

MIT Student Art Association IAP 2011

Digital Photography 101

assignments from last week

short exposure



CAUTION:
ASTEROIDS













123 mph
imbledon.org

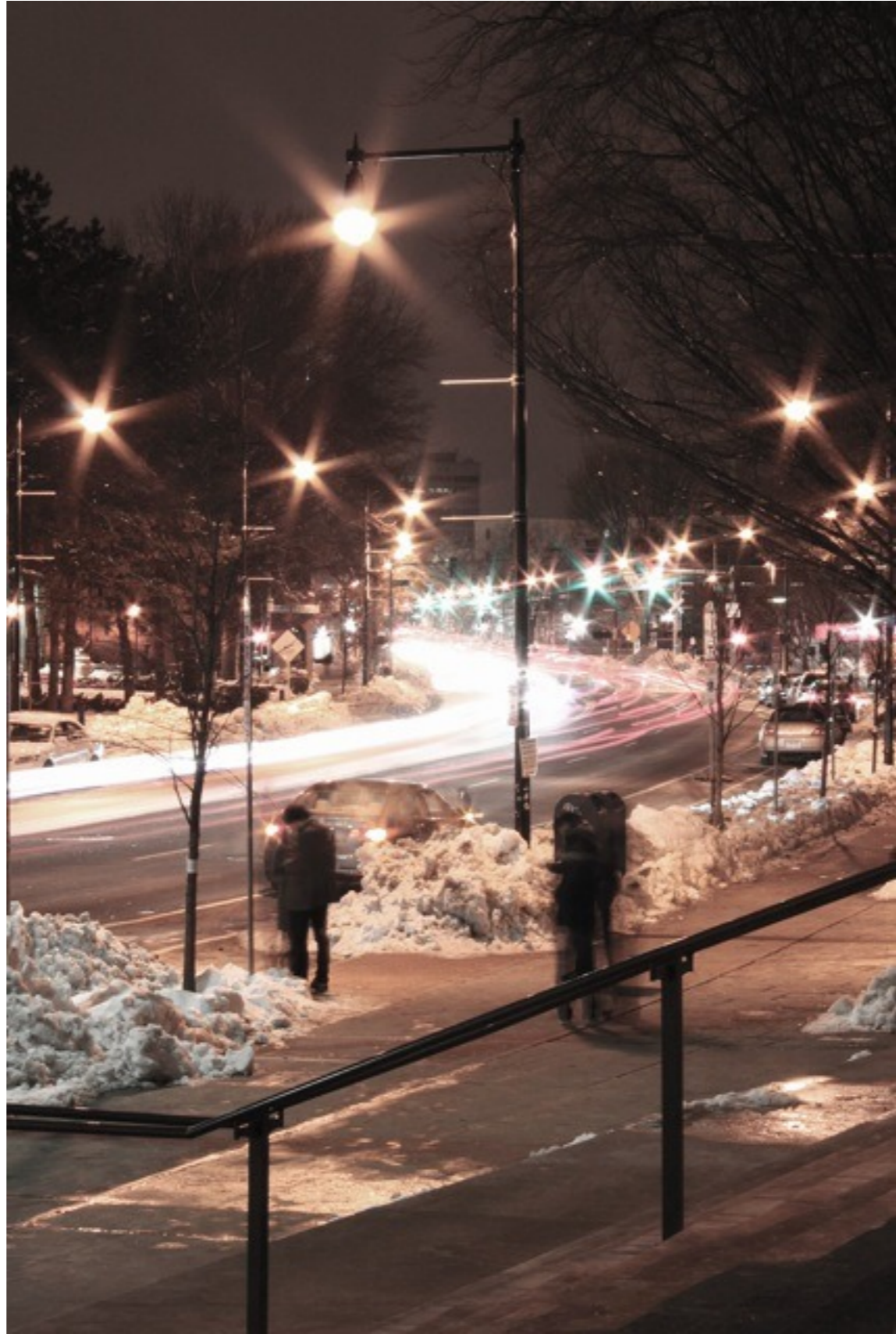




long exposure























wide depth of field













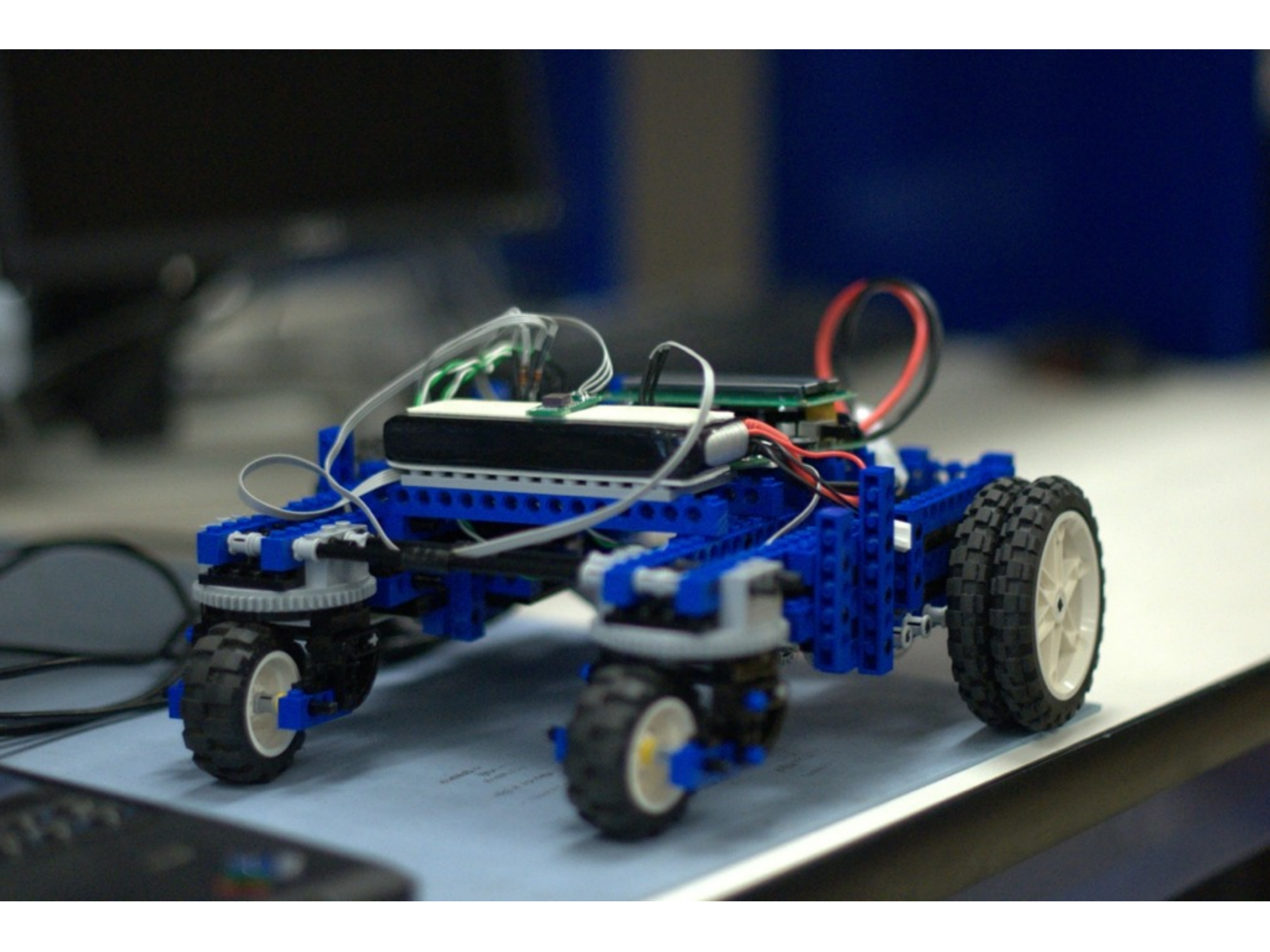








narrow depth of field











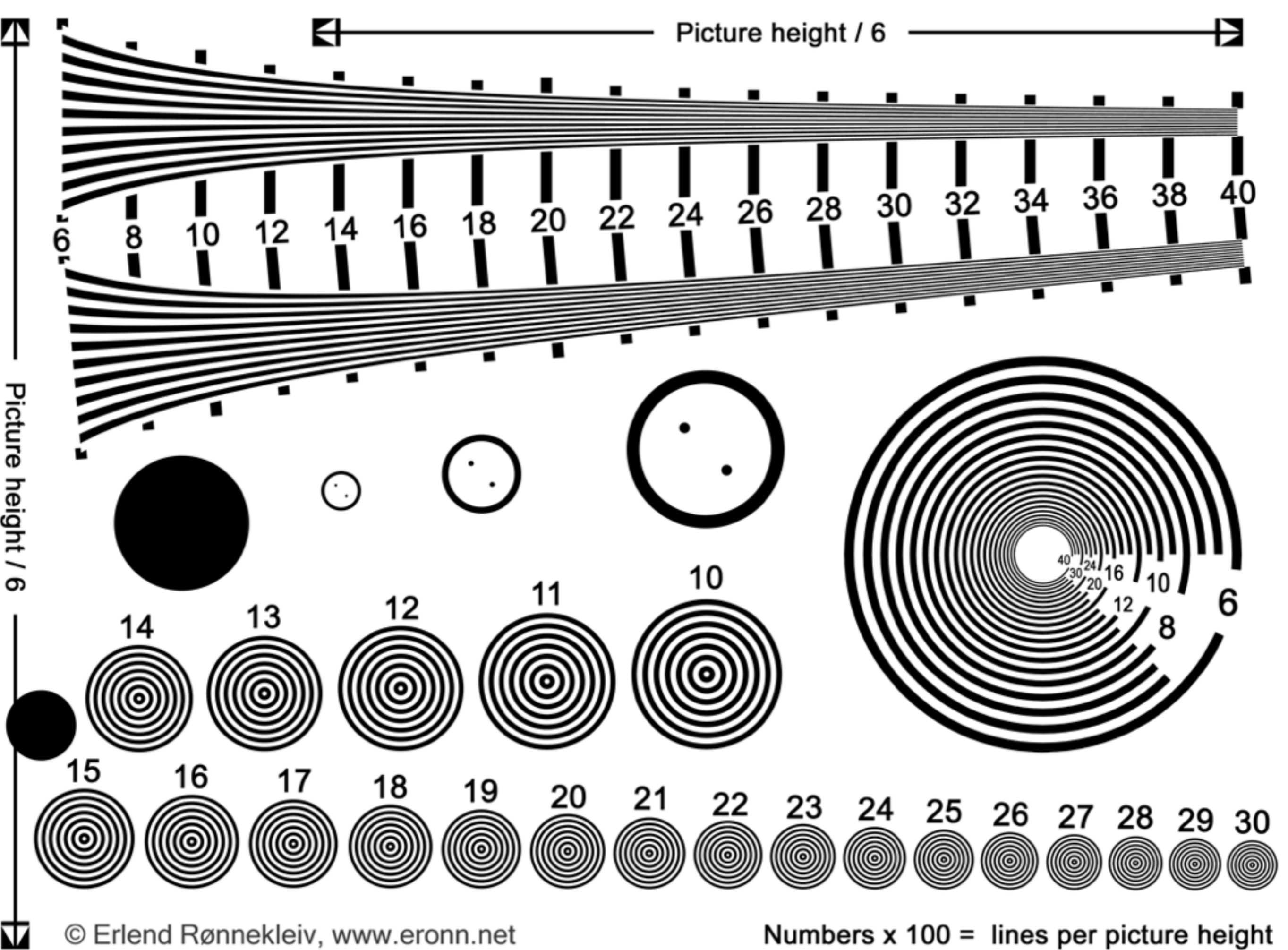


