



Einführung in die Farbwissenschaft

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Contents (planned)


- what is color?
- anatomy: our eye, illusions, color blindness
- physics of light and color
- causes of light and color
- history
- light units
- colorimetry
- color description systems
- color measurements
- HDR images and tone reproduction



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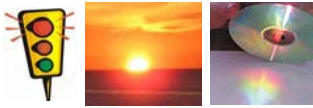
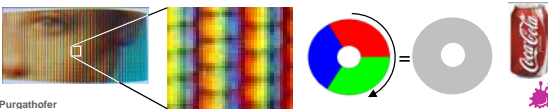
What is Color?

What is Color?



- color is an effect that we observe
- physical properties
 - ◆ induce color
 - ◆ but they are not color
- color exists only inside our brain

What is Color?

- the term color is used for
 - ◆ *object properties*
(color of an object) 
 - ◆ *light properties*
(color of light) 
 - ◆ the *effect that we see* 

Who is Interested in Color?

- philosophers
- artists / painters / artisans
- physicists
- chemists
- psychologists
- neurologists / medical doctors
- publishers / graphical designers / printers
- computer scientists
- ...

Color Science was – and is – influenced by all of them!