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Ergonomics — Accessible design —

Part 1: Colour combinations for young and older people without visual impairments

Ergonomie — Conception accessible —

Partie 1: Combinaisons de couleurs pour les jeunes et les personnes plus âgées sans déficience visuelle

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Contents

Page

Foreword ..... **iv**
Introduction ..... **v**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Factors affecting conspicuity of colour combinations **2**
4.1 General 2
4.2 Luminance level 2
4.3 Ageing effect 3
4.4 Viewing mode and condition 3
5 Colour combinations using fundamental colours and their conspicuity **3**
5.1 Fundamental colours and their combinations 3
5.2 Classification of the conspicuity of colour combinations 4
5.3 Tables of two-colour combinations of fundamental colours and their conspicuity 5
5.4 Span 1 of fundamental colours 7
6 Procedures to create a colour combination **8**
Annex A (normative) **Spans of fundamental colours (Span 2)** **18**
Annex B (informative) **Colouring example: A train network** **31**
Annex C (informative) **Guidance for transformation of Munsell colour system to CIE XYZ system and to sRGB system in monitor displays** **33**
Bibliography **34**

Foreword

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This document was prepared by Technical Committee ISO/TC 159, *Ergonomics*, Subcommittee SC 5, *Ergonomics of the physical environment*.

This first edition of ISO 24505-1, together with ISO 24505-2, and ISO 24505-3, cancels and replaces ISO 24505:2016, of which it constitutes a minor revision. The change is as follows:

— minor editorial changes.

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.

Introduction

While the social care of older people has widely spread in many countries, the design and production of visual signs and displays do not always take into account the unique needs of older people. This document presents a method for assessing and designing signs and displays in our visual environment so that they are clearly visible to older people. This document includes a method and data for creating conspicuous colour combinations in visual signs and displays seen by people at any age by considering age-related change of human colour vision.

A reasonably large number of people, especially men, have defective colour vision of various types, and some smaller part of the population have suffered from medical disorders of the eye such as low vision. This document is not applicable to colour combinations for people who have deficient colour vision or medical disorders affecting vision. Other International Standards provide methods to enable the creation of colour combinations for people with widely varying visual disabilities, including those for people with normal colour vision at any age, people with colour deficiencies and people with low vision, and for general guidance on the use of the colour-combination standard.

In describing colours in this document, the Munsell colour system is used, