



BSI Standards Publication

Information technology — Office equipment — Vocabulary for office colour equipment

National foreword

This British Standard is the UK implementation of ISO/IEC 17823:2024. It supersedes BS ISO/IEC 17823:2015, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee IST/3, IT Printers and Cartridges.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 28, *Office equipment*.

This second edition cancels and replaces the first edition (ISO/IEC 17823:2015), which has been technically revised.

The main changes are as follows:

- new terms and definitions have been added;
- references have been updated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

Introduction

Technical colour terms have been published in various fields of standards such as colour photography, graphic technology printing and computer graphics. However, no standard colour terms have been published for office equipment.

As a result, misunderstandings between users and colour office equipment providers can occur when terms are interpreted differently.

The purpose of this document is to provide terminology for use by office equipment providers to help customers use their colour equipment effectively.

Information technology — Office equipment — Vocabulary for office colour equipment

1 Scope

This document provides definitions for colour terms used with office equipment, in particular for use with colour scanning and printing devices that have digital imaging capabilities, including multi-function devices.

This document is not intended to replace terms and definitions published in documents or user interfaces issued or created by manufacturers.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 colour balance

adjustment of colour channel gains or processing

3.1.1 grey balance

set of tone-values for cyan, magenta and yellow that are expected to appear as an achromatic grey under specified *viewing conditions* (3.12.11) when printed using the specified printing conditions

Note 1 to entry: There are three practical definitions and one theoretical definition for grey:

- a) practical definitions:
 - 1) colour having the same CIELAB a^* and b^* values as the print substrate;
 - 2) colour that has the same CIELAB a^* and b^* values as a half-tone *tint* (3.16.2) of similar L^* value printed with black ink;
 - 3) functional (linear or nonlinear) combination of both.
- b) theoretical definition:
 - 1) colour that the CIELAB a^* and b^* values both equal to 0.

[SOURCE: ISO/TS 10128:2023, 3.4, modified — Note 1 to entry has been modified.]

3.2 black