Fargelære & VITA-3D Fargeskalaen

Asbjørn Jokstad
Institutt for Klinisk Odontologi
Universitetet i Oslo
Lyskilder
Interaksjon - lys:materie
Colorette
\[ T_f = 5400 \, \text{K} \]
\[ R_a = 91 \]

LIVS
\[ T_f = 3300 \, \text{K} \]
\[ R_a = 74 \]
Direct sunlight
Blue sky light
Electric bulb light
Fluorescent lamp light

Dagslys
Lysrør

Direkte sollys
Glødelampe
At sunrise and sunset, red perception (red and orange) is seen. In the daytime, blue perception (bluish violet and blue) is observed. Sunlight is scattered by the Earth’s atmosphere, with long wavelength components (red and orange) penetrating through it.
Optimalt lys

Morgen  Middag  Kveld
Hvordan måles farger?

Kolorimetri
Fargetemperatur - Kelvin
Fargekule
CIE -Lab
Hvilke farger har tenner?
Metning
Kroma
Valør
Metning
Kroma
Valør

Fargekule
Metning
Kroma
Valør
Metning
Kroma
Valør
Hvordan illuderes farge på kunstige tenner?
Incidental light

Cervical portion: strong ivory color (yellow, orange, brown)

Pink gingival color

Middle portion: mixed shade of dentin color and enamel color

Diffuse transmission: darkness

Mirror transmission: translucency

Tip of the incisal portion: white due to total reflection

Mirror reflection: luster

Incisal portion: enamel color (blue-gray due to opalescence)

Orange due to opalescence
Specular (white) and diffuse reflection (yellow-orange)

Incident white light

Maximum diffuse transmission (high translucency)

Reduced diffuse transmission (yellow-orange)

Pink hue from gum

Direction of regular transmission if the tooth were made of transparent glass
Metning
Kroma
Valør
Fargeskalaer
VITAPAN 3D-MASTER

Color Communication Form

Laboratory: __________________________ Dentist: __________________________

Patient: __________________________ age: _______ male [ ] female [ ]

Tooth: _______

Remarks: __________________________

Lightness Level (Value)

1  2  3  4  5
light dark

Color Saturation (Chroma)

3  2  1
low high

L M R
yellow ← Hue → reddish

Date: __________ Shade taken by: __________ Shade: _______

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