Best OBS Settings for Live Streaming Events
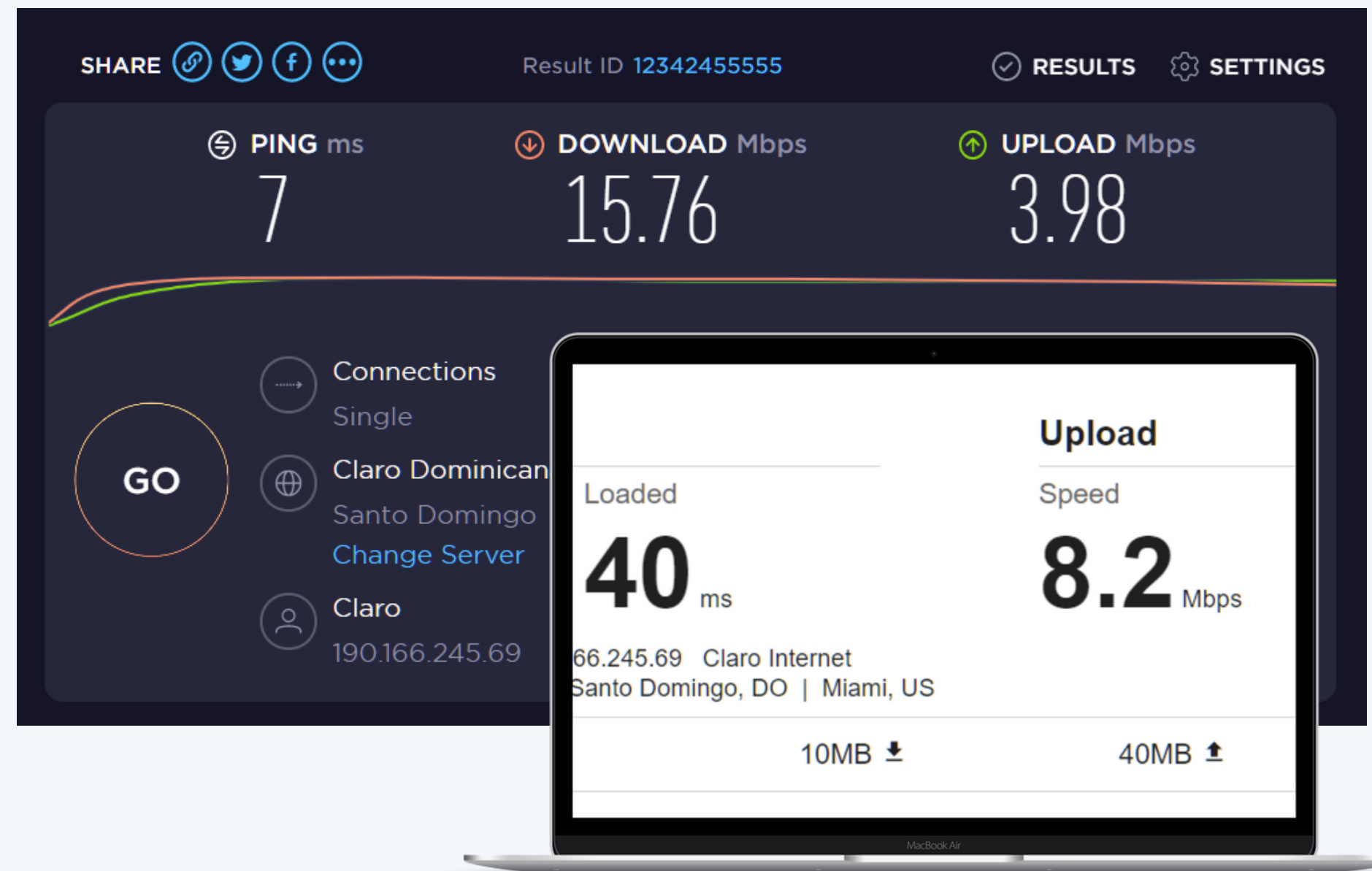
Internet requirements.

The first thing you need to verify is your Internet connection. **Your Upload speed is key.**

If you want to have a beautiful HD or Full HD stream, **you will need at least a stable Upload Speed of, ideally, 3Mbps.**

