

Resource Summary Report

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Colour and Vision Research Laboratory

RRID:SCR_000770

Type: Tool

Proper Citation

Colour and Vision Research Laboratory (RRID:SCR_000770)

Resource Information

URL: <http://cvrl.ioo.ucl.ac.uk/index.htm>

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Description: The Colour & Vision Research laboratory and database are based at the Institute of Ophthalmology, which is part of University College London. The Institute and CVRL are both closely associated with Moorfields Eye Hospital. The Institute is next door to Moorfields Eye Hospital near Old Street tube station (see directions). At the Colour & Vision Research laboratory, we investigate normal and clinical human visual perception. Our research focuses on questions about colour perception, light and dark adaptation, night-time vision, and the temporal and spatial properties of vision. Our primary goal is to understand the nature of the mechanisms that underlie visual perception, and to understand how those mechanism malfunction in clinical cases. More details about our research can be found by looking at the publications of members of the laboratory. The CVRL database, first set up in 1995, provides an annotated library of downloadable standard data sets relevant to colour and vision research. The focus of this site is primarily scientific and technical, but some introductory background information is also provided. A consistent set of functions for modeling colour vision based on the Stockman & Sharpe cone fundamentals and on our more recent luminous efficiency measurements are summarized under the category CVRL functions. These functions are tabulated in 0.1, 1 and 5 nm steps and can be returned as csv, xml, or tabular data or as dynamic plots. The Stockman & Sharpe cone fundamentals are the basis of a CIE proposal for physiologically-relevant colour matching functions. These functions, which are identical to the CVRL functions, are summarized under the category CIE 2007 functions. The CIE functions are also tabulated in 0.1, 1 and 5 nm steps, and can also be returned as csv, xml, or tabular data or as dynamic plots. Significant additions to the database are the individual colour matching measurements made by Stiles & Burch. These have been compiled and cross-checked with the help of Boris Oicherman, Alexander Logvinenko, and Abhijit Sarkar from hard copies of the original data provided by Pat Trezona and Mike Webster. They can be obtained as Excel files and are available for both 2 and 10 colour matches. Other data sets, which are provided as csv files, include cone fundamentals, colour matching functions, chromaticity coordinates, prereceptor filter density spectra,

photopigment spectra, and CIE standards. Many of these data sets can also be viewed as dynamic plots. Sponsors: CVRL is funded by BBSRC The Wellcome Trust, Fight for Sight, National Eye Institute, and NIH.

Synonyms: CVRL

Resource Type: data or information resource, portal, organization portal, laboratory portal

Keywords: chromaticity, clinical, color, human, ophthalmology, perception, photopigment, research, spectra, temporal, vision, visual

Resource Name: Colour and Vision Research Laboratory

Resource ID: SCR_000770

Alternate IDs: nif-0000-24691

Record Creation Time: 20220129T080203+0000

Record Last Update: 20260808T185730+0000

Ratings and Alerts

No rating or validation information has been found for Colour and Vision Research Laboratory.

No alerts have been found for Colour and Vision Research Laboratory.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.