Visualization on the internet.

Technical tips and tricks for your studio

Disclaimer: No, I am not sponsored by any of the mentioned brands. I tried a lot, spend even more and eventually picked what worked the best for me. (I like quality)



Rudy

Example: filming in a large mirror is a bad tip if you add tekst.

8+1 topics

Internet connection	2
Lighting	2
Camera	2
Drawing Desk	3
Flip over	3
Whiteboard	
Streaming or meeting software	4
Microphone	
The modern professional touch	

Internet connection Common Pitfall: using Wi-Fi □ other housemates use VPN or streaming services like YouTube or Netflix during your performance. Tips: use a wired connection: UTP Cable at least Cat6 ☐ Ask housemates to stay of streaming during you performance ☐ Throughput: check with speedtest.net or upgrade even temporarily if necessary Lighting Common Pitfall: ☐ Dark spots, grey paper, shadows and reflections ■ No extra lighting in use Tips: ☐ Compensate for the natural light falling in from windows: use extra lighting! ☐ Key lights or soft boxes: focus your light on the far end of the paper. ☐ Led-panel Key lights can be adjusted for your visualisation or yourself, presenting, ... ☐ Test your lighting by talking a picture and evaluate. On several times of the day. Watch out for dark spots or shadows. Preferable adjustable lights: □ colour at least 4800K (arctic blue) or more for radiant colours ☐ intensity at least 2500 lumen

Camera

Common Pitfall:

Using a mediocre webcam or (even worse) a build in webcam
Camera is unable to set its focus sharp on the drawing
Mirrored video
Strange camera angle
Wiggling camera

Tips:

	Preferable use a photo camera on an overhead stand: set to 'live view', electric current fake battery pack, hack for more than 30 minutes, the right USB of HDMI cable (long enough)		
	Use your smartphone and install Droidcam or EPCcam for USB or Open Studio for HDMI	TURN DSLR INTO	
<u> </u>	Fix your focus on the drawing instead of autofocus Use a camera for the drawing/Whiteboard/flip over and a		
	different camera for yourself Use a studio arm for overhead shot of your drawing desk (check		
	weight or add weight) Check the different treads and buy a convertor if needed (in Dutch: schroefdraadgroote) ¼ inch (camera) 3/8 inch of 5/8 inch microphone standards		
	Use a Camera stand ball head for the prefect position of your		
	camera filming in a large mirror is a bad tip if you add tekst		
	ving Desk on Pitfall:		
_ _	Poor lighting results in grey areas on the paper Surface reflects the light (hard surface or glass can work like a mirro Too much distracting stuff around your working area	or)	
Tips:			
_ _ _	Cover the surface so it doesn't reflect the light Use soft boxes or key lights (see later) Clean desk policy! Take a picture from the standpoint of the camera and see how it looks like.		
Flip o	over		
<u> </u>	Poor lighting, you often stand in in your own light Mediocre camera position: flip over is only partially visible because	flip overs are portrait,	
	cameras are landscape Microphone is too far away to understand you		
Tips:			
_ _ _	Use a fill light from above Can you position your paper in landscape? Position you mic near the flip or use a Lavalier		

Whiteboard

Comm	on Pitfall:					
<u> </u>	Reflecting light, shadows, you often stand in in your own light Microphone sounds hollow due to reflection on hard surface					
Tips:						
	Use a soft fill light diagonal from above, see that it doesn't reflect Most whiteboards are landscape, use it preferable like this Use a Lavalier microphone or use sound reflecting panels around the whiteboard					
	Use professional sound reflecting panels near the whiteboard					
	aming or meeting software on Pitfall:					
<u> </u>	Not using the maximum video quality output Not pinned or spotlighted on your video feed					
Tips:						
	Ask your participants to use full screen Use your maximum video quality output In Zoom: select HD, ask the people to set to 'speaker view' In Google Meet: select highest (720p) output quality In other software: check to select the maximum output quality (not available in MS Teams 2020) If you have a second computer: log in twice, one for your face, one for your visualisations					
	ophone on Pitfall:					
	Muffled sound when you bend forward, faced down for drawing					
Tips:						
	Stuff the room with pillows, blankets, curtains, a couch, or use professional sound reflecting panels					

☐ Avoid talking towards hard surfaces (computer screen, your desk surface)

☐ Use an external condenser microphone:

	0	USB Large (25mm) diaphragm condenser (80€)			
	0	XLR Large (25mm) diaphragm condenser studio microphone (250€)			
	Use a L	oop filter when you have your mic up close avalier microphone a Studio arm and position the microphone upside down next to the camera above rawing			
The modern professional touch Work with multiple camera's:					
	Virtual	S Studio for picture in picture modus with multiple camera's (freeware) Use the Camera Plug-In HDMI video switcher like the BlackMagic design Atem Mini for professional camera			
_		and transitions (300€)			
Promo	te yours	elf with Lower thirds			
	Use H2	R software (freeware) heretorecord.com			
Jse soft background music					
<u> </u>	Downlo Select i Make s	sure it is legal to use (No Copyright Music) streambeats.com (freeware) coad and install VLC Media player (freeware) put it on repeat (lower right corner) multiple tracks, right click, Add to VLC playlist, adjust the volume sure your streaming tool transfers the audio (OBS, Twitch, Zoom: Share screen, Check computer sound, Advanced, music or computer sound only)			
Nice to	have				
<u> </u>	Stream microp Chroma becom	le screens (at least two) set Zoom for use with multiple screens deck with a long USB extension cable to place it near you and control camera's, hones, audio, recording, software, with macro's a Key: watch out with multiple camera's, when you are drawing all the green will e transparent (make a macro to shut it off easily or let the chroma disappear if you do ition to another camera)			