

Camera Fundamentals

easy	medium	hard
Which visual aspect is changed by the shutter speed/angle?	What does the Aperture/Iris control besides the amount of light coming in?	What does just the size of the sensor change for the same lens besides depth of field?
• Depth of Field • Resolution/Detail • Exposure Time • Motion Blur • Dynamic Range	• Depth of Field • Resolution/Detail • Exposure Time • Motion Blur • Dynamic Range	• Resolution/Detail • Exposure Time • Motion Blur • Dynamic Range • Image Crop/Size

Light Fundamentals

easy	medium	hard
What does „White Balance“ refer to when using different light sources?	What does the „ND“ in „ND Filter Gel“ for controlling the amount of light stand for?	What can be changed by so-called CTO or CTB gels?
• Color Cast • Color Temperature • Heat of Bulbs • Western Skin Tones • Dynamic Range	• Natural Density • Nautical Degrees • Neutral Density • New Range • Non-diverse	• Amount of Light • Overheating Limit • Power Consumption • Color Temperature • Flicker Frequency

Digital Signal Processing

easy	medium	hard
What do digital signals use when converting from the analogue world?	If RGB is the full amount of color information, which color sampling refers to the lowest of 25%?	Which compression method is mostly used for colors?
• Binary algorithms 1-0 • Electronic Noise • Morse Code • Sinus Waves • Decibel	• rec2020 • rec709 • 4:2:2 • 4:4:4 • 4:2:0	• RGB • YCbCr (YUV) • PAL • SECAM • NTSC

Videobasics

easy	medium	hard
What is a Codec?	Which one is NOT a codec but a container?	What's the most common aspect ratio for recording, broadcast and home entertainment?
• Secret Password • Hidden Encryption • Compression Format • Editing System • Metadata Explorer	• H264 • MPEG2 • ProRes • MP4 • AVC-I	• 3:2 • 2.35:1 • 16:9 • 4:3 • 1.85:1

Setseminar Theory

easy	medium	hard
Who is NOT „Above the Line“?	What is a „Script Breakdown“?	What is „Top Billing“? Who gets the highest pay check?
• Director • Producer • Executive Producer • Talent/Actors • Director of Photography	• Sorting Production Elements • Handing over a Final Draft • Re-writing a Draft • Writer-illness due to Stress • Counting Script Pages	• First Name on Contract • First Name on Poster • „Producer“ Credit • The Sales Agent • The biggest Star

Optical Principles

easy	medium	hard
What is „Refraction“?	What does „Focal Length“ of a Lens describe?	What happens at the „Focal Point“ of a Lens?
• Medical Exam • Sonar Audio Recording • Splitting white Light into Colors • Worst Movie ever made • Cheating at exams	• Angle of View of Lens • Distance to an Object • Distance Focal Point to Sensor • Distance between Human Eyes • Distance between Letters	• Light converges („meets“) • Light diverges („flees“) • Aperture Closes • Nearest Focus (Macro) • Bad Things

Light & Color Theory

easy	medium	hard
What does the „Itten Color Wheel“ from 1921 define?	What are „Memory Colors“?	How does CMYK behave differently than RGB?
• Basic Colors set for everything • Colors the Human Eye can see • Color system for Printing • Painting Equipment • Psycho-Emotional Effects	• Broken Pixels in Screens • Presets or Templates • Preview Method before Grading • Natural Colors we are expecting • Duplicated Frames	• 4 instead of 3 basic Colors • Colors mix to Black • Colors mix to White • Saturation Values are off • Bigger Color Space

Basics in Design & Composition

easy	medium	hard
Define a „Dutch Angle“:	Define the „Rule of Thirds“:	Define the „Golden Ratio“:
• Sailing Ship • Small Street in Belgium • Coffeeshop in Amsterdam • Slightly tilted Camera • Stunt Car driving technique	• Hierarchy of Video Layers • Composing an Image by Grid • Using three basic Colors • Mixing three Perspectives • Cutting Film for Editing	• Highest Quality of Materials • Same Amount of two Colors • Painting in a certain Perspective • Using lines to compose Image • Spatial composition following our natural perception/focus

BONUS

easy	medium	hard
Which Bit Depth refers to the highest amount of Colors?	Which Color Space refers to the highest amount of Colors?	How does an „Anamorphic“ Lens work?
• 12 bit • 8 bit • 100 mbit/s • 10 bit • 16 bit	• rec2020 • DCI P3 • sRGB • rec709 • Adobe RGB	• Bigger Aperture • Better Glass • Stretched Wider Image • Smaller Focal Length • Bigger Focal Length