

There and back again

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A TALE BETWEEN PHOTOGRAPHS AND BITS

STUDY GOALS

MOTIVATIONAL ELEMENT

AUTHENTIC LEARNING

- ... - know von Neumann model
- describe data compression
- describe picture resolution
- know models of colour encodings
- ... - understand how computer networks work and its services
- showcasing data on WWW
- ...

STORY

Teacher's overview

TRAVEL PHOTOGRAPHY

Photographic trip across the lands of New Zealand. Travel experience as main story. Principles and camera as live example of computer usage in real world. At the end creating web gallery for showcasing photographs.

EXAMPLE OF ONE STUDY UNIT

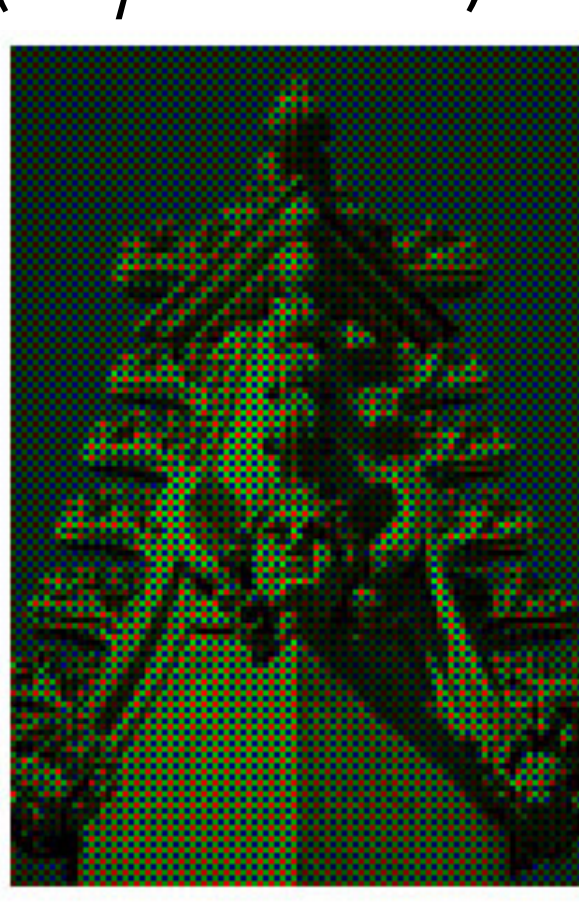
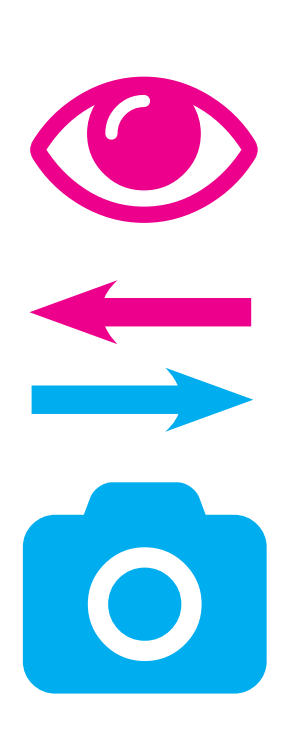
Complete story

STUDY GOALS

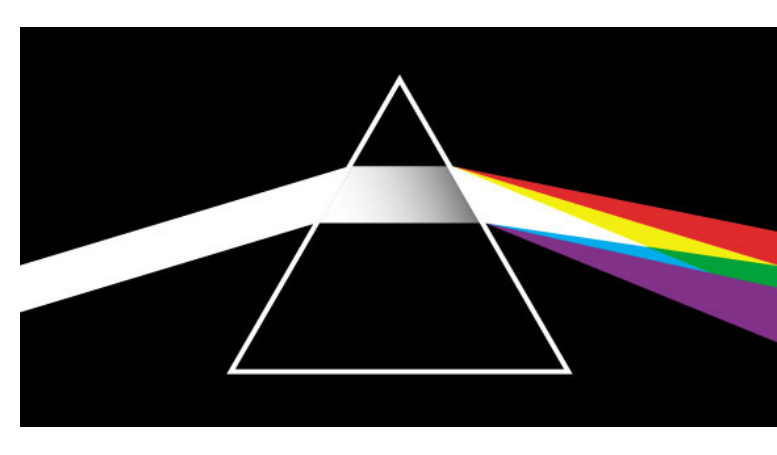
describes image resolution, know models of colour encodings, define algorithm

COMPUTER HARDWARE > I/O DEVICES > SENSOR

How digital camera see the world (Bayer sensor) ...



Catching the light ...



The importance of a sensor size ...

