



INTERNATIONAL
COLOR
CONSORTIUM

ICC Individual Colour Matching Functions Experts' Day

July 8, 2025
Vienna, Austria



ICC Mission Statement

*Create, promote and encourage evolution of an
open, vendor-neutral, cross-platform colour
management system architecture and components*





Founding Members

Adobe Systems Incorporated

Agfa-Gevaert N.V.

Apple Computer, Inc.

Eastman Kodak Company

FOGRA-Institute (Honorary)

Microsoft Corporation

Silicon Graphics Inc.

Sun Microsystems, Inc.

Taligent, Inc.





Today's ICC

55 international members.

11 Steering Committee meetings per year.

Regular ICC events in multiple countries.

3 full meetings per year on 3 different continents.

1 organization supporting industrial color interchange standards.





Join ICC!

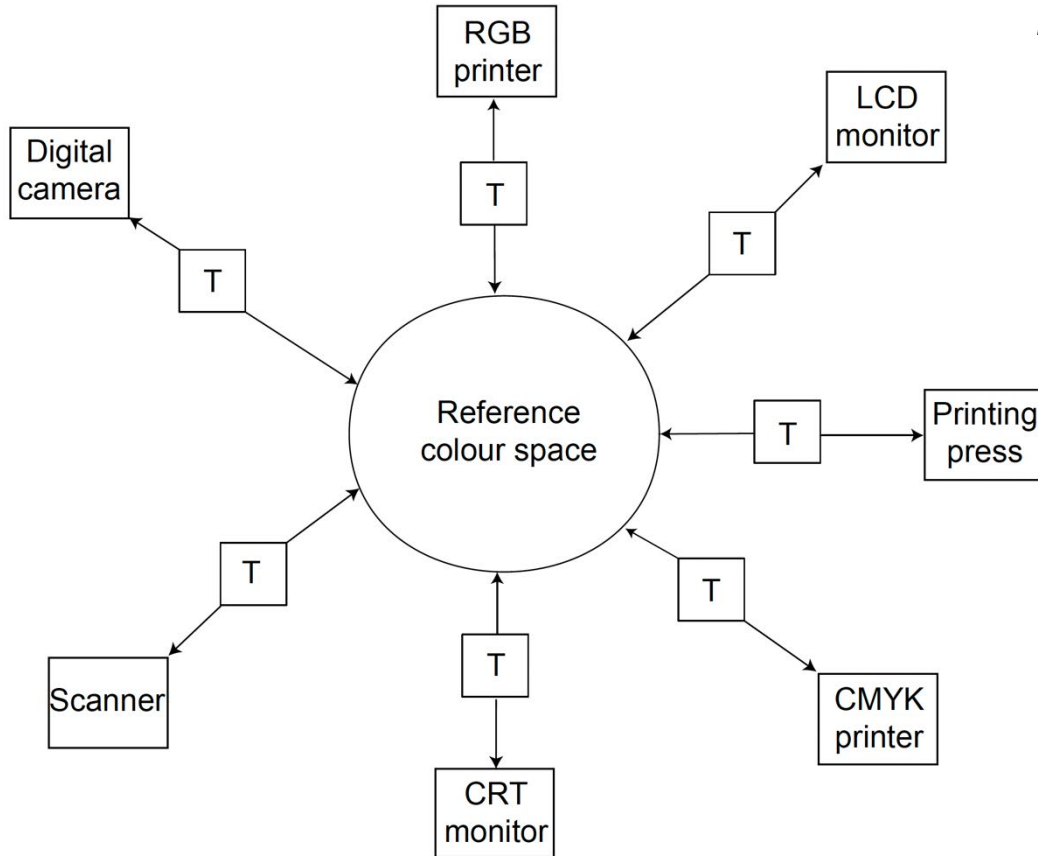
- **Active work areas:**
 - Packaging & Graphic Arts
 - Display
 - Architecture
 - HDR
- **Network:**
 - Active companies
 - Colour scientists
- **Look ahead:**
 - Confluence of standards organizations





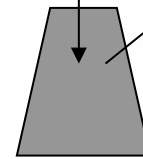
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INDIVIDUAL COLOUR MATCHING FUNCTIONS

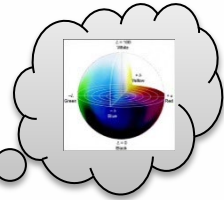
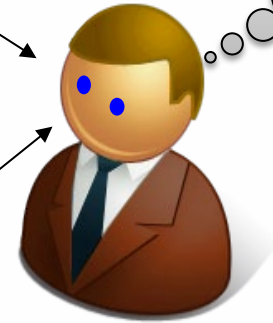


*ICC v4 only partially addresses the questions:
"What does it look like?"
"What is it?"*

1931 Standard
Observer



0/45
Reflectance





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Softproofing



Overall saturation is different



Challenges

- **Modern displays are now narrow band**
- **Everyone perceives colours differently**
- **Expectation of Colour Consistency on different applications**
- **No colour management workflow accounts for individual colour matching functions**



Today's Agenda

Cone spectral sensitivities, colour matching functions and individual differences	Andrew Stockman, University College London
Transforming between CMFs using a filter method	Luvín Ragoo, NTNU
Colour management of a display for an individual observer	Tanzima Habib, NTNU
Coffee Break	20 minutes
How individual CMFs can improve soft proofing	Chris Bai, BenQ
Correcting displays for individual differences in color appearance	Camilla Simoncelli, University of Nevada Reno
Implementing individual CMFs in ICC.1 and ICC.2	Max Derhak, Onyx Graphics
Towards standardization for display color consistency	Shahram Peyvandi, Apple
Reception	18:00 – 19:00