Input
here we see 'wind sound'

Choose Monitor and Output



**back to your
scene, do you
hear your
sound?**

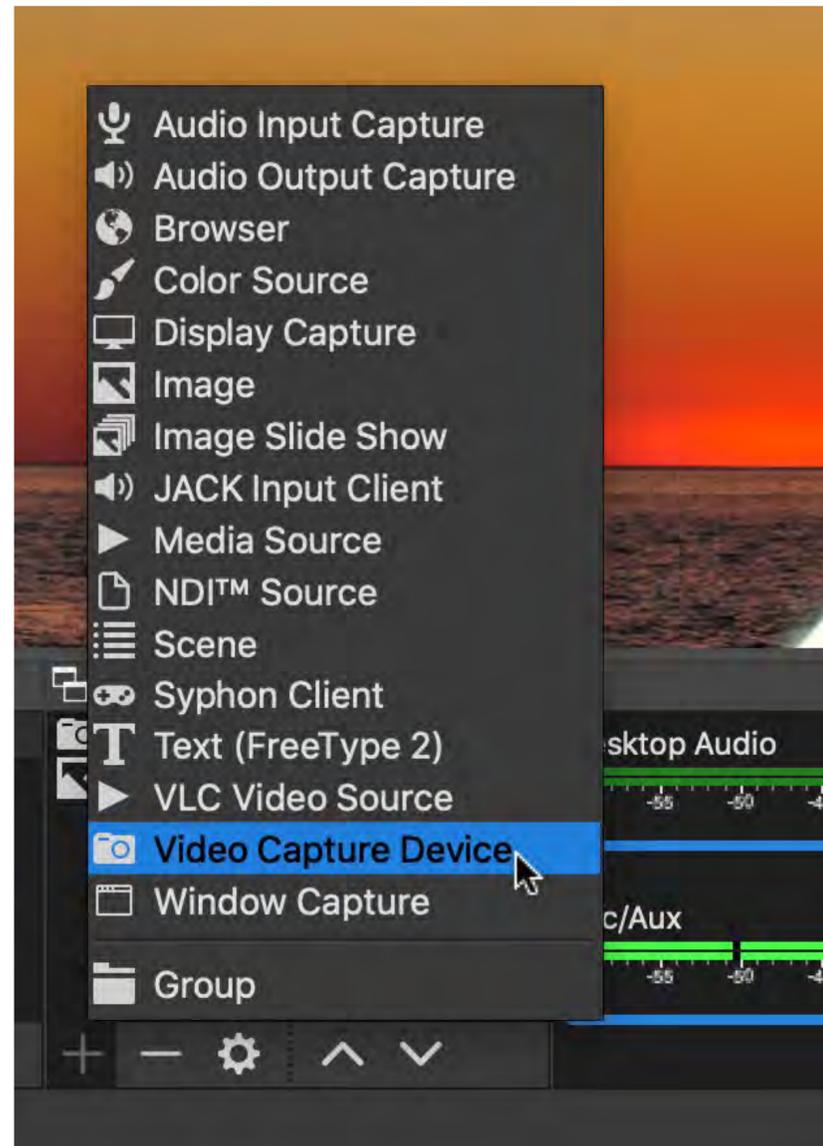


iPhone capture

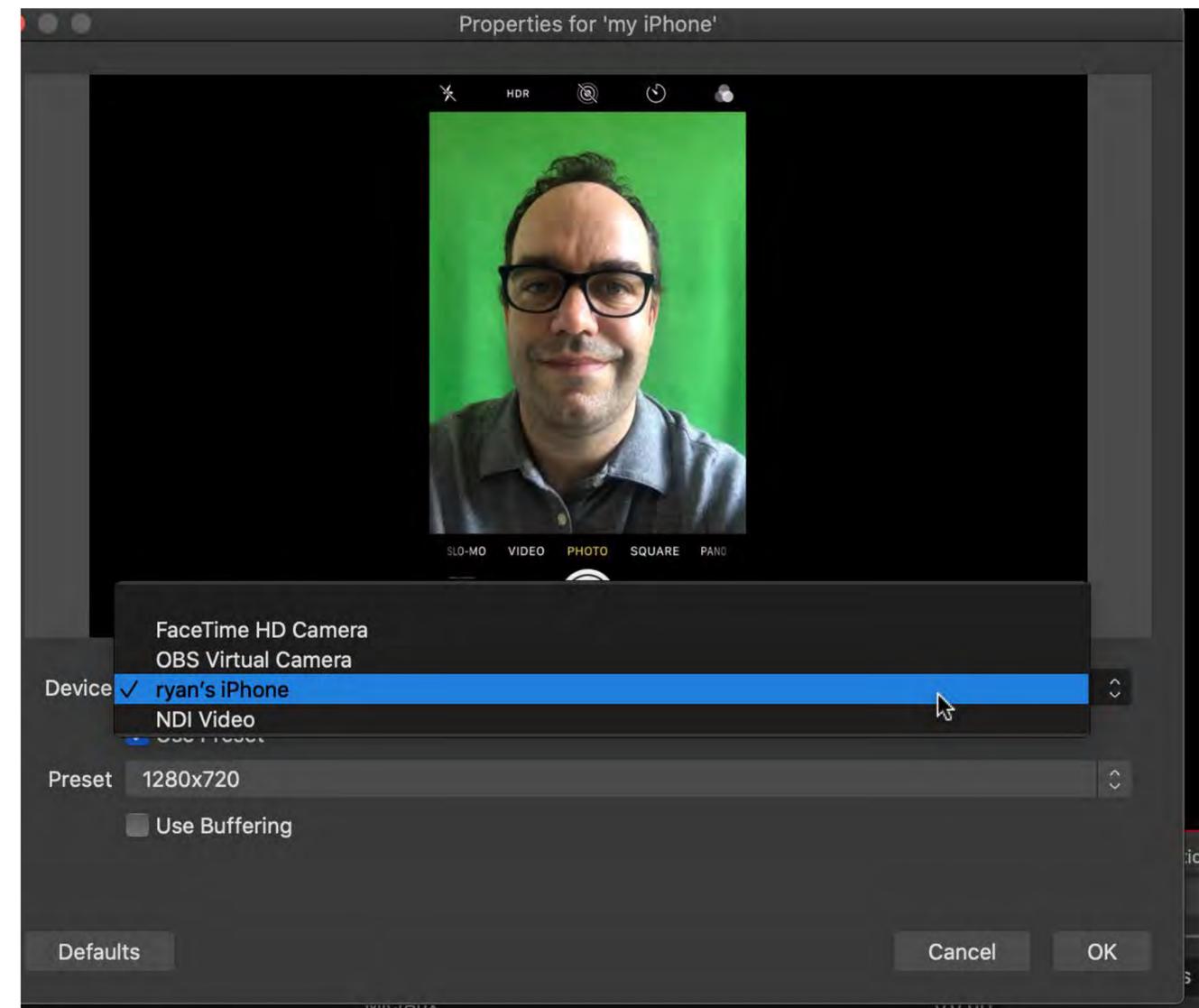
you can capture other windows, Web Browsers, and more by adding sources!

Let's add my iPhone to OBS, it is connected to my laptop with a lightning-to-USB charge cable!

click +
& make a new 'Video Capture Device'

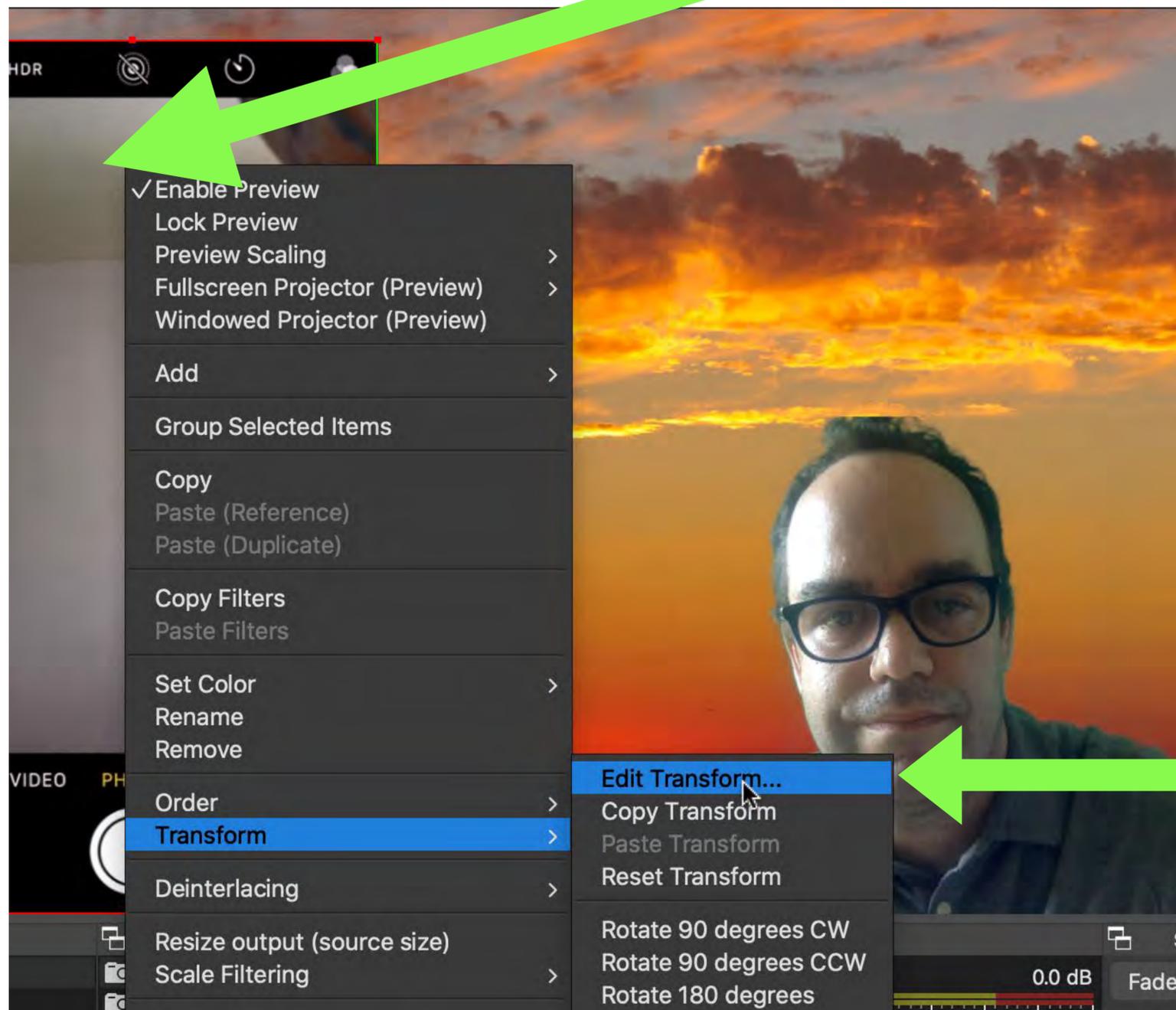


name & then locate your device from the dropdown menu
click 'OK'

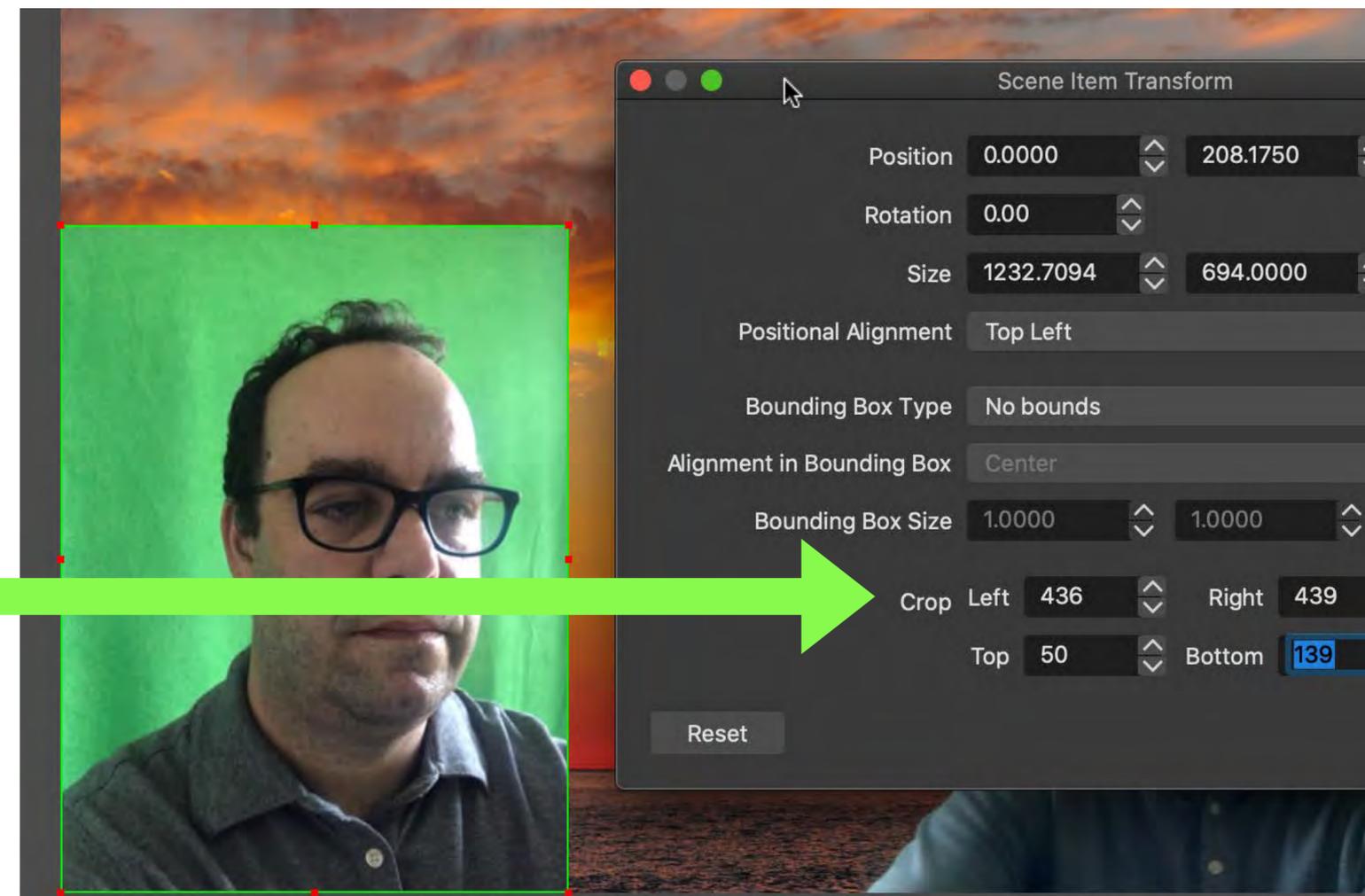


NOTE: I am running the camera app with the rear camera

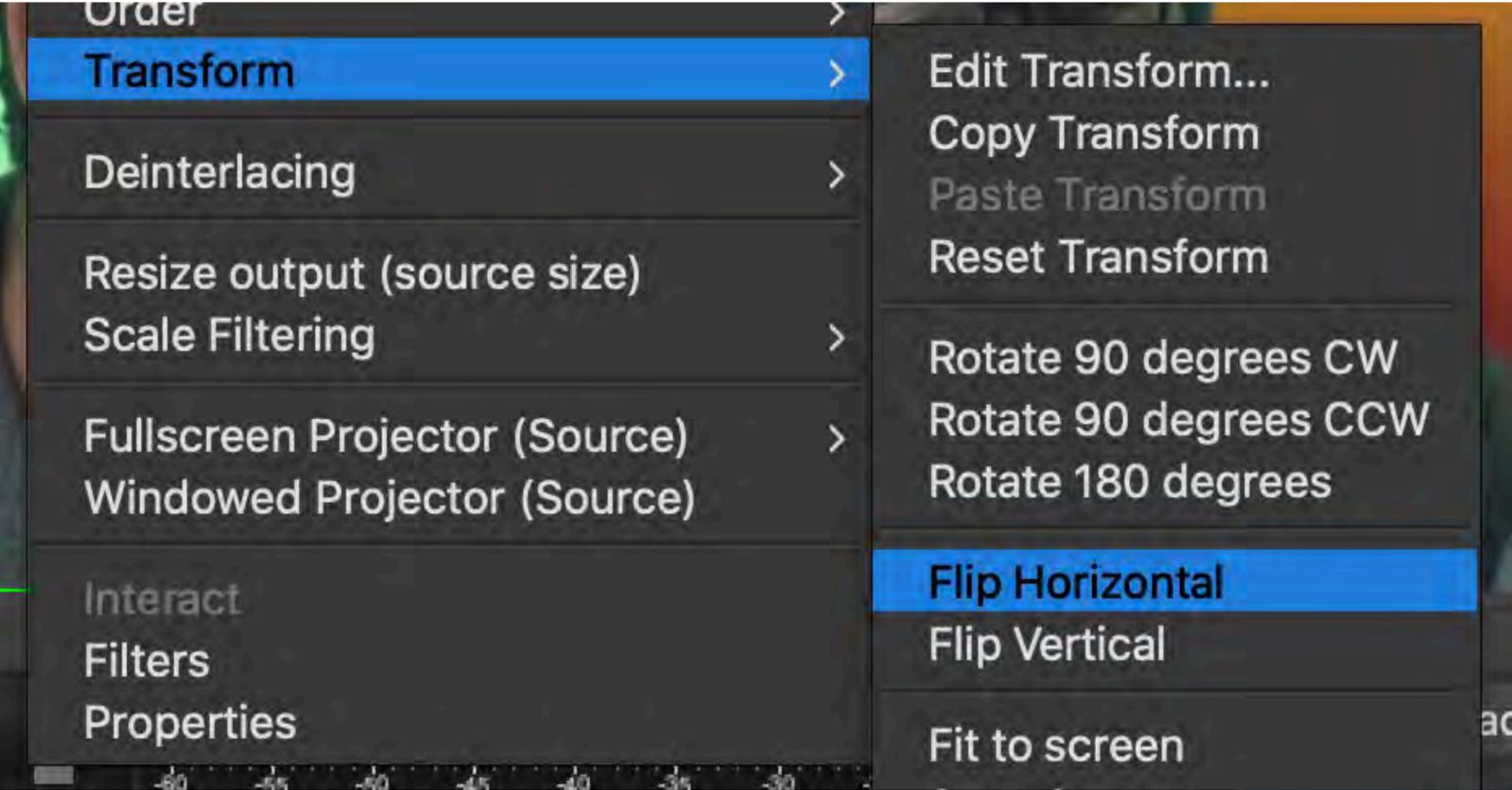
**Right Click your phone image in the main OBS window and choose:
Transform > Edit Transform**



use the crop at the bottom of the Scene item Transform window to crop your image as desired and click Close when finished



try *flipping* your image as well for fun!



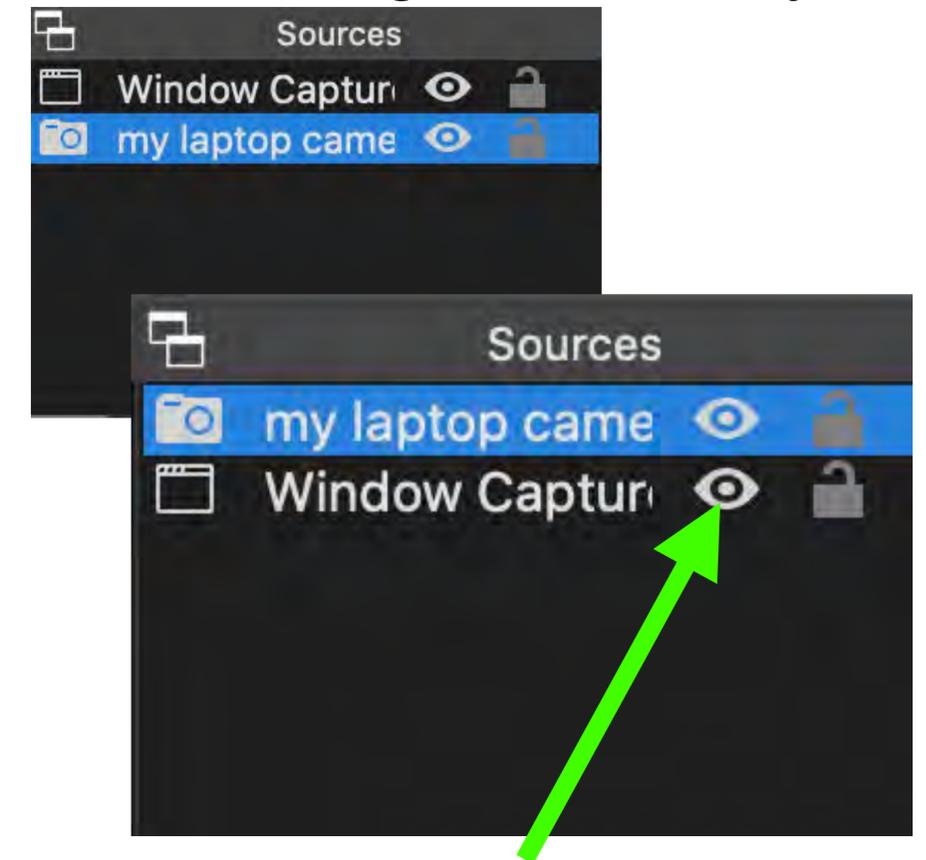
It's me and the other me
I need to apply that
Chromakey Filter again!



Summer 2020, a sunset moment with myself



click and drag to reorder layers



click 'EYE' to hide layer



NOTE the order here, these are the layers, Sunset is at the bottom, which means it is in the background
click and drag to change the arrangement of the Layers

WINDOW CAPTURE

CLICK +
TO ADD A
NEW
SOURCE
TO YOUR
SCENE

CHOOSE
WINDOW
CAPTURE!

The image shows the OBS Studio interface on a Mac. The main preview window displays a man with glasses waving his hand. A red rectangular selection box is overlaid on the preview. A context menu is open over the selection box, listing various source types. The 'Window Capture' option is highlighted in blue. The interface includes a top menu bar with 'OBS', 'File', 'Edit', 'View', 'Profile', 'Scene Collection', 'Tools', and 'Help'. The title bar reads 'OBS 25.0.8 (mac) - Profile: Untitled - Scenes: Untitled'. The bottom panel shows the 'Scenes' and 'Sources' panels. The 'Sources' panel has a '+' button and a list of sources, with 'my laptop came' selected. The 'Scene Transitions' and 'Controls' panels are also visible. The status bar at the bottom shows '0:00', 'REC: 00:00:00', and 'CPU: 20.9%, 30.00 fps'.

- Audio Input Capture
- Audio Output Capture
- Browser
- Color Source
- Display Capture
- Image
- Image Slide Show
- JACK Input Client
- Media Source
- NDI™ Source
- Scene
- Syphon Client
- Text (FreeType 2)
- VLC Video Source
- Video Capture Device
- Window Capture**
- Group

CHOOSE your WINDOW, in my case I have an Application called 'Max' open, with a window called 'Untitled7'

- Audio Input Capture
- Audio Output Capture
- Browser
- Color Source
- Display Capture
- Image
- Image Slide Show
- JACK Input Client
- Media Source
- NDI™ Source
- Scene
- Syphon Client
- Text (FreeType 2)
- VLC Video Source
- Video Capture Device
- Window Capture**
- Group

The screenshot shows the OBS Studio interface. On the left, the 'Sources' list has 'Window Capture' selected. The main preview window shows a scene with three objects: 'give the object an instruction', 'hello world message box, has rounded corners', and 'print max object has square corners'. A 'max console' window on the right shows the output: 'print • hello world' repeated four times. A 'Window' menu is open, listing various system windows. A green arrow points from the text above to the '[Max] Untitled7' entry in the window list.

Properties for 'Max'

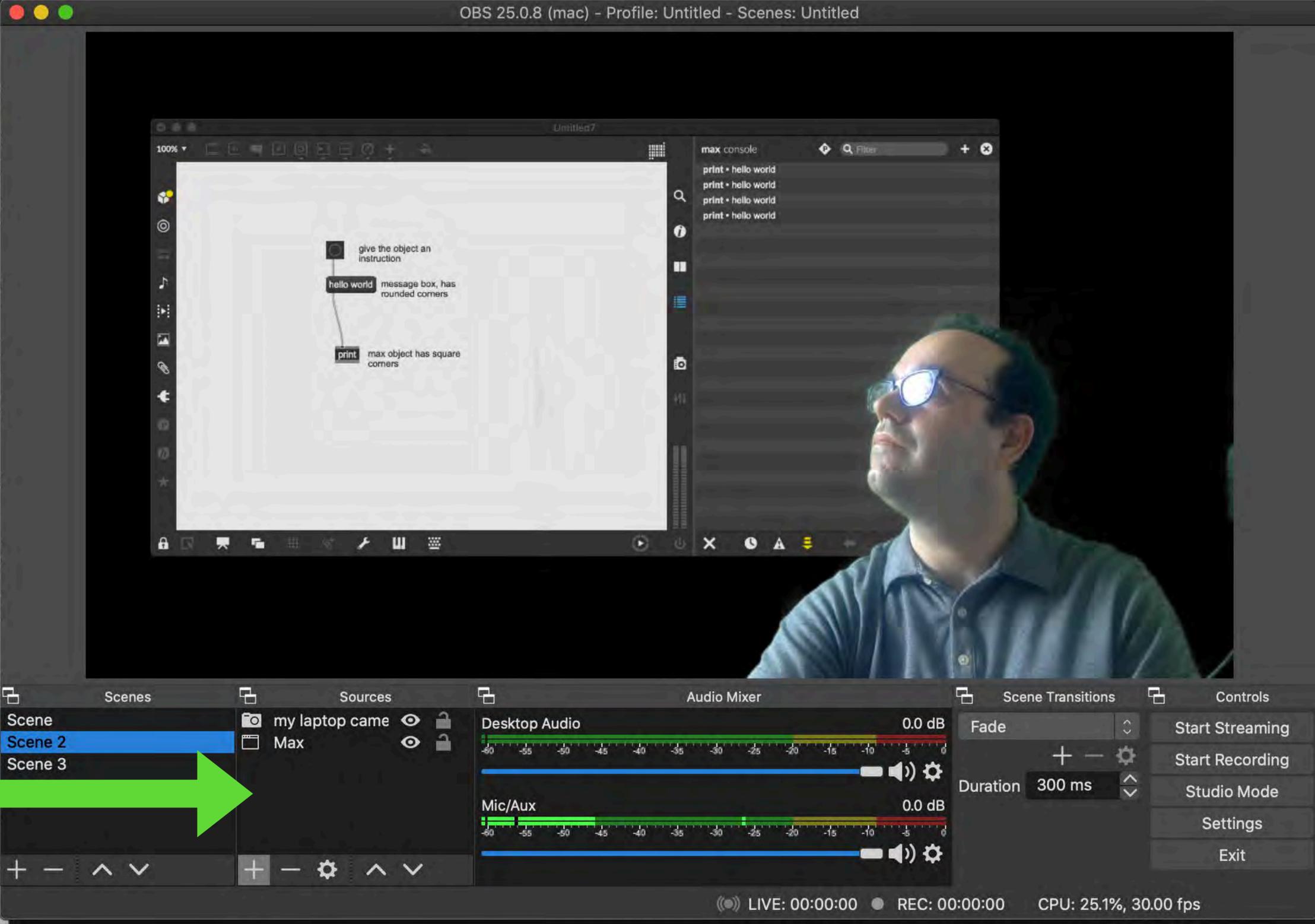
max console

```
print • hello world
print • hello world
print • hello world
print • hello world
```

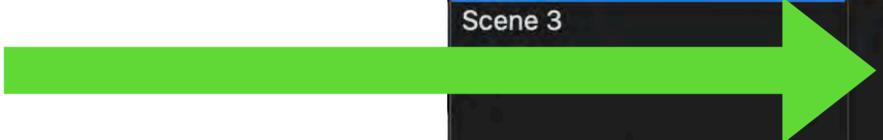
Window

- [Creative Cloud] Item-0
- [Dock] Desktop Picture - Duck.png
- [Finder] Movies
- [Firefox] Inbox - Outlook Web App, light version
- [Google Chrome] g... screen into keynote at DuckDuckGo
- [Keynote] obs-bas... lesson.key
- [Max] Untitled7**
- [OBS] Item-0
- [OBS] OBS 25.0.8 (mac) - Profile: Untitled - Scenes: Untitled
- [OBS] Properties for 'Max'
- [Preview] Screen Shot 2020-08-10 at 12.57.39 PM.png
- [Spotlight] Item-0

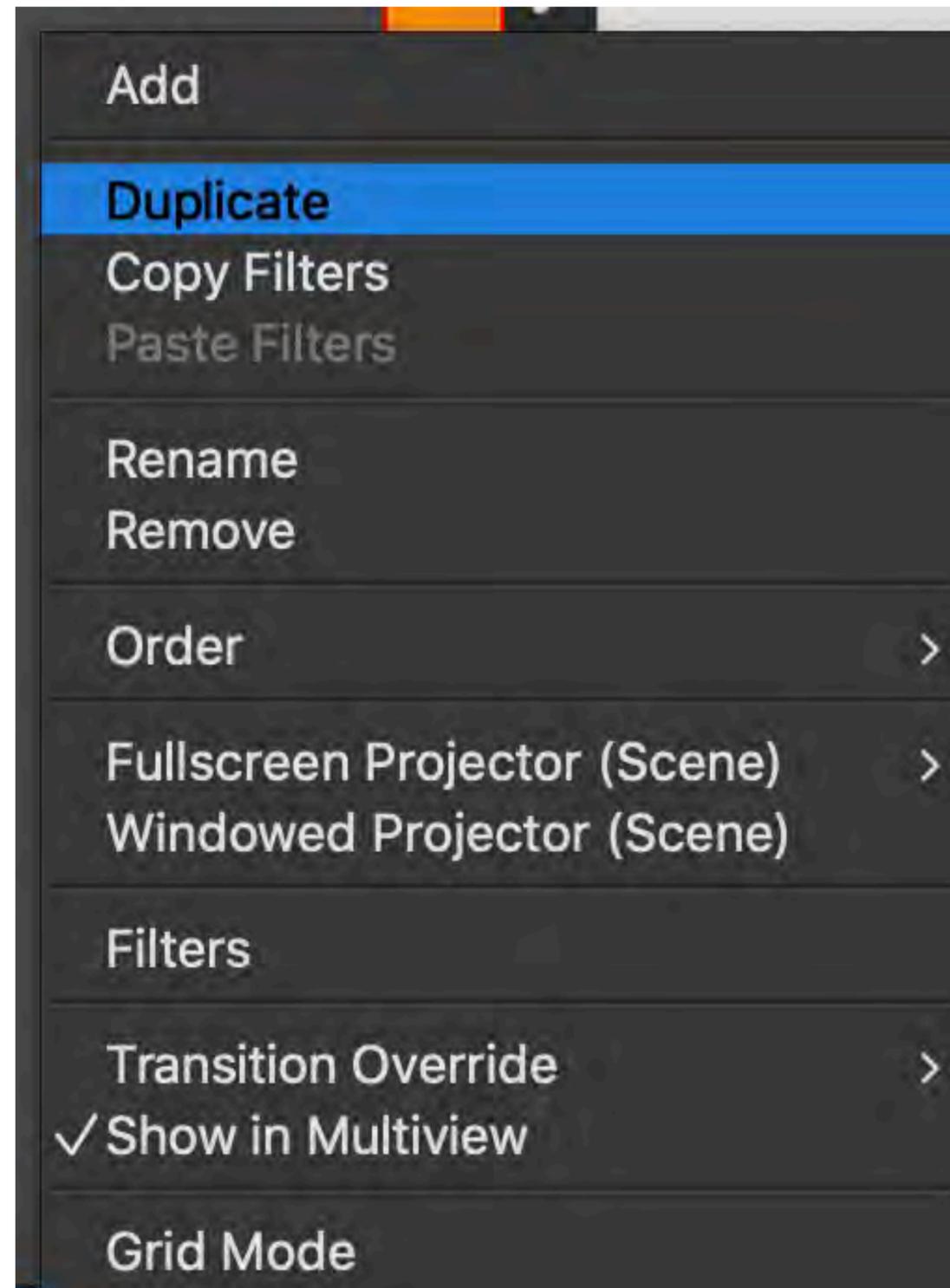
I resized the window in OBS using the *drag-the-corners* method. Here I am teaching my class about Max, the window responds in real time!



NOTICE: I made a new scene here by clicking the + for 'scene 2' I added these different sources



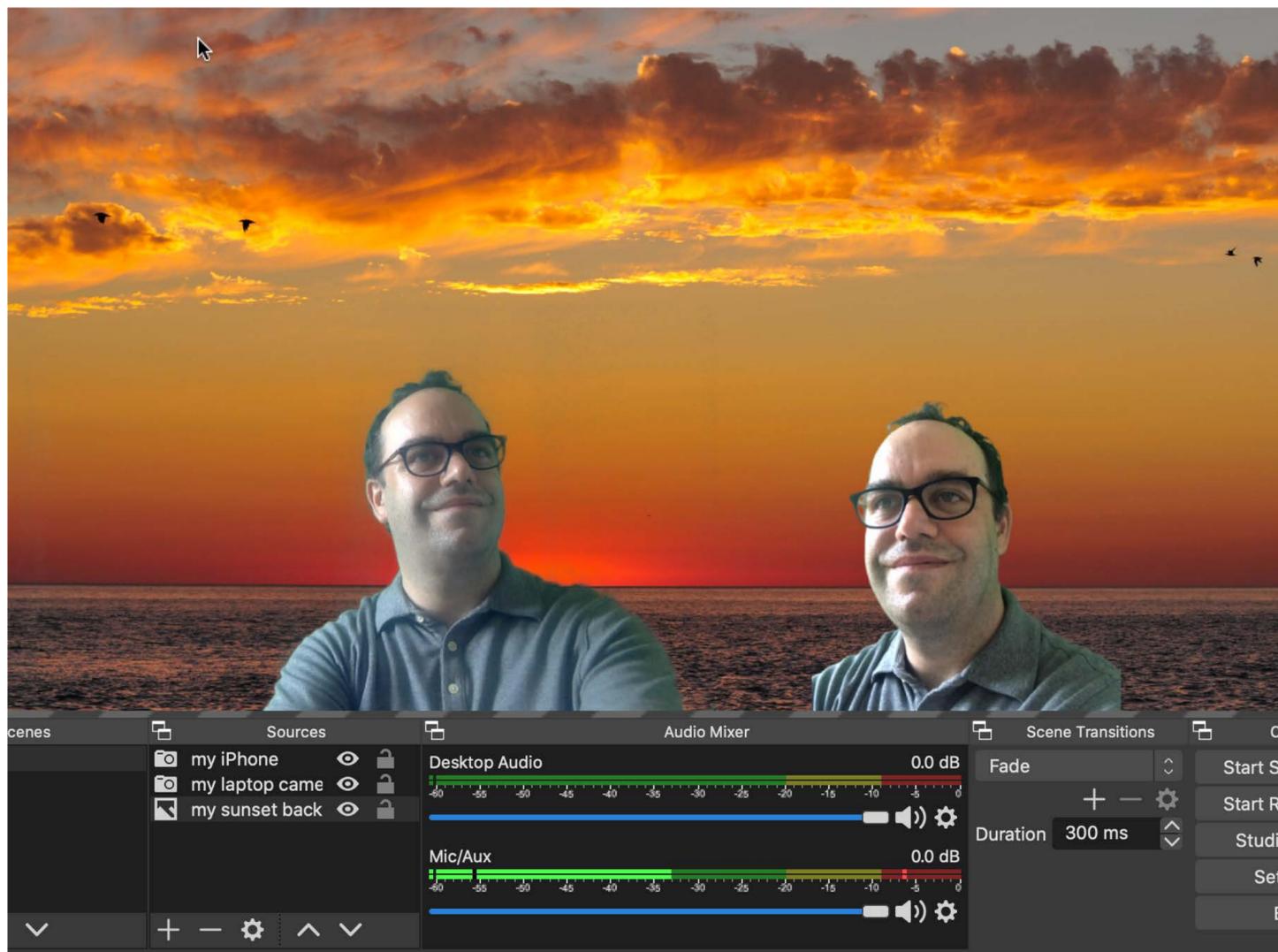
Hint: Right Click your Scene and choose Duplicate!



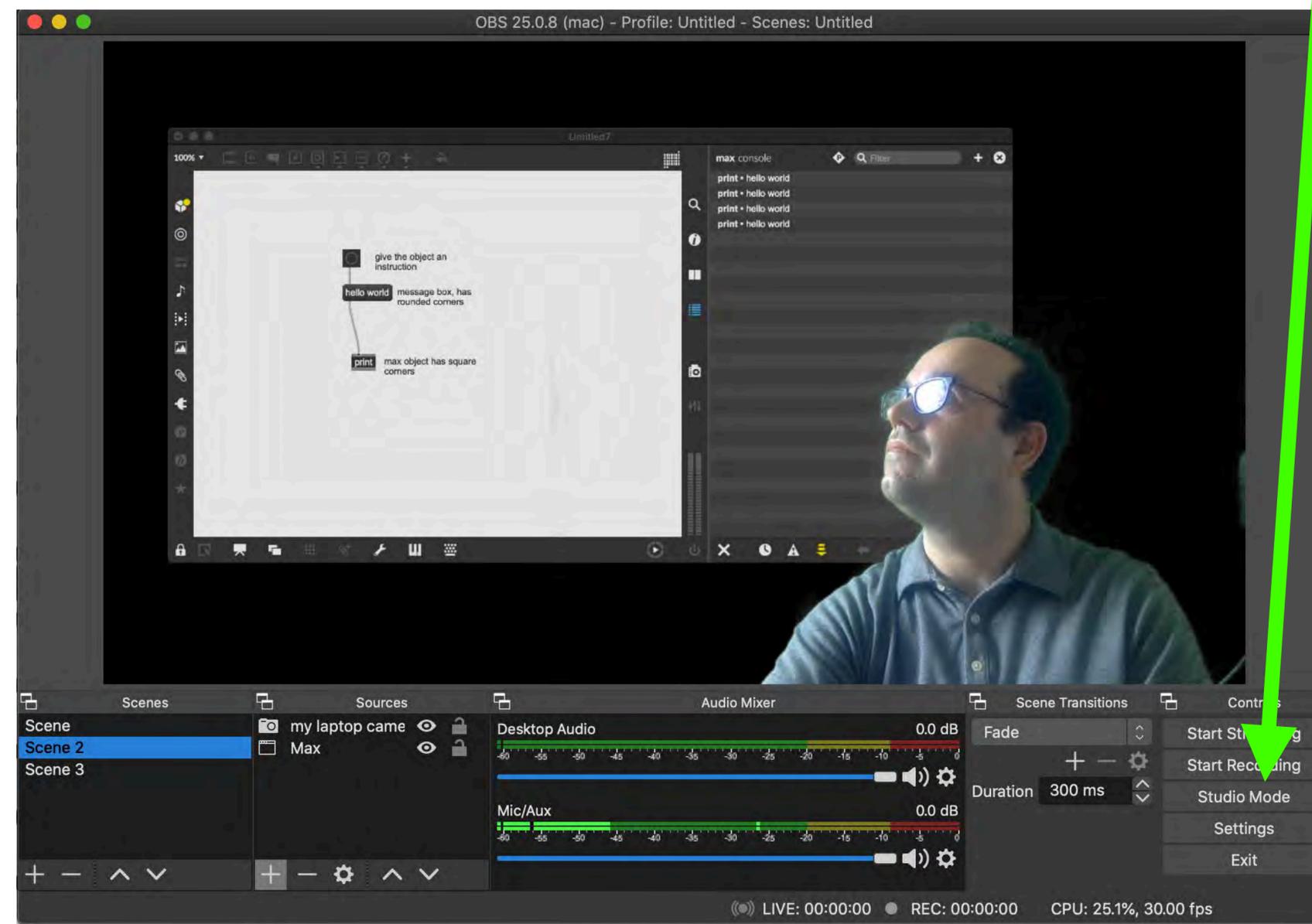
Studio Mode

We can switch between scenes with various *transitions*.
Here we will use *fade* and *cut*

This is our Scene 1



This is our Scene 2

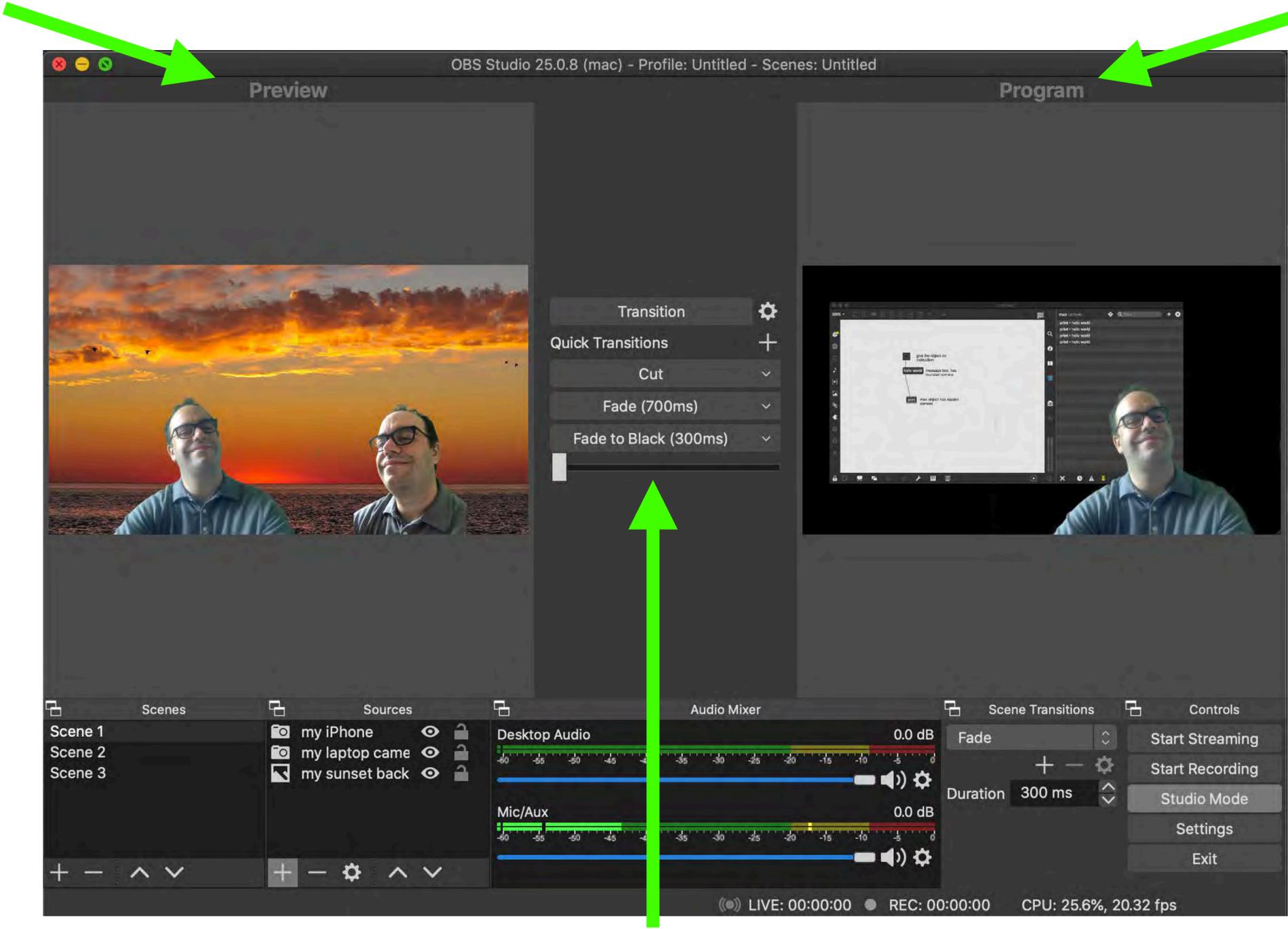


Click on Studio mode to see the Current Scene and the Preview Scene!
(think of a DJ cueing up Records)

Studio Mode

Preview is what is 'on deck'

Program is what goes out to your stream or recording

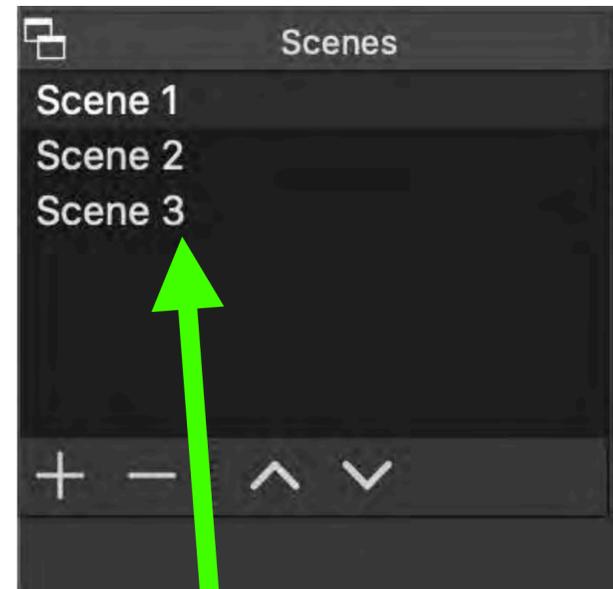


click on these buttons to Toggle between the preview and the Program

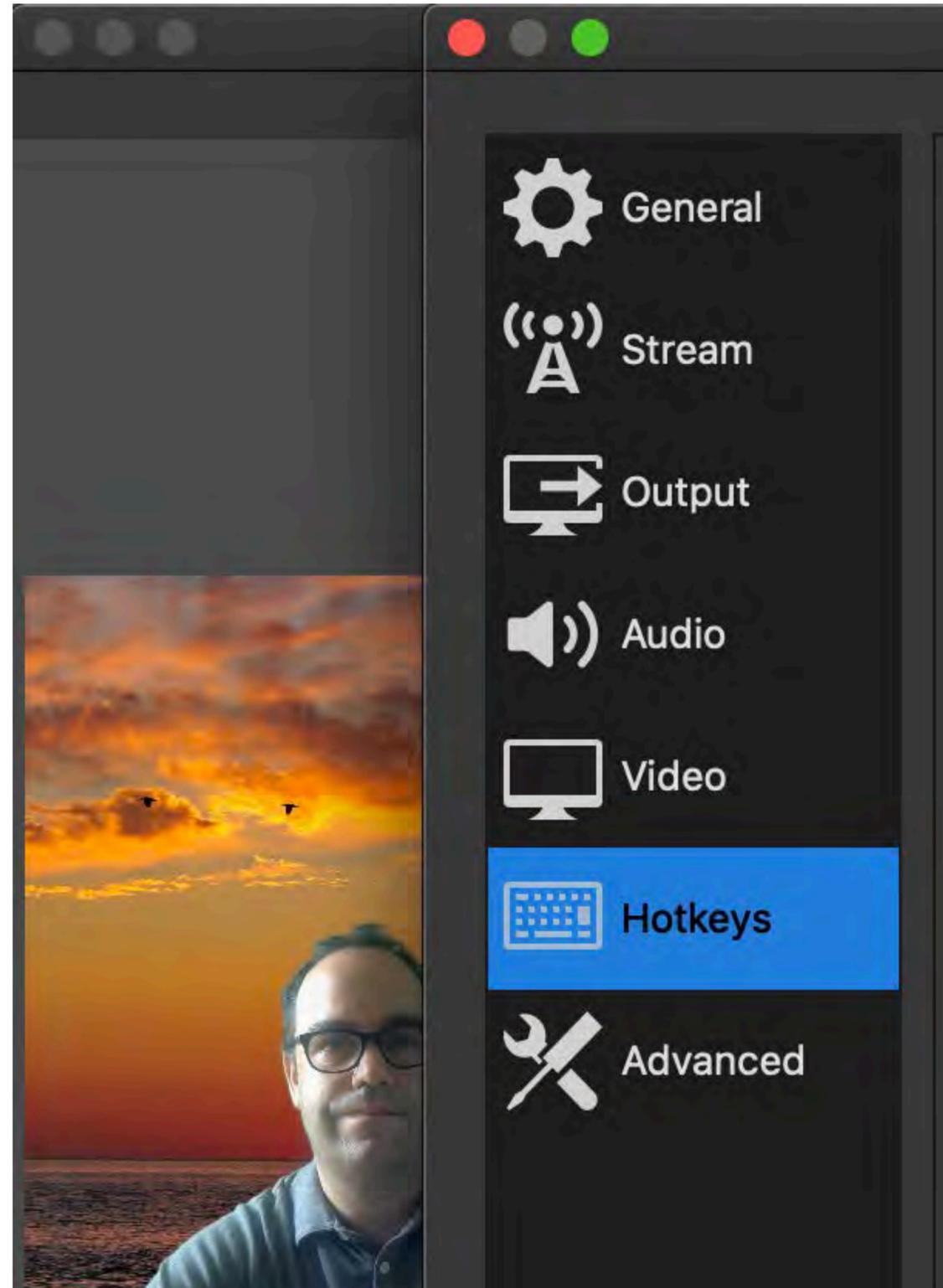
Studio Mode

we can also make Hotkeys to get rid of the silly mouse click!

want to switch which Scene is on deck in the preview?

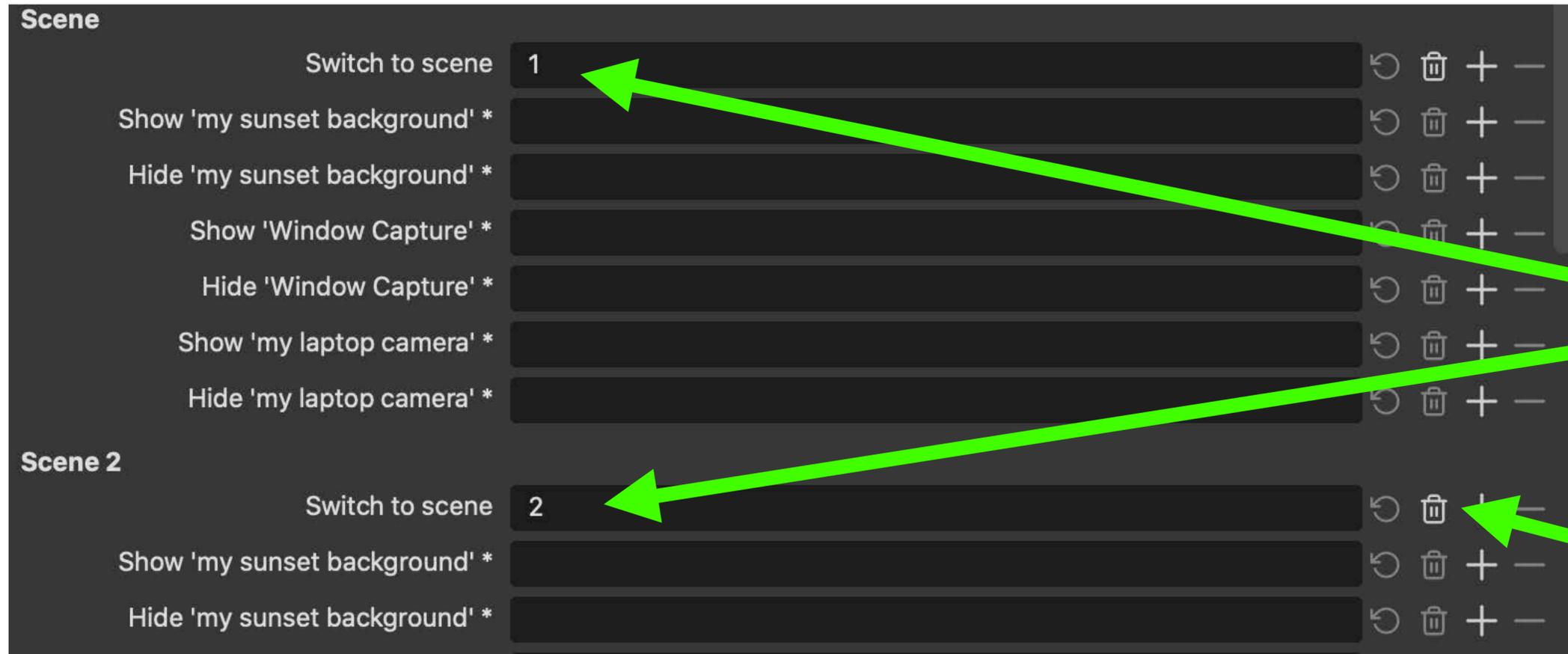


manually choose
click on the scene!



Under OBS >
Preferences
CHOOSE:
'Hotkeys'

Hotkeys: assign keystrokes to control your scenes and transitions and more

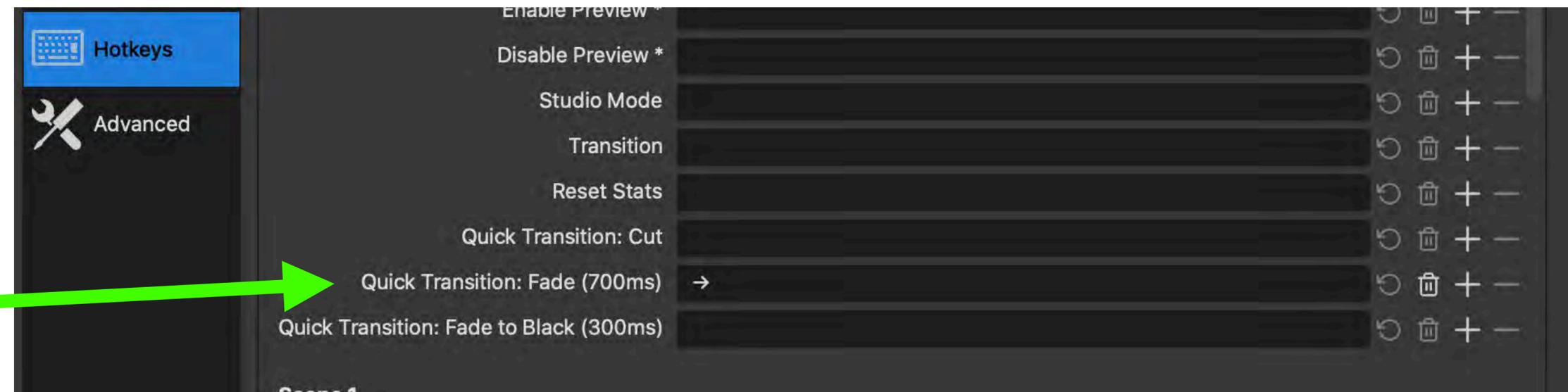


towards the bottom there is an option for 'Scenes' I entered keyboard 1 & 2 for each scene, respectively

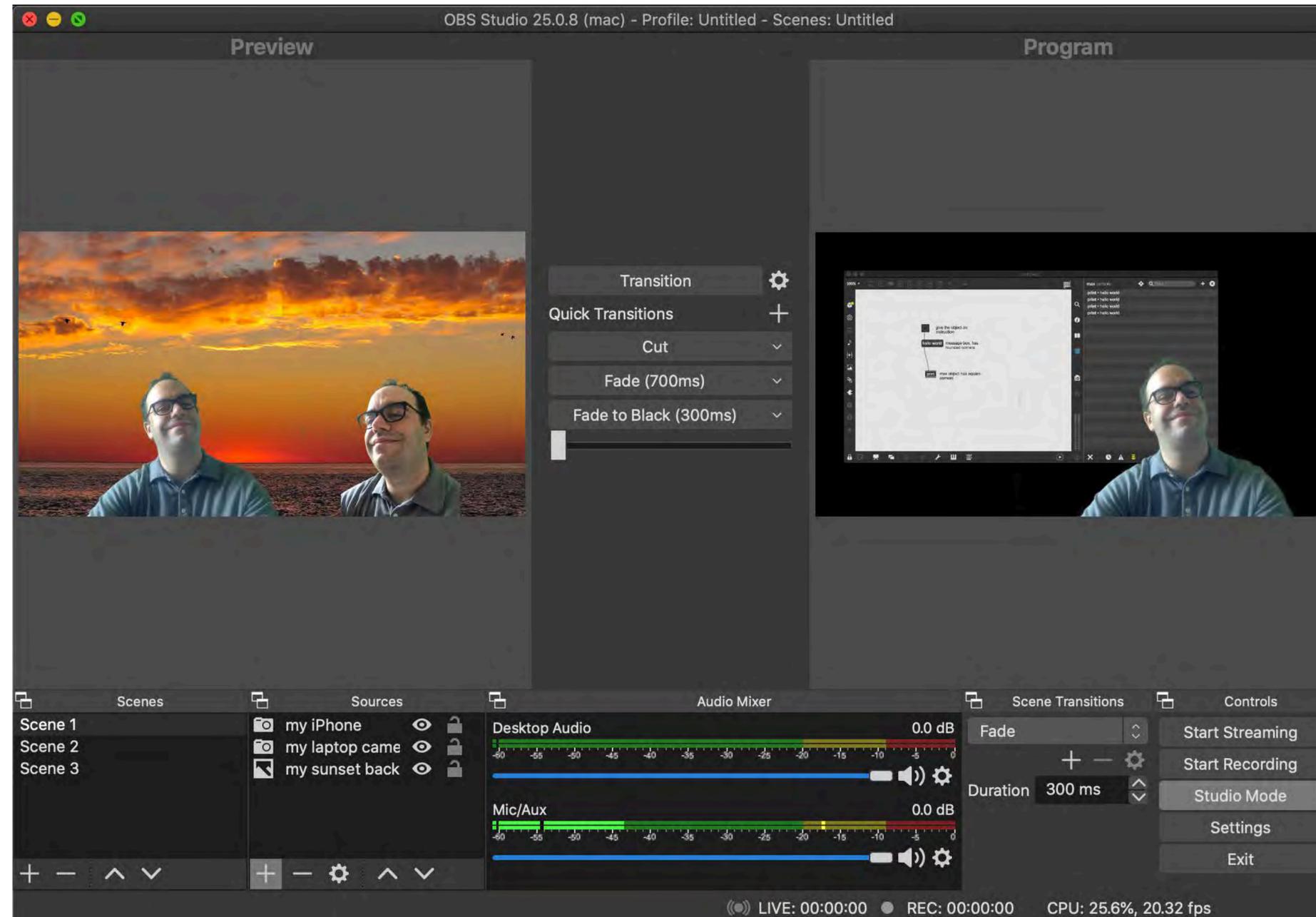
Click 'OK'

To remove just choose the little trashcan!

EXTRA: I ALSO ADDED A RIGHT ARROW KEY TO THE QUICK 700MS FADE TRANSITION



Studio Mode



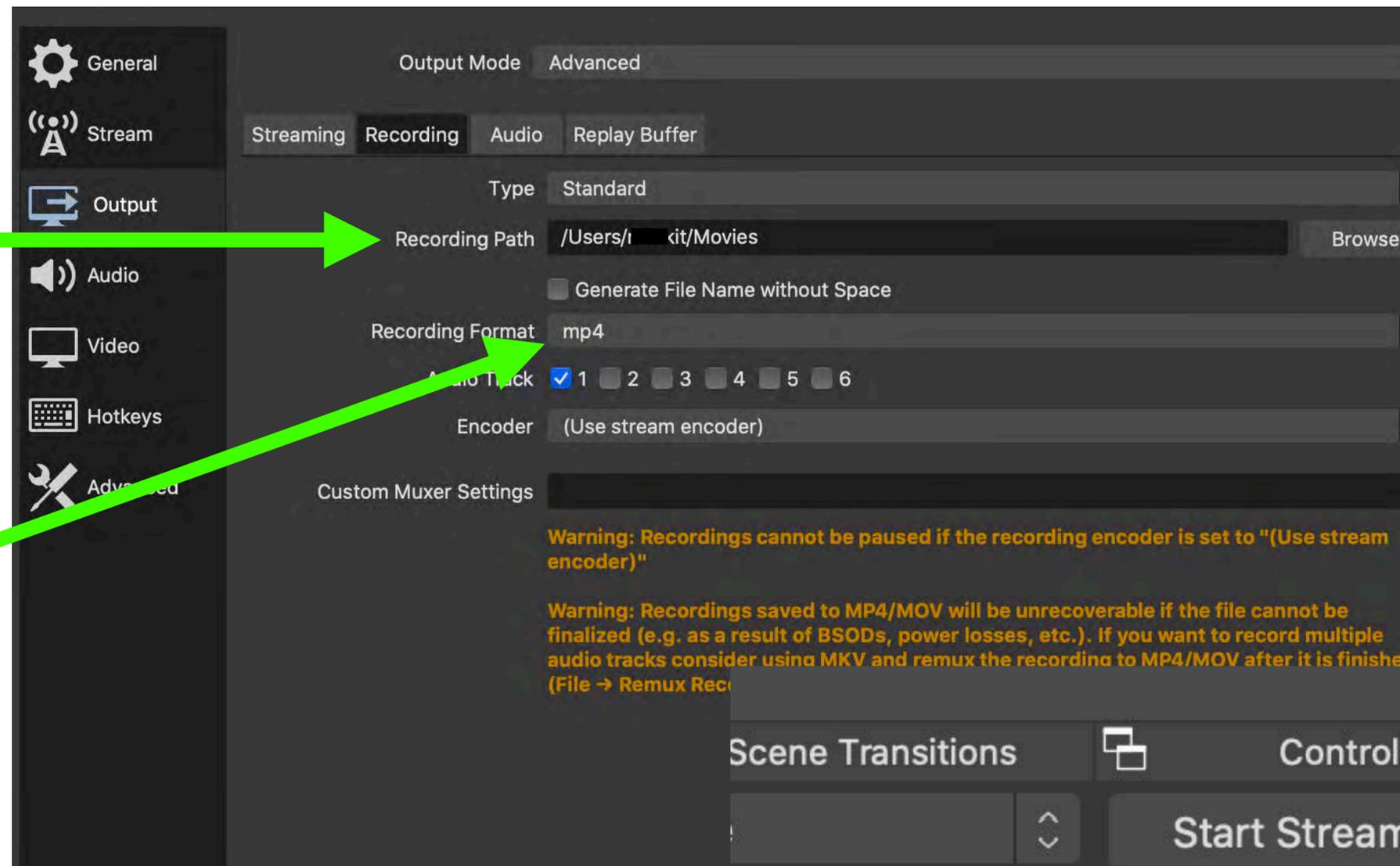
NOW TRY CHANGING SCENES IN THE PREVIEW WINDOW BY with your '1' & '2' KEYS

AND TO TRANSITION, TRY THE RIGHT ARROW KEY ->

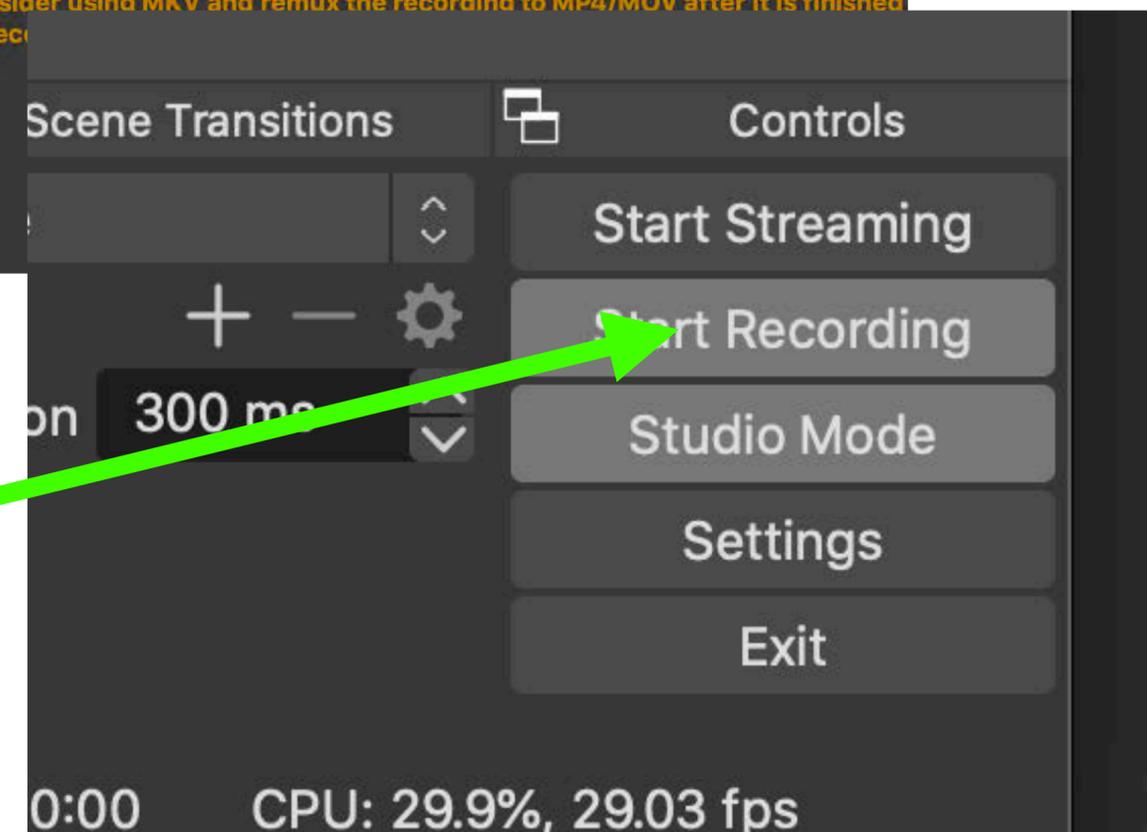
RECORDING

**SETTINGS
CHOOSE OUTPUT>RECORDING
& CHOOSE WHERE YOU WANT
YOUR RECORDING FILE to SAVE**

**YOU CAN CHANGE YOUR
RECORDING FORMAT
I CHOSE: 'MP4'**



**NOW CHOOSE
'START RECORDING' TO
RECORD YOUR VIDEO
hint: to Stop Recording click
'Stop Recording'**



There is so much more to OBS-Studio

Check out my *PIMA guide to streaming on Youtube and Twitch with OBS*