You can check your upload speed using one of the following websites:
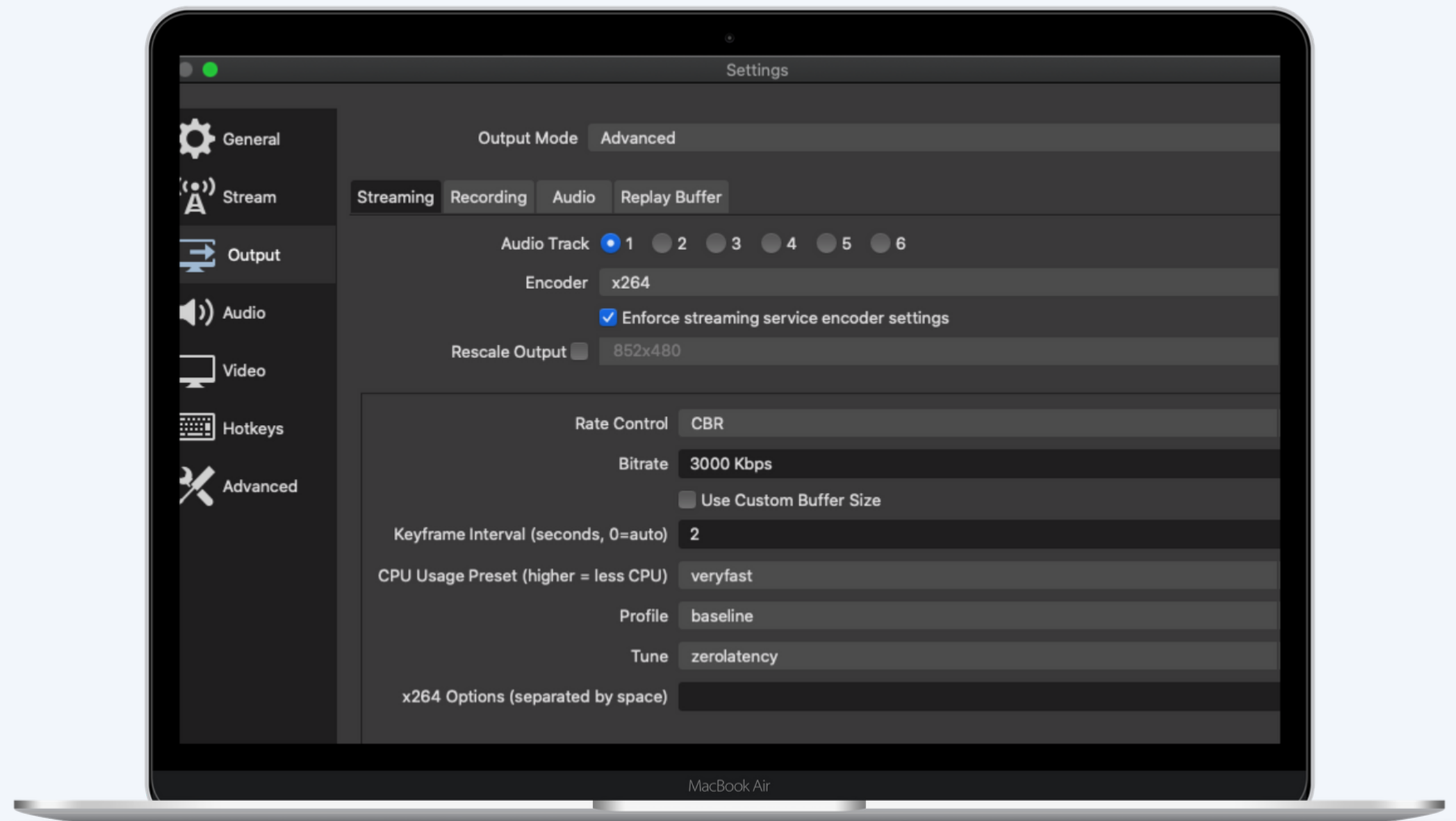- Fast.com
- Speedtest.net

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SHARE Result ID 12342455555 RESULTS SETTINGS

PING ms
7

DOWNLOAD Mbps
15.76

UPLOAD Mbps
3.98

GO

Connections
Single

Claro Dominican
Santo Domingo
Change Server

Claro
190.166.245.69

Loaded
40 ms

Upload
Speed
8.2 Mbps

66.245.69 Claro Internet
Santo Domingo, DO | Miami, US

10MB ⬇   40MB ⬆

MacBook Air

OBS Settings > Output Tab

To start configuring the software encoder, let's open OBS.

Head to Settings > Output tab.

There are a lot of options to tweak in here to modify your live stream, but we'll focus on the ones that matter the most.

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What is **EventLive?**

It's the **easiest** and best-looking **live streaming platform for events.**

Due to it's simplicity and ease of use, EventLive has been widely adopted by Wedding Videographers and Photographers alike.

It can be used with **OBS** via RTMP, or simply with our **iOS and Android app.**

Try your first live stream for free. Live streaming events has never been easier.

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OBS Settings > Output Tab

- First of all, set the **Output Mode** to **Advanced**. This will give you more options to tune the performance.

- Next, on the **Encoder**, choose **x264** unless your computer has a dedicated graphics card. In that case, you'd want to choose **Hardware encoder** instead.