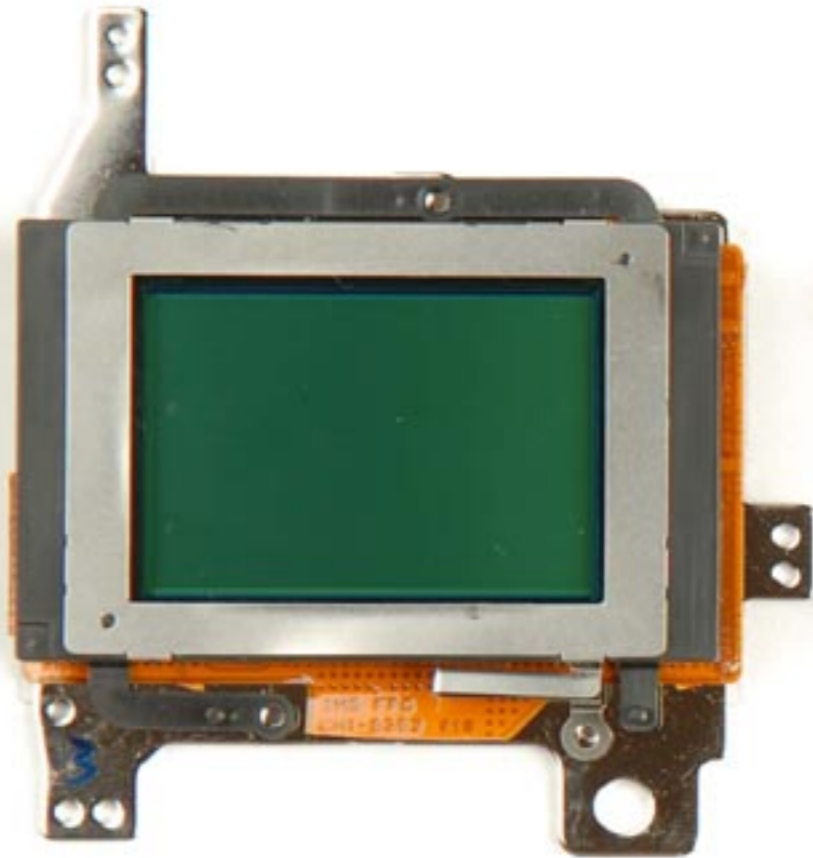




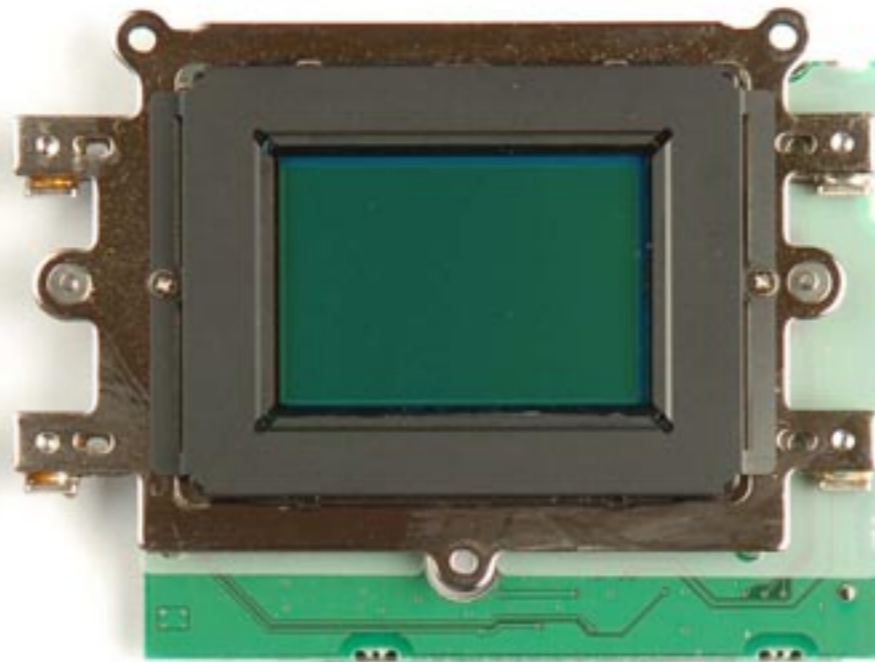


resolution

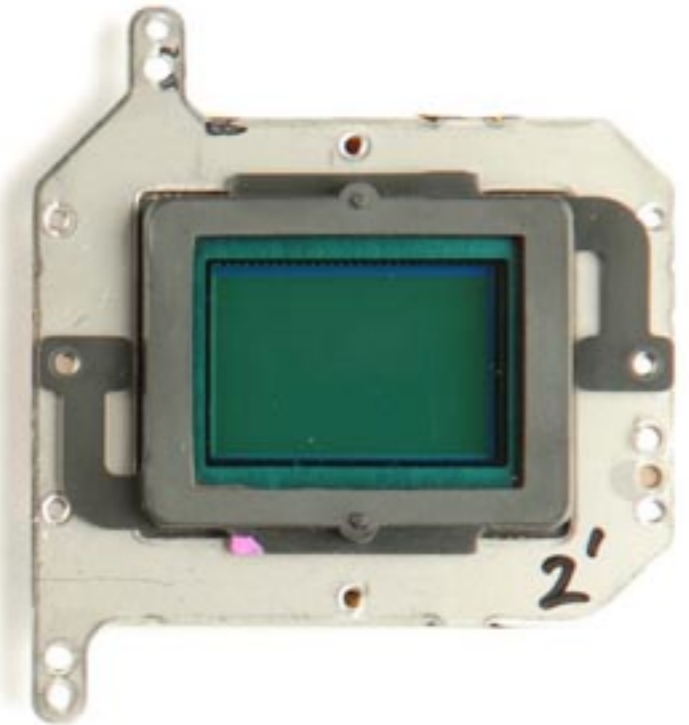




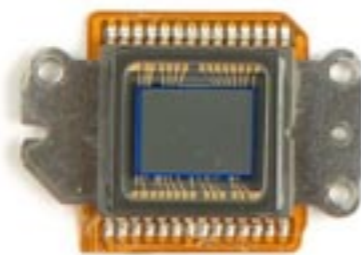
35mm
24 x 36 mm



Canon EOS 1D
19 x 29 mm



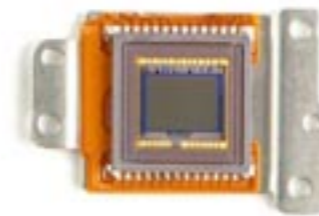
APS-C
15 x 22 mm



2/3"
8,8 x 6,6 mm

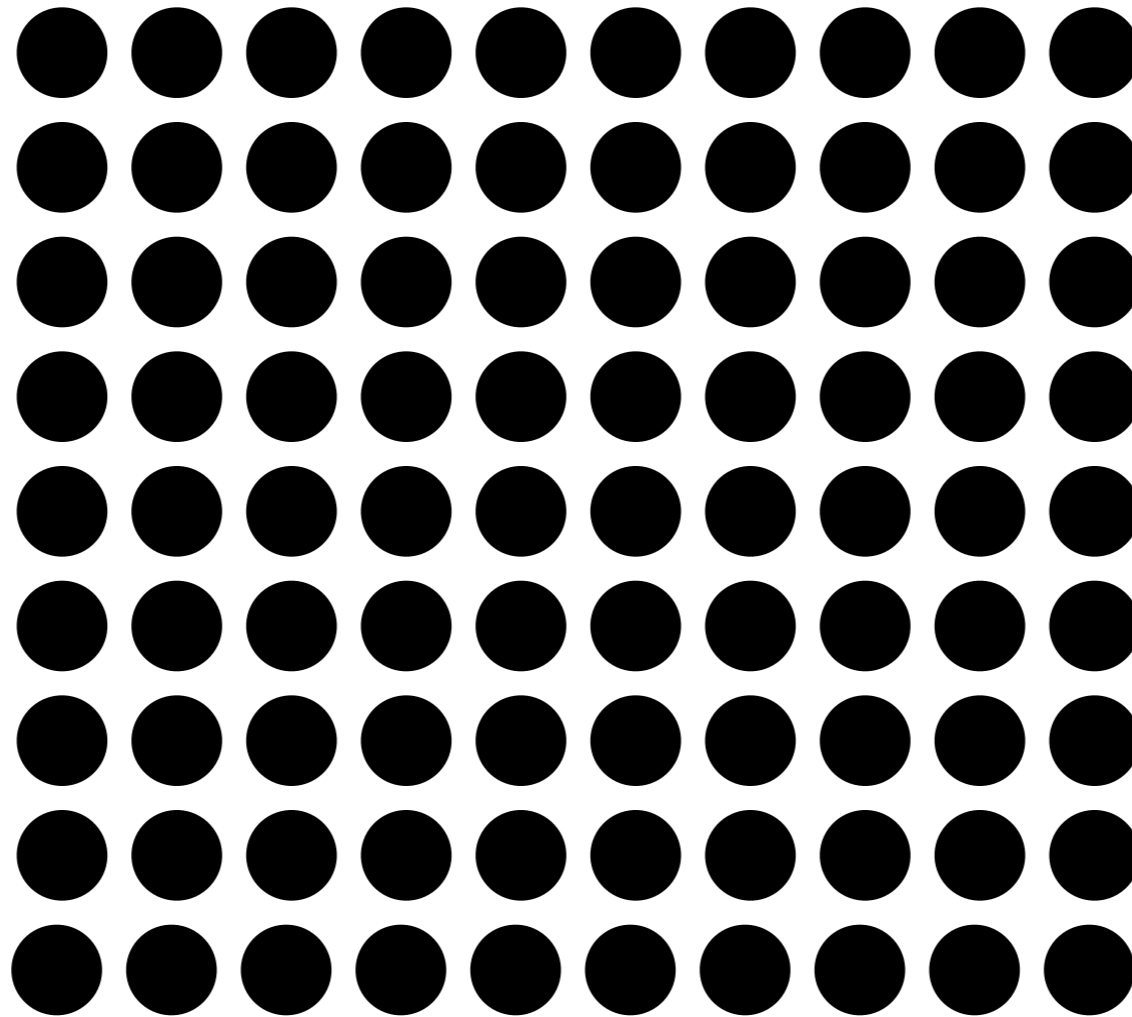


1/1,8"
7,2 x 5,3 mm



1/2,5"
5,8 x 4,3 mm

1 inch



bit depth: 8 bit vs. 16 bit

R

0

255



G

0

255



B

0

255



R



G



B



RAW, TIFF, PSD, PNG, JPEG 2000

white balance





AUTO
camera sets white balance



DAYLIGHT
camera adds warm tones



CLOUDY
camera adds warm tones



SHADE
camera adds warm tones



TUNGSTEN
camera adds cool tones



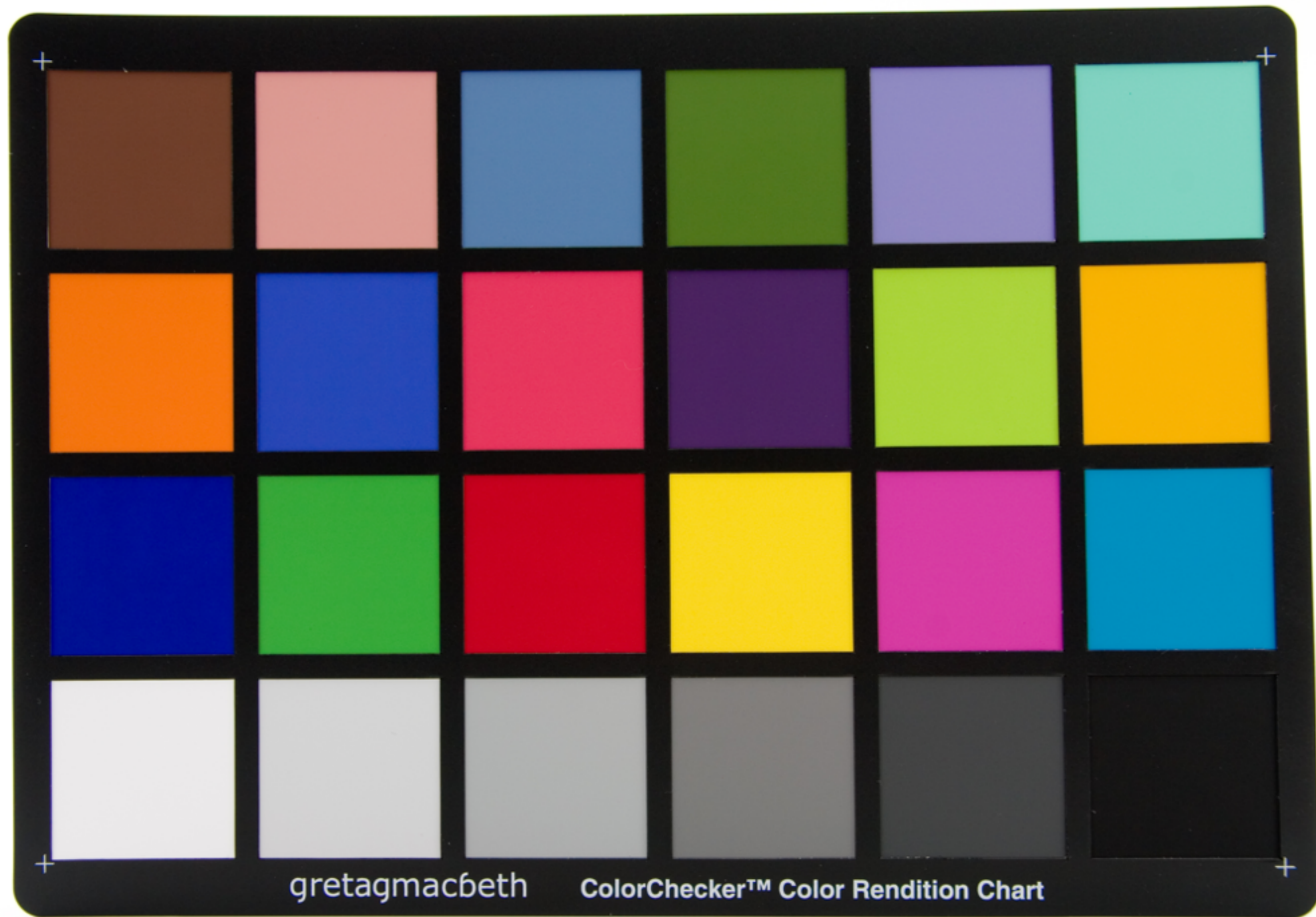
FLUORESCENT
camera adds warm (red) tones



FLASH
camera adds warm tones



CUSTOM
photographer sets white balance



gretagmabth

ColorChecker™ Color Rendition Chart

dynamic range





Projector typically 600:1



LCD typically 1000:1

Outdoor 1.25 (17:1) to 3.3 (2000:1)

Color Transparency Film 3.0 - 3.7

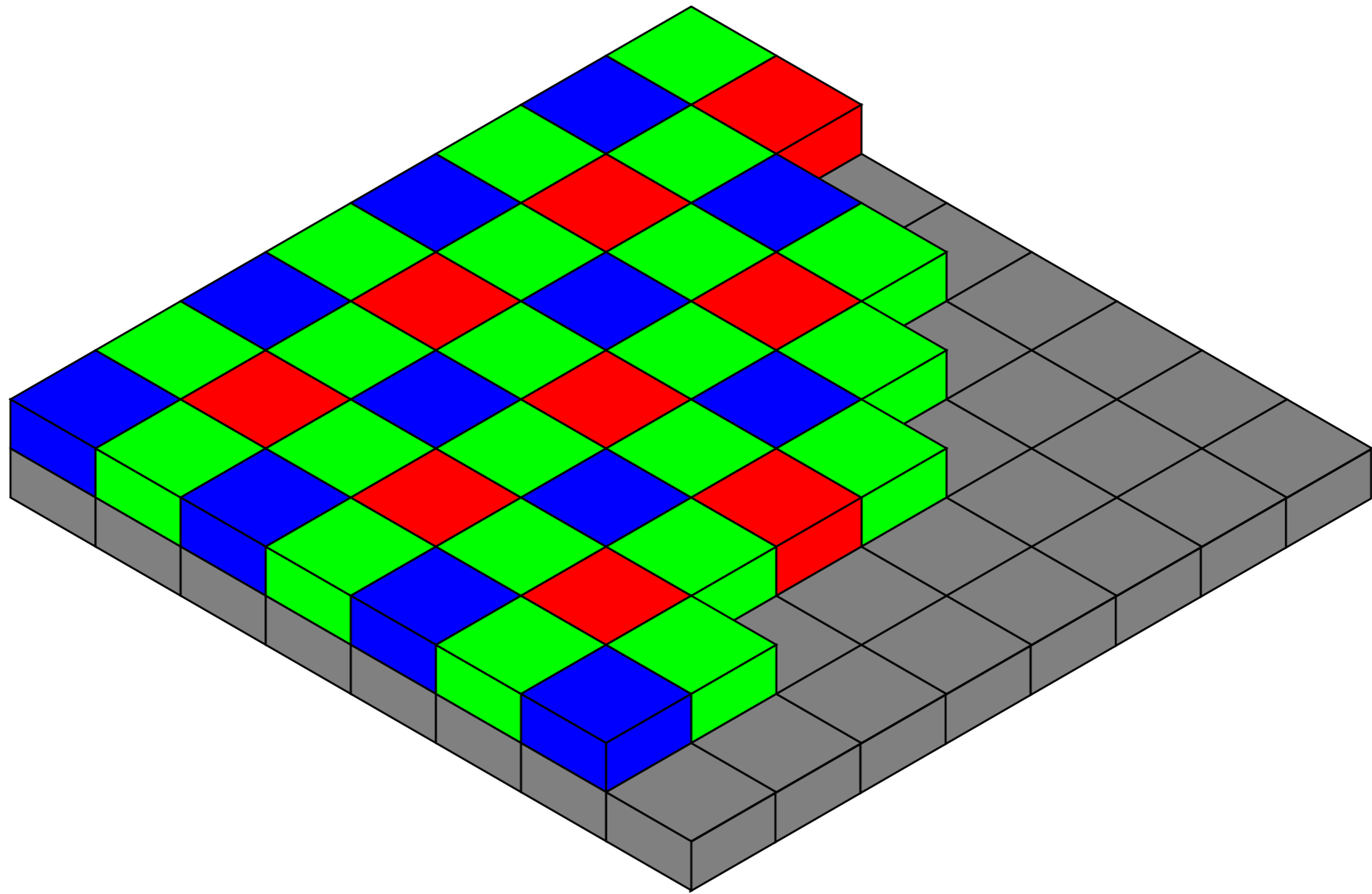
Color Photo Paper 2.4

CCD and CMOS 2.5 to 3.6

file types

RAW

NEF, CR2, DNG



RAW

Camera RAW

RAW: non-destructive editing

PSD

TIFF and JPEG 2000

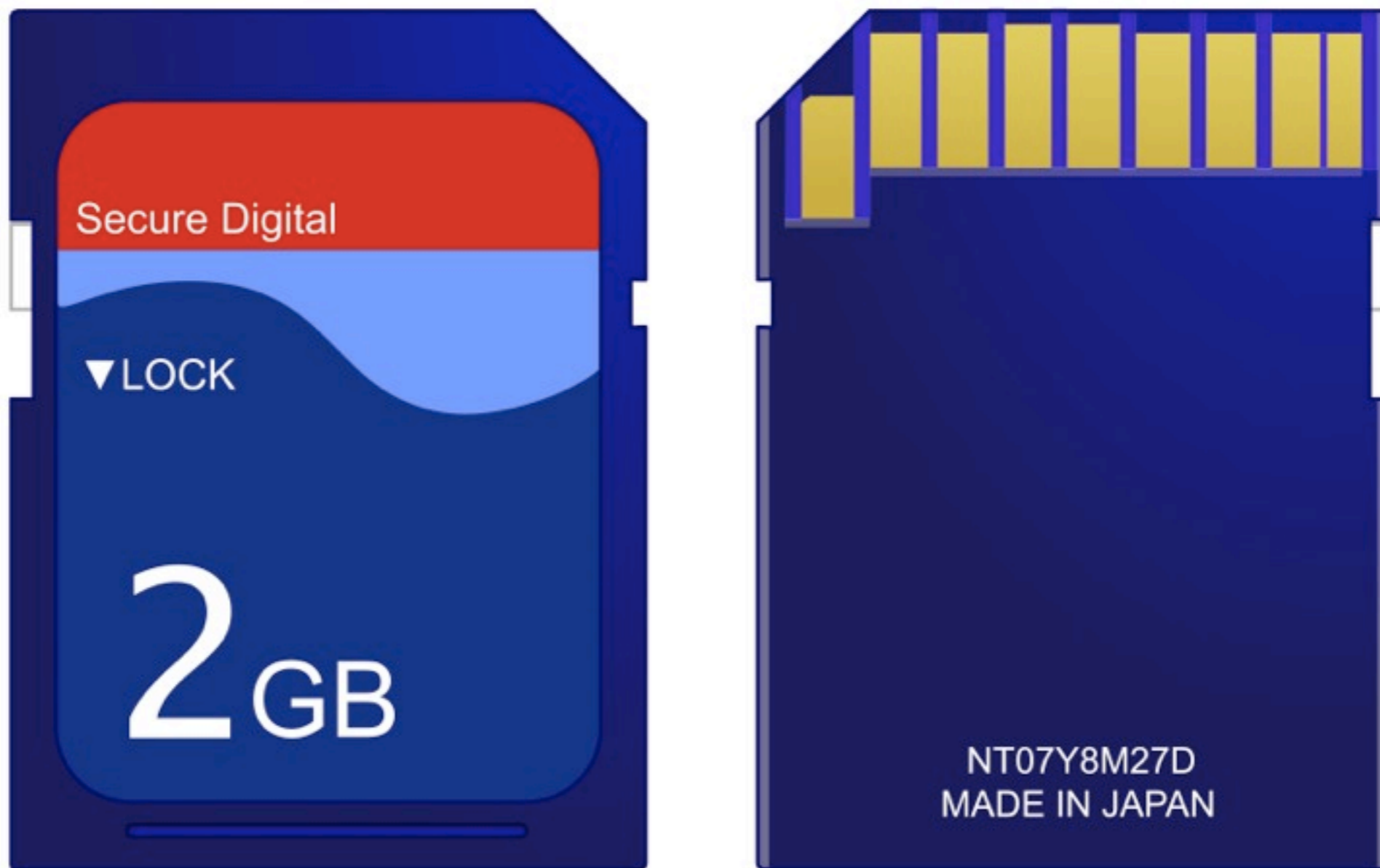
PNG

JPEG

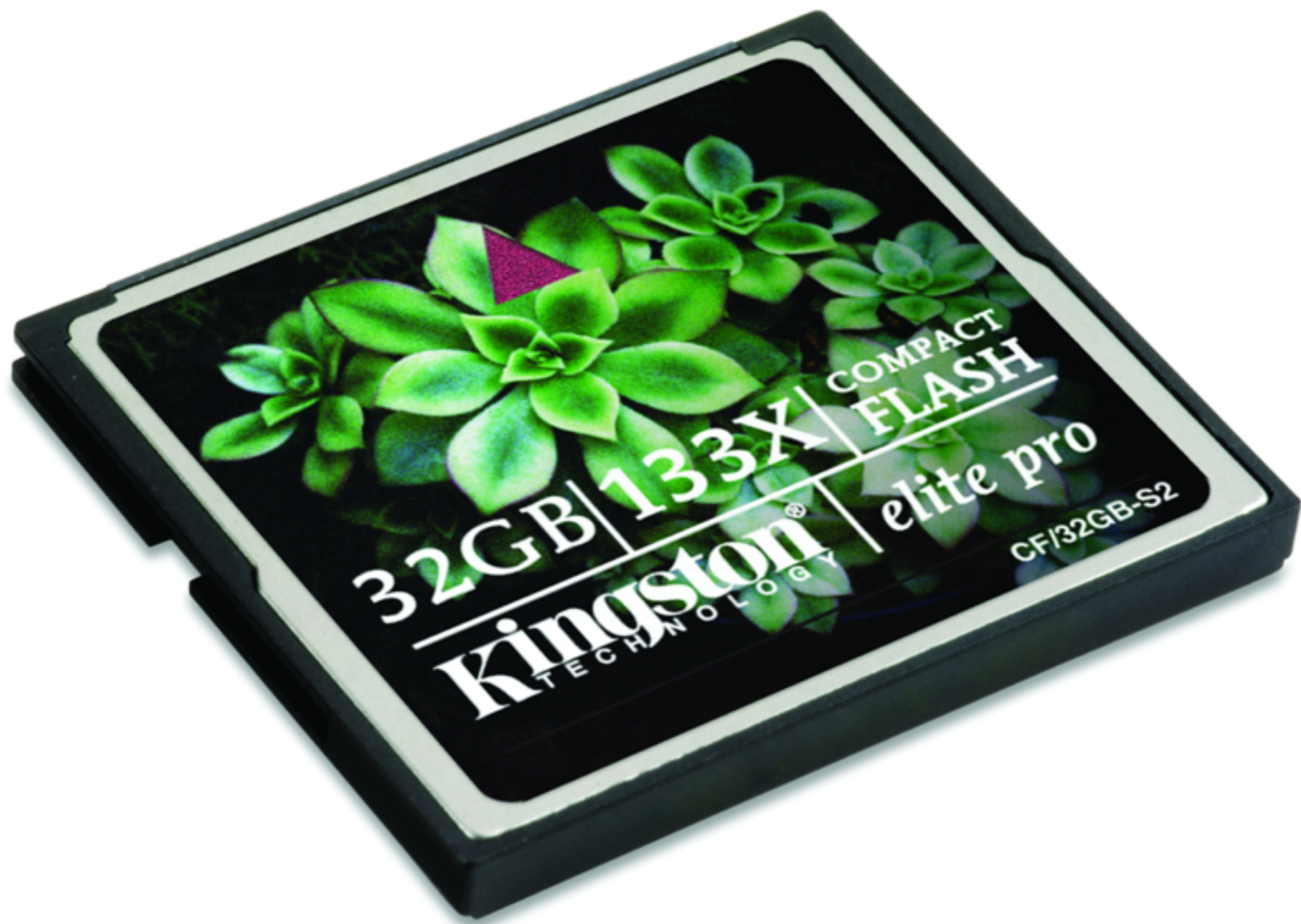




storage mediums



SD, SDHC, SDXC



32GB | 133X

COMPACT
FLASH

Kingston[®]
TECHNOLOGY

elite pro

CF/32GB-S2

Pro vs. Consumer dSLR

Entry Level

Nikon D3000

\$400-\$550



Entry Level

Nikon D3100

\$700 (new release)



Entry Level

Nikon D5000

\$650



Mid Level

Nikon D90

\$900



Mid Level

Nikon D7000

\$1200



Semi-Pro Level

Nikon D300s

\$1700



Almost-Pro Level

Nikon D700

\$2700





Pro Level

Nikon D3s

\$5200







SDHC

10.2 Megapixels

23.6 x 15.6 mm

100 to 3200 ISO

1/4000

3 fps



Compact Flash

12.1 Megapixels

36 x 23.9 mm

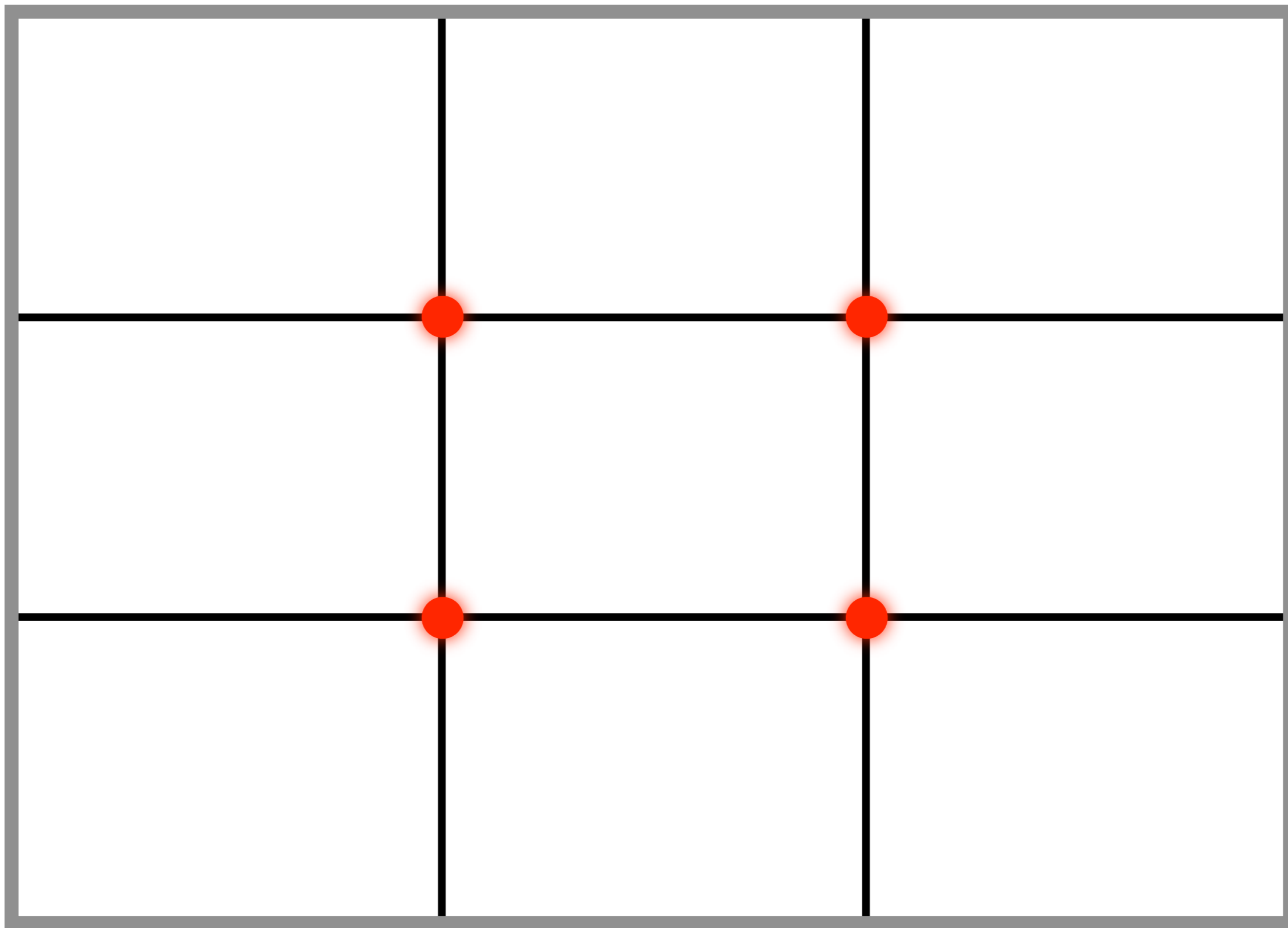
100 to 102,400 ISO

1/8000

9 fps

composition

rule of thirds

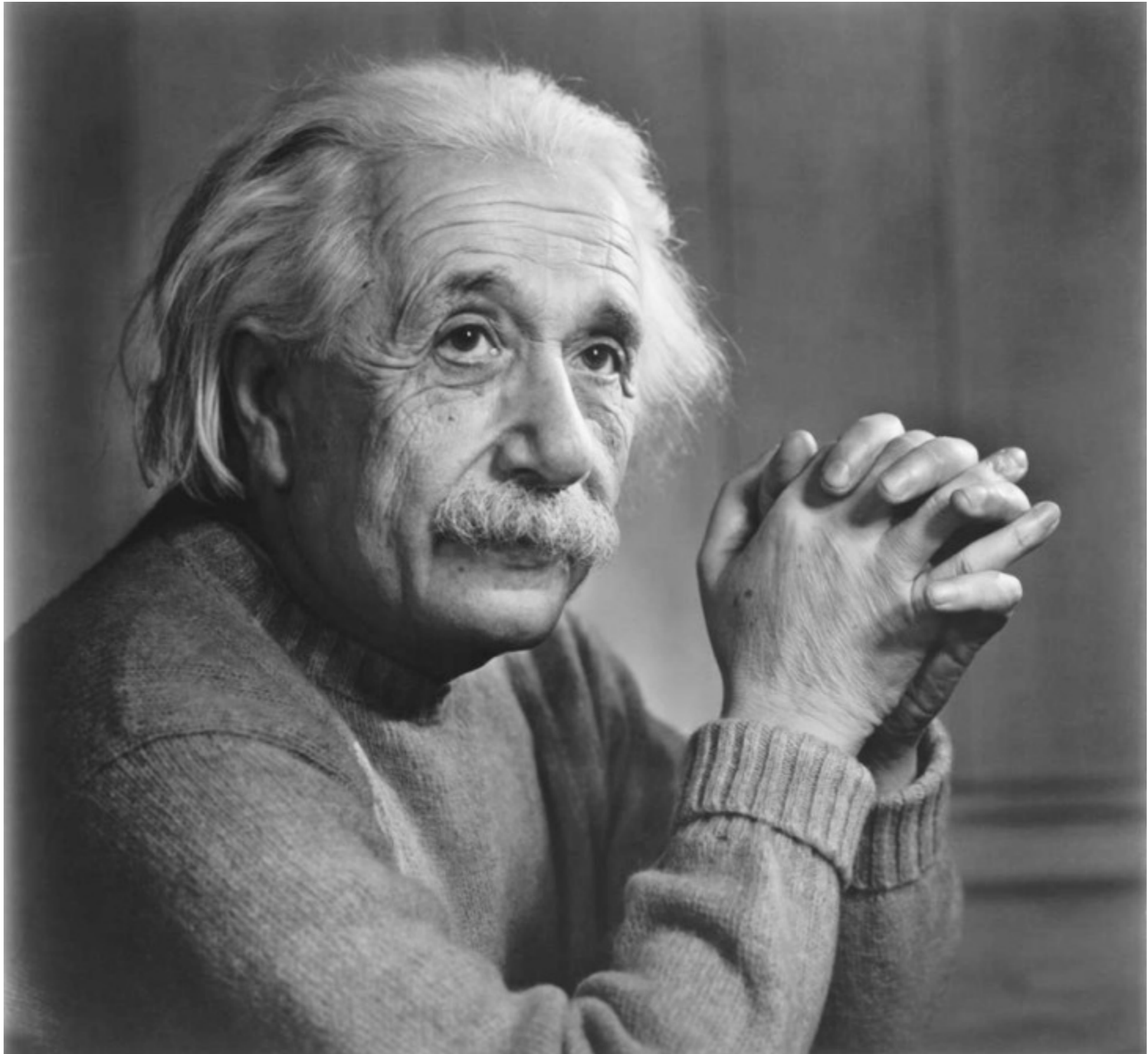




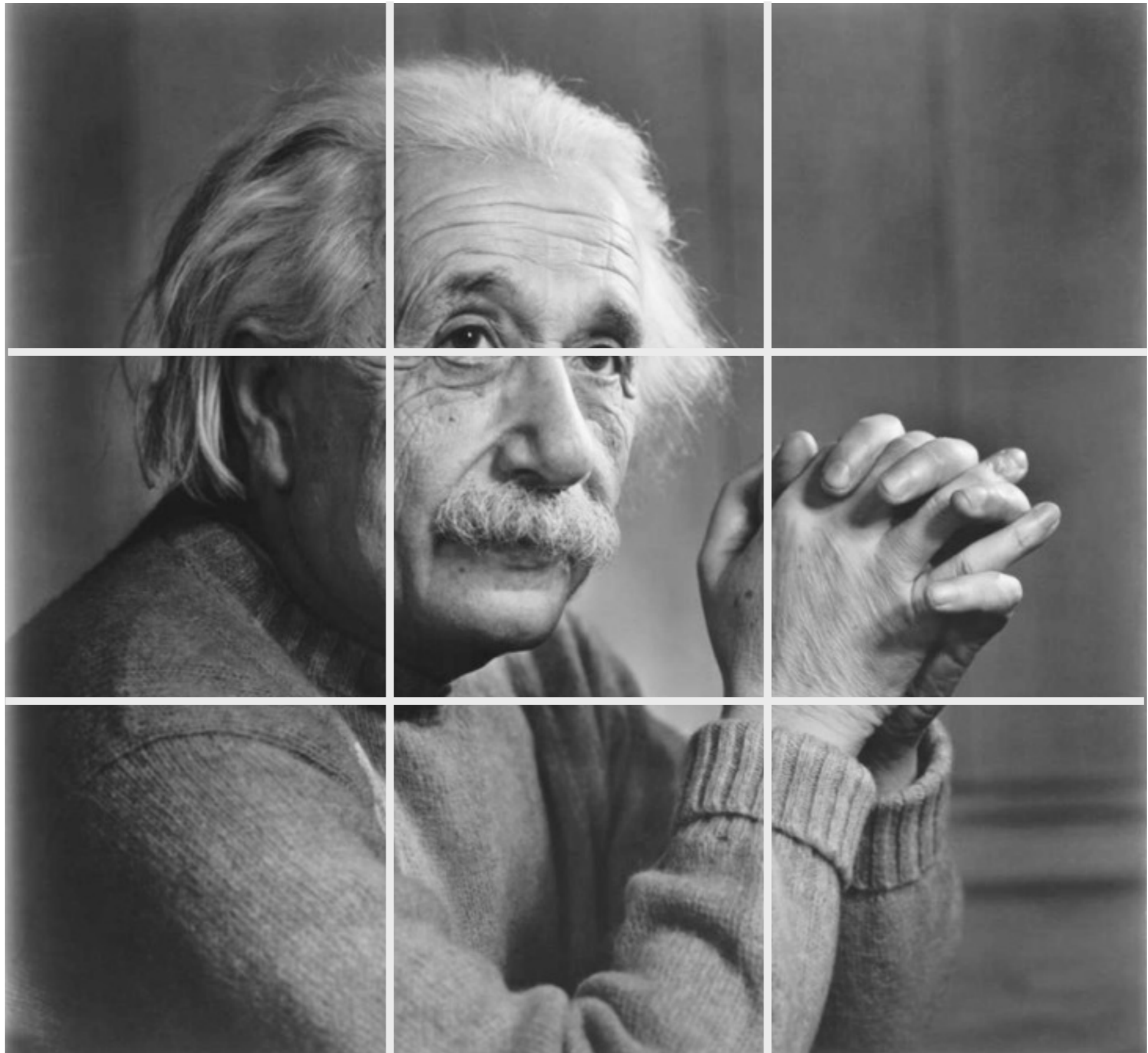
Richard Avedon



Richard Avedon



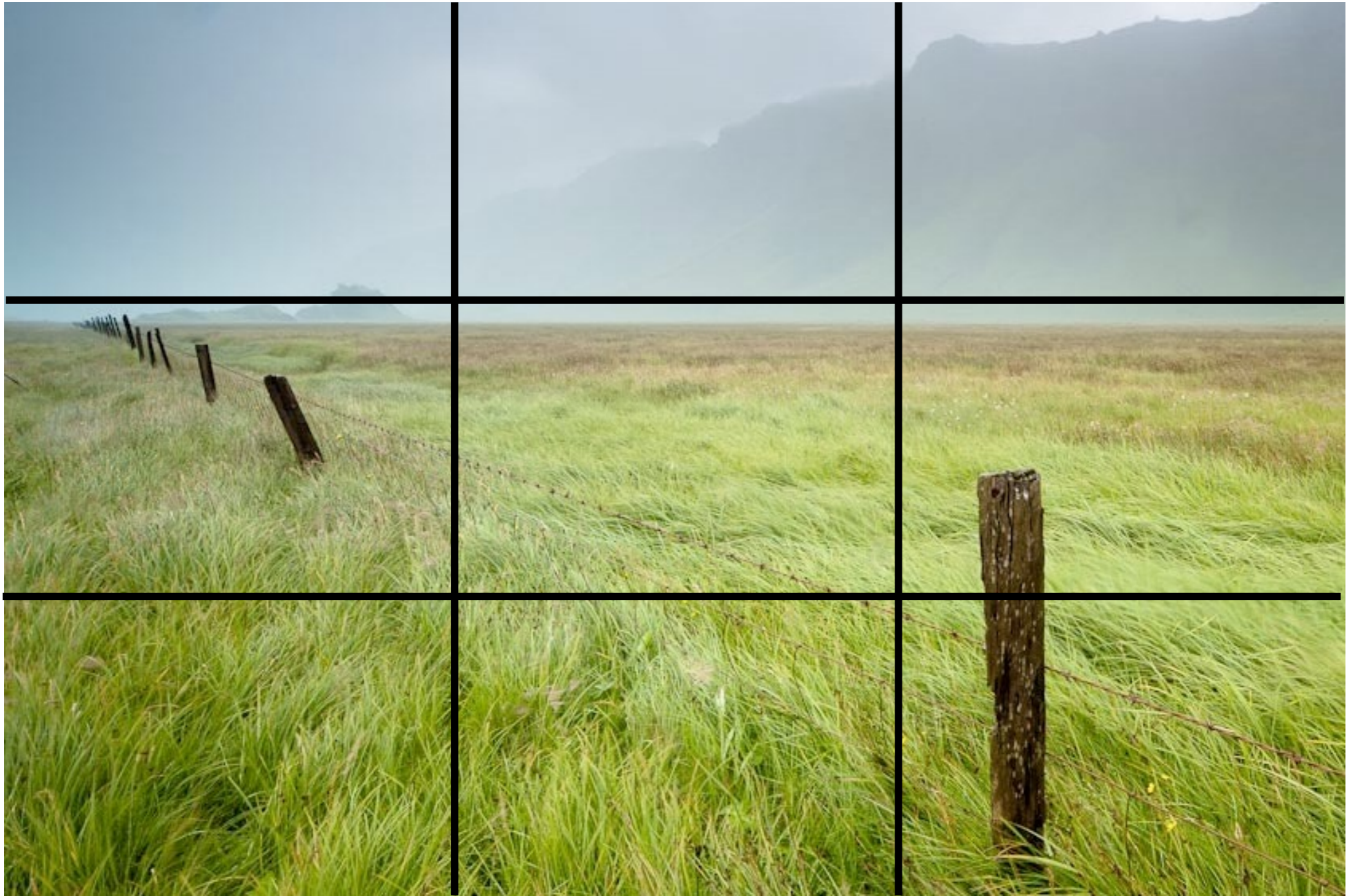
Yousuf Karsh



Yousuf Karsh



David Duchemin

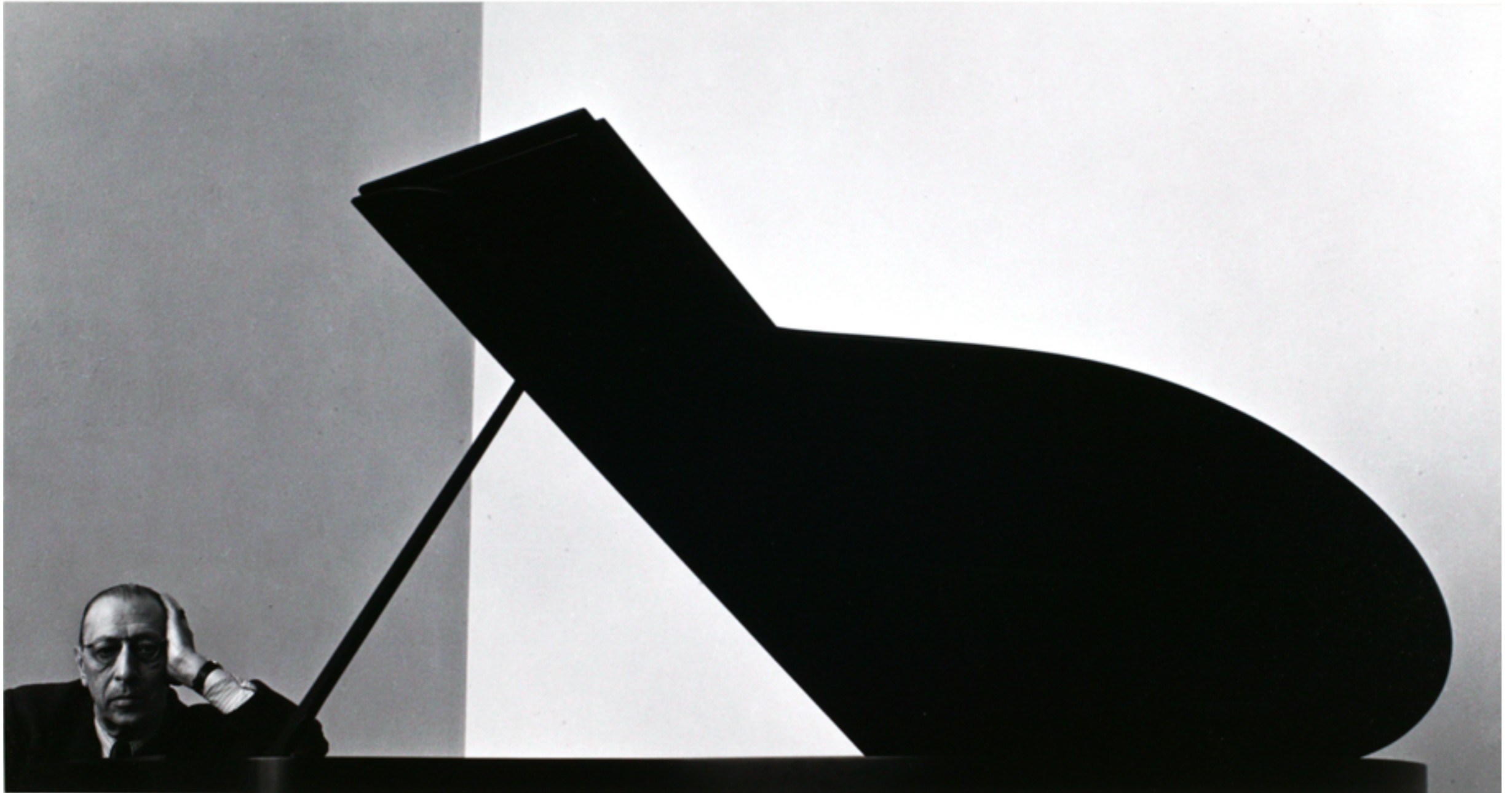


David Duchemin

simplicity



Man Ray



Arnold Newman



David Duchemin

lines



Richard Avedon



Astrid Riecken



Arno Rafael Minkkinen



Nick Rochowski



Dorival Moreira

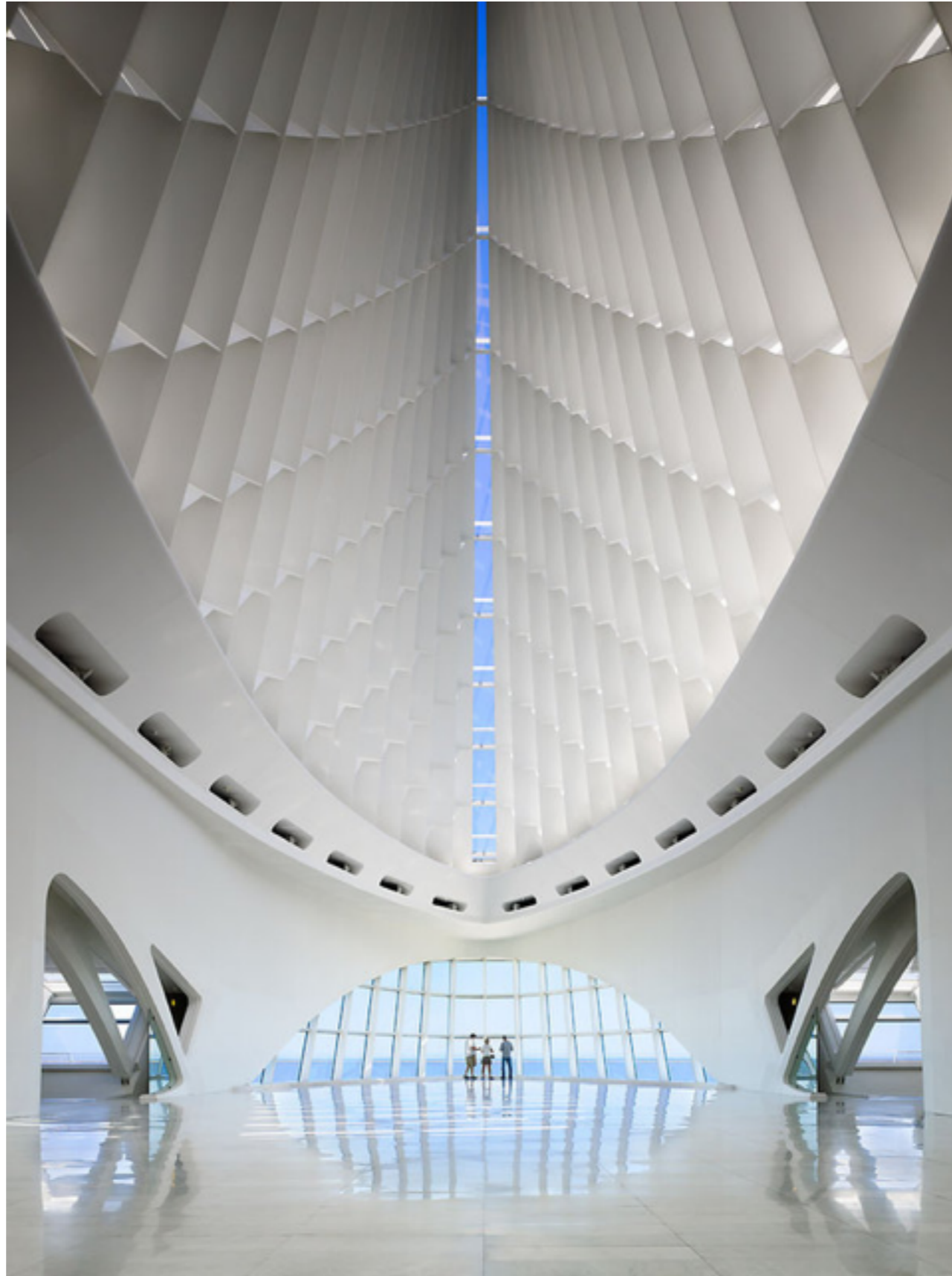
symmetry



Arno Rafael Minkkinen



Jimmy Williams



Mariusz Mizera

viewing angle



Cindy Sherman

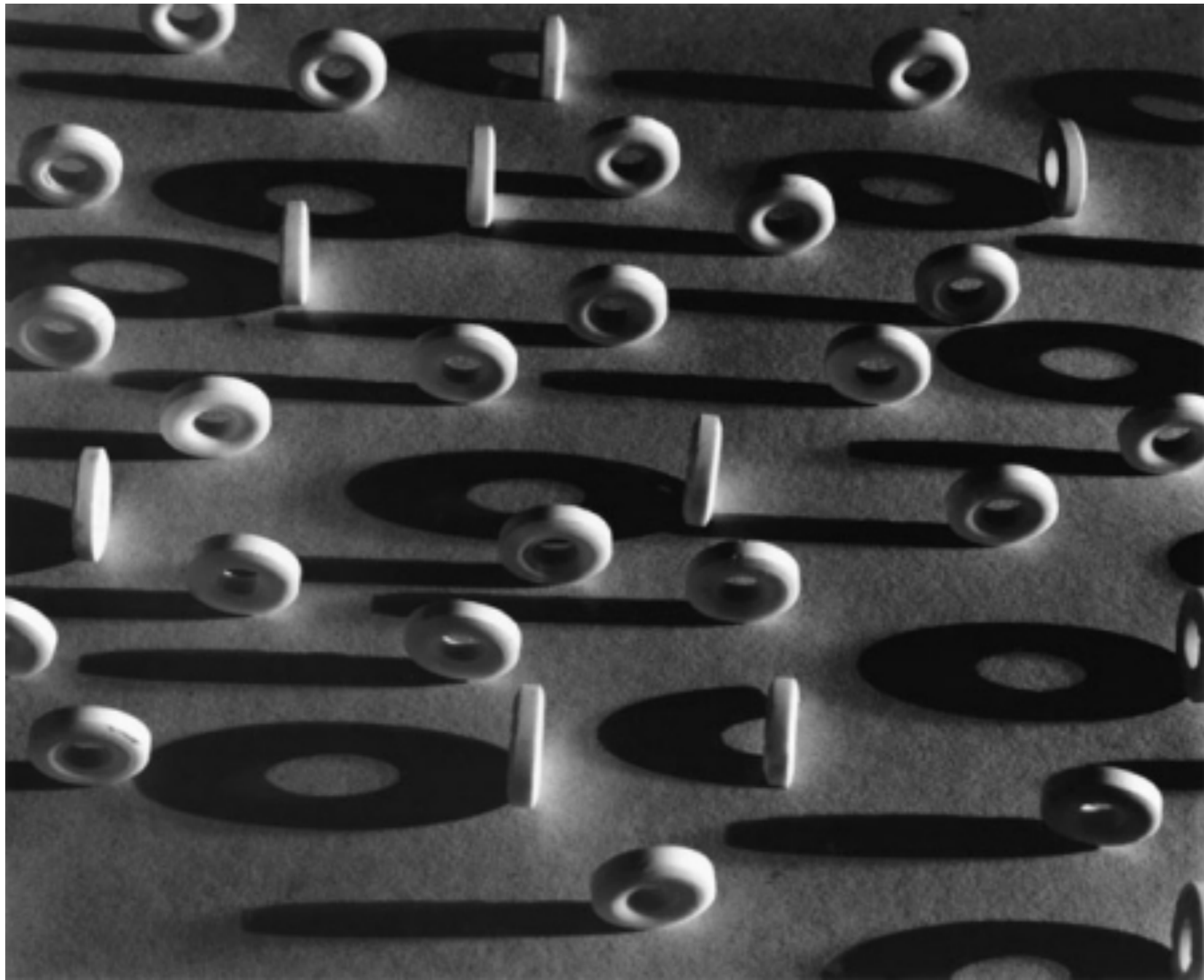


Bill Brandt

shadows



George Krause



Ruth Bernhard

color



William Christenberry



Pete Turner



Pete Turner

Assignment:

5 photos, each utilizing one or multiple composition techniques (try not to use the same technique twice---exception: rule of thirds).

email by Saturday evening