- Head over to the **Bitrate** field, and type **2000-3000 Kbps** (or more). This is the ideal bitrate for EventLive if your upload speed is above this number (2-3 Mbps).

- These parameters will ensure that **your stream won't lag and stutter,** giving your internet connection a chance to keep up.

- Next, on the field that reads **Keyframe Intervals**, you want to set it to **2**.
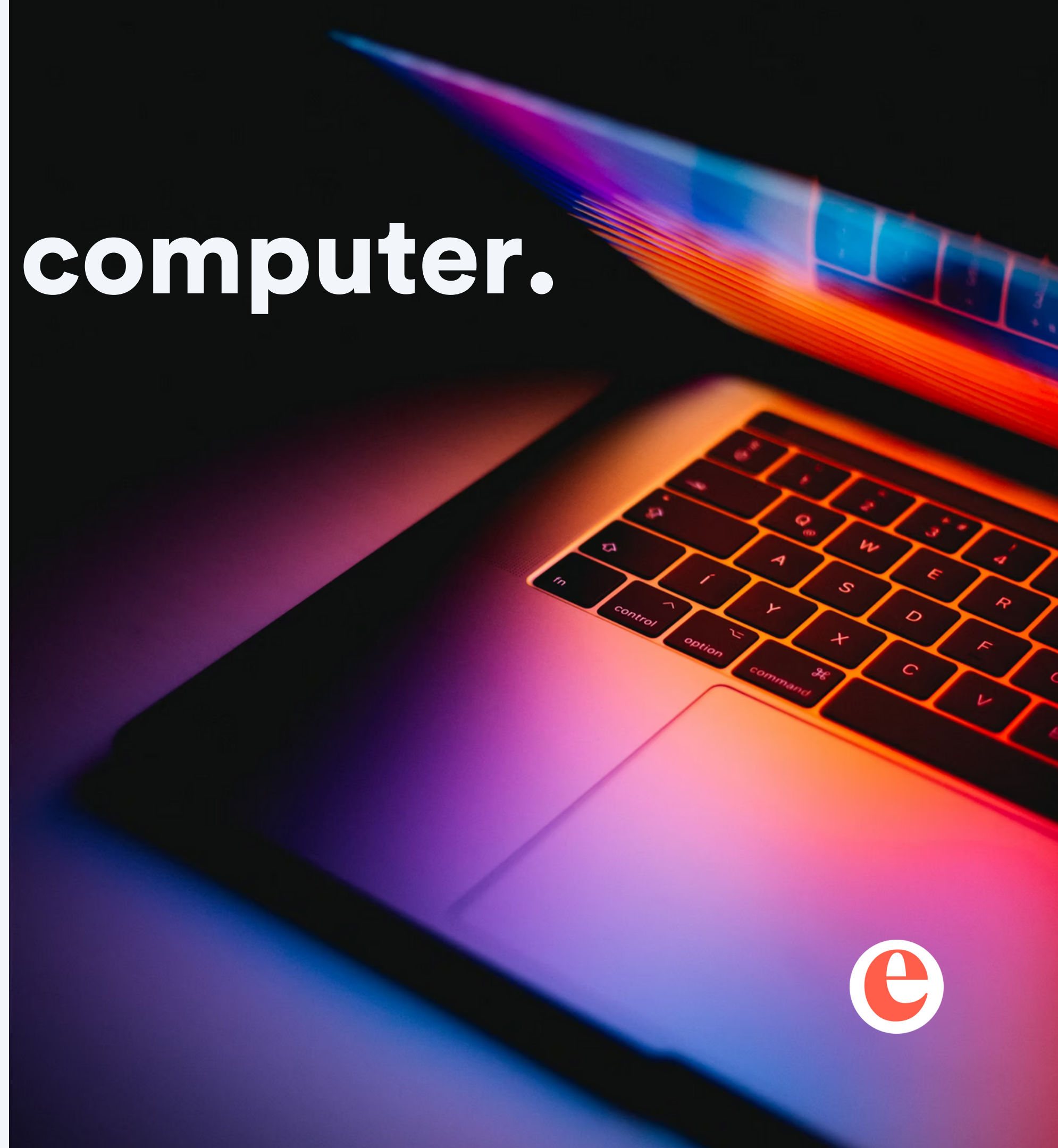
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Speed up your computer.

Please note that your computer might sometimes struggle to keep up with video encoding using OBS Studio.

If that's the case, you'll need to adjust your CPU usage.

- To do so, change the **CPU Usage Preset** to **veryfast** or **superfast**

- Change **Tune** to **zerolatency**.

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watch your business grow.

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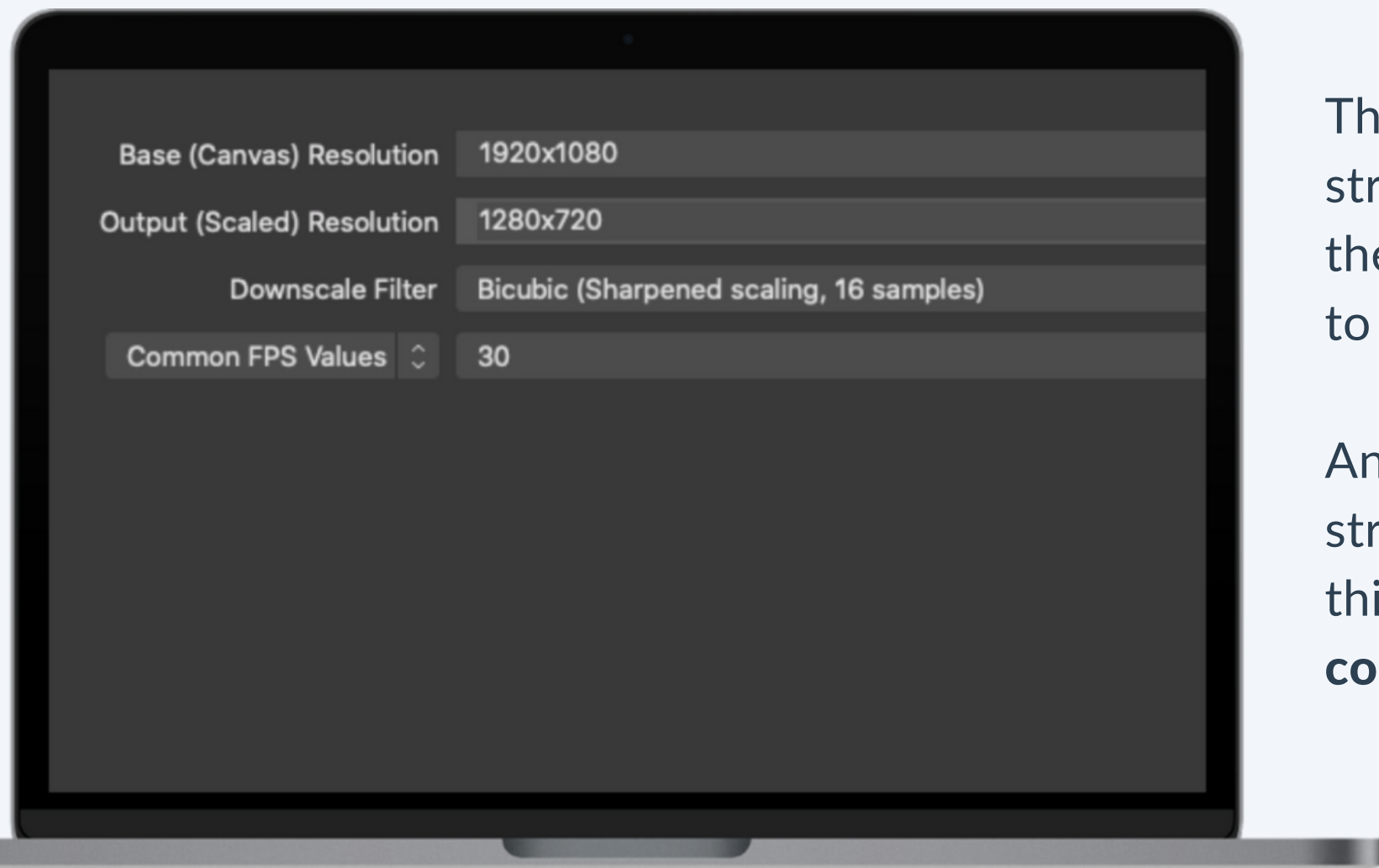
OBS Settings > Video Tab

Next, we'll move to the **Settings > Video tab.**

You'll immediately notice that this one is not as intimidating.

- Set your **Common FPS** to **30**.

- Set your **Output Scale Resolution** to **1280x720.**

Base (Canvas) Resolution	1920x1080
Output (Scaled) Resolution	1280x720
Downscale Filter	Bicubic (Sharpened scaling, 16 samples)
Common FPS Values	30

This will change the display of your stream. Don't mess with the other one, the **Canvas resolution**, as we don't want to move anything there.

An output of 1280x720 is perfect for HD streaming, and you'll only need to tweak this value **if your internet speed and computer can keep up with Full HD.**

720p | # 1080p

- **Resolution:** 720p

- **Bitrate:** 2000 - 3000 Kbps

- **Frame rate:** 30fps

- **Keyframe Interval:** 2 seconds

- **Audio Frequency:** 48 kHz

- **Resolution**: 1080p

- **Bitrate**: 4000 - 6000 Kbps

- **Frame rate:** 30fps (Other frame rates will be converted to 30fps)

- **Keyframe Interval:** 2 seconds

- **Audio Frequency:** 48 kHz

Please use **1080p** if you're confident your computer or encoder performance allows streaming in 1080p

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OBS Settings > Advanced Tab

Now, head over to the **Settings > Advanced** tab, and do the following.

- **Automatically Reconnect** should be **Enabled**.

- Confirm that your **Retry Delay** is set to **1s**.

- **Maximum Attempts** need to be set to a high number, like **1000**.

Most of these are security measures **in case something goes wrong.**

If your stream disconnects for any reason, it'll automatically try to reconnect. If all goes well, no one should notice anything wrong.

Is that it? Almost.
Have a look at our OBS tips on the next page.

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Recommendations for live streaming using OBS Studio

- Whenever possible, **run a test on location** ahead of the event and watch the live stream. If it's not playing smoothly it may be that **your OBS video settings are too high** for the internet bandwidth.

- Make sure to **test using your camera feed** instead of a blank screen or slideshow, as this will stress your connection simulating real-life situations.

- Incorporate the habit of **testing before going live** as this will help you fix little problems here and there before you have spectators connected to your live stream.

- If the stream isn't playing smoothly and you configured OBS Studio correctly, it could be an internet issue. **Check if your bandwidth allows for an upload speed of 2000-3000 Kbps or more.**

- Still getting laggy, botched video? **The simple solution is usually the best.** Get closer to your WiFi router, use bonding to improve your internet, or lower your bitrate.

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Fixing Common OBS Problems while streaming on location

Instant solution
for laggy live streams.

Keep in mind that you're **sacrificing quality to make it work asap.** Open **OBS Settings:**

- **Video** tab > **Output** (Scaled) Resolution: **1280x720**

- **Output** tab > Set your **Bitrate** to 1500 Kbps

- **Restart** the stream

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Do that right away and you'll live stream with ease, even if your internet connection is pretty bad.

These settings are useful if you're afraid of missing the bride walking down the aisle in the next 90 seconds.

There are better settings that will give you better quality with a stable upload speed. **Keep reading!**
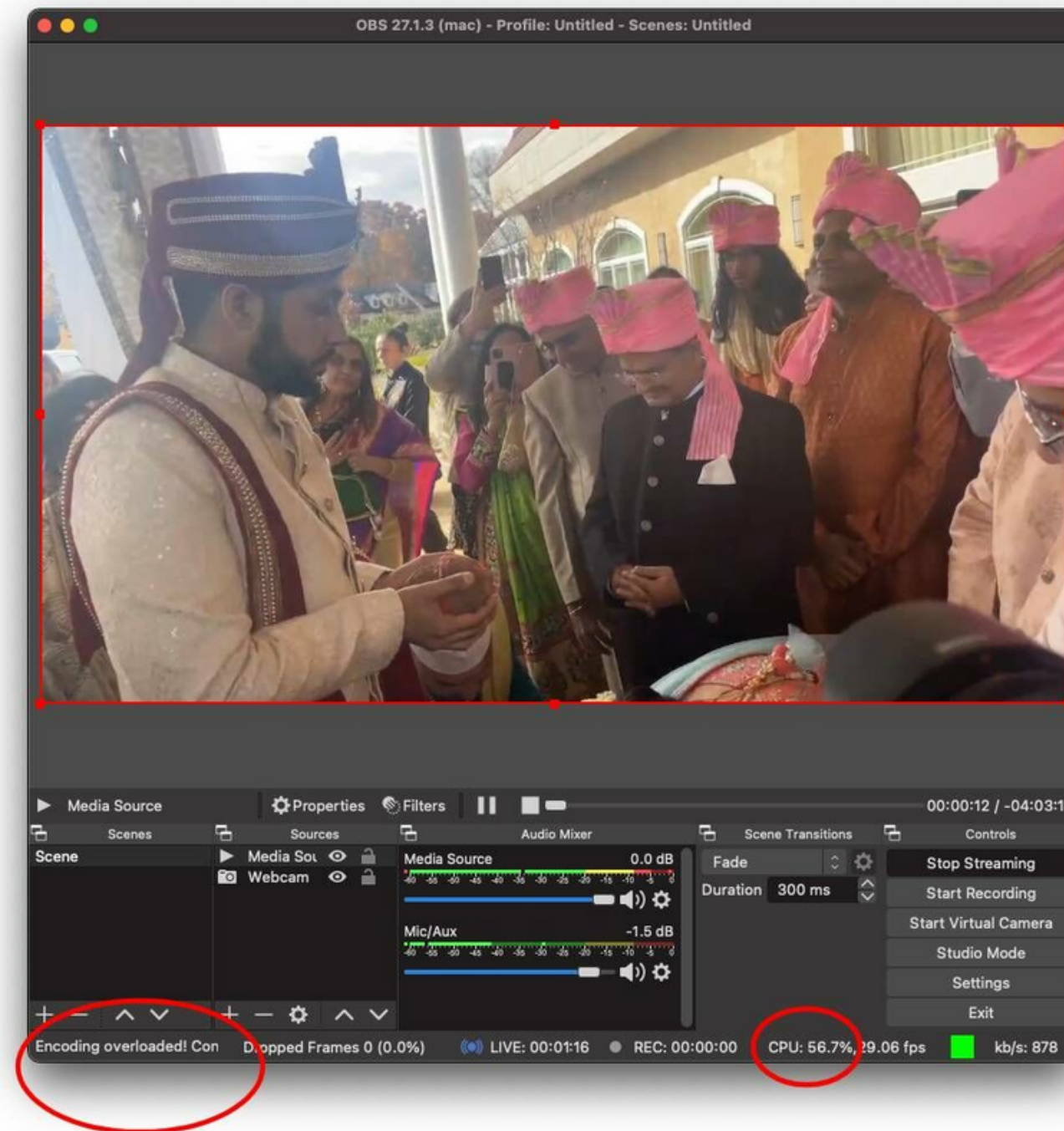
Is your OBS live stream lagging?

If OBS shows *"Encoding Overloaded! Consider turning down video settings or using a faster encoding preset"*, your computer does not have enough processing power to process the video in real-time with the current settings.

Another way to detect this is to **verify if your CPU usage is very high.**

If that's the case, your computer may be overheated, entered power saving mode, or other apps are slowing it down.

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How to solve the "Encoding overloaded!" issue in OBS

The first step is to **cool down your computer** if it's too hot. If you're live streaming an event on location, place your laptop in the shade, plug it into a power outlet, and close all unnecessary applications including browser windows.

Stop your live stream and open **OBS Settings.** Head over to the **Output tab**, and make the following changes.

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- Choose **Output Mode: Advanced**
- **Encoder**: Choose **Hardware Encoder** if available, or else:
- **CPU Usage Preset:** Choose **superfast**.
- **Tune**: Choose **zerolatency**.

After you're done, open the **Video tab** and change the following settings:

- **Output (Scaled) Resolution: 1280x720.**
- **Common FPS Values:** Choose **30**, or even **24**.
- **Downscale Filter: Bilinear**

Are you done? Perfect! **You can restart the stream now.**

Are you experiencing another problem?

Get in touch with me and let me know, I'll be happy to help.

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How to **free extra resources** when live streaming through OBS?

When live streaming an event on location, chances are that **you want to have a full recording** of the live stream in better quality.

Doing so will allow you to upload the higher-quality footage when the broadcast ends.

The problem with this is that you might be asking your computer to do **both the streaming and the recording** simultaneously, which increases the processing power it needs to record to your drive in real-time, as well as pushing the video feed to the internet.

The easiest way to fix this problem is to record internally to your camera, instead of doing it using the computer.
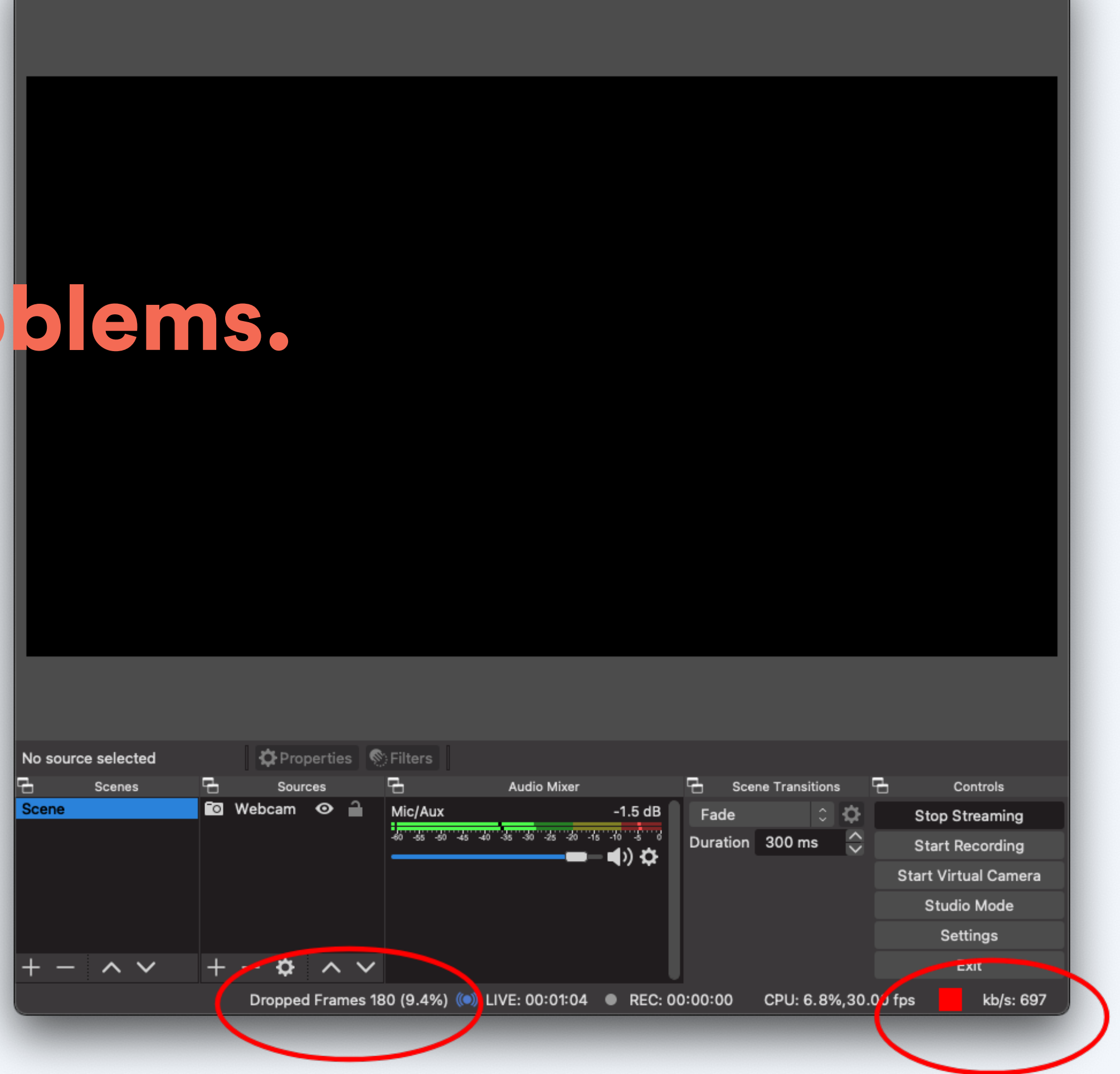
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Fixing common
upload speed problems.

Are your **Dropped frames increasing?**
If you have a high number of these, or your
indicator turned **Yellow** or **Red** on the bottom
right corner, you need to fix your internet
connection.

To put it simply, **your upload speed cannot
catch up with your stream settings.**

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How to fix Dropped Frames
while live streaming an event

Open your **OBS Settings** panel. On the **Output** tab, **you'll have to lower your bitrate.**

This will reduce the quality of your stream, allowing your internet connection to catch up.

The best way to go is to **lower your Bitrate by 500Kbps at a time**, until the problem resolves.

While you're at the **Output** tab, change your **Rate Control** setting to **CBR.**

If you couldn't solve the problem that way, **here's an alternative:**

- Stop your live stream
- On the **Video** tab change your **Output** resolution to **1280x720.** HD will look better with lower bitrates.
- While you're there, **lower your FPS** to **30** or even **24.**
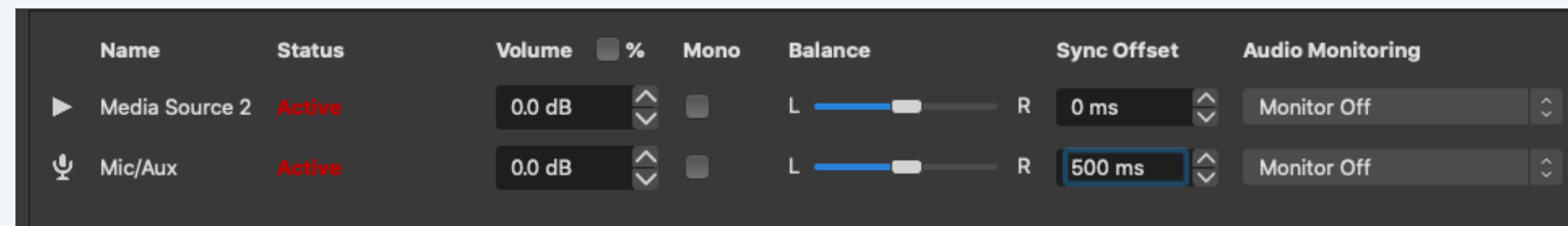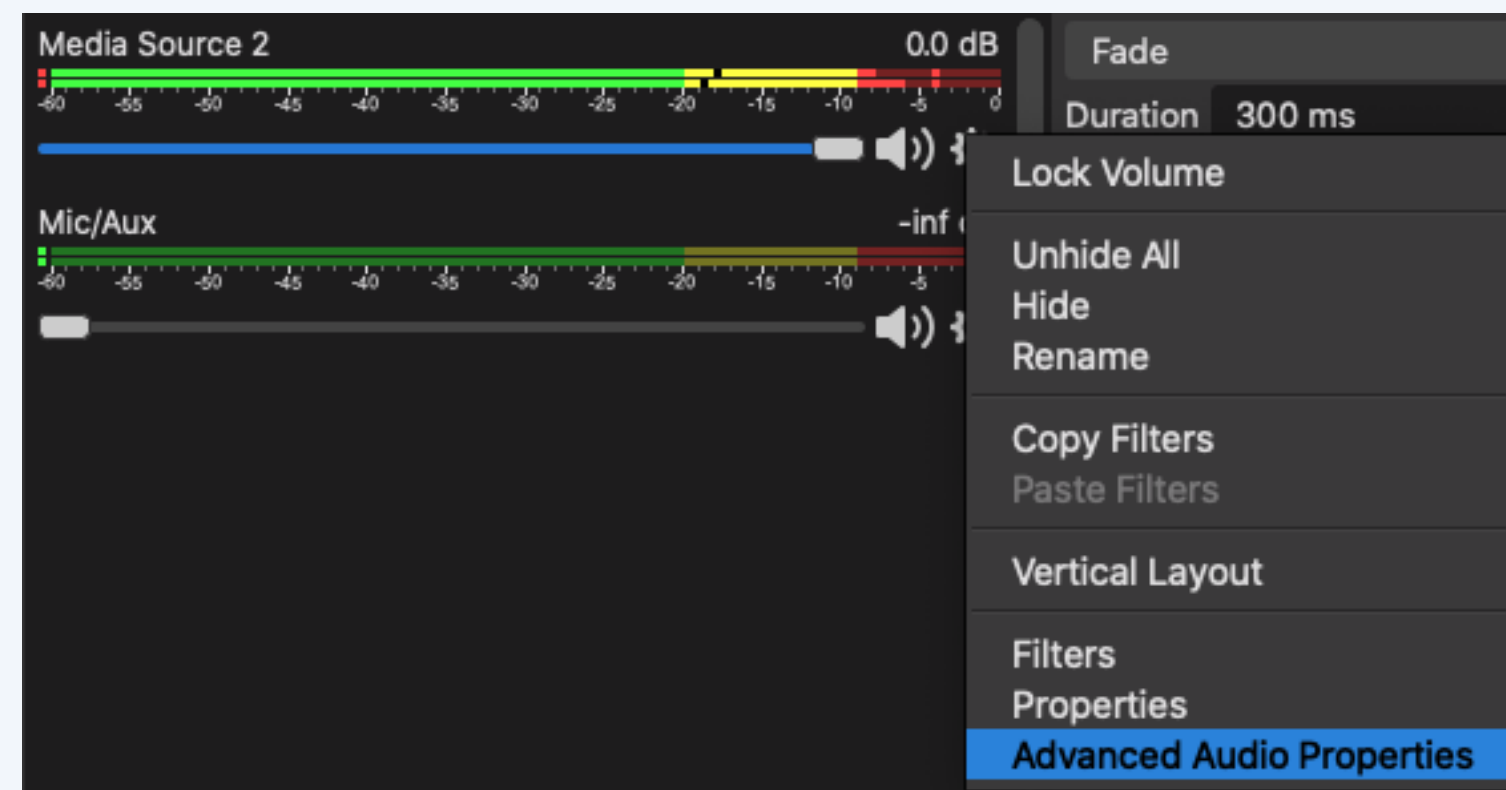- **Restart** the stream

Still having problems? You might have to try using an alternative internet connection.

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Audio and Video out of sync?

To fix the problem of your video and audio not being in sync, here's what to check:

- Are you using an external camera? **Turn off the in-camera image stabilization.** Image stabilization can add a small delay to the video feed.

- Are you using a capture card? **Cheaper capture cards can introduce delay too.**

- You can also fix the sync problem by choosing **Advanced Audio Properties** on your audio in Audio Mixer:

Not seeing an image from the camera?

This can usually be fixed by doing any of the following:

- Selecting the right **Scene** within OBS

- Make sure that the **Video Source** is **active** by clicking on the **Visibility** button (Eye) next to it

- Checking that the **Video Source** is **Activated, within the Properties.**

- Confirming that the **placement** of the video source **is within the live streaming Frame.**

- If you're using a **CamLink** capture card, you might need to unpair and re-pair it.

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OBS was streaming fine but suddenly stopped?

Let's fix this quickly, so you can continue working at the event:

- **Restart** OBS

- Apply solutions from the **Upload Problems** section

- If you're using an **unlimited plan that has data caps at high speed,** it might be an issue. Some carriers might throttle your connection, which can interrupt your live stream.

- Try a **different internet connection**

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Mark & Julia
CO-FOUNDERS

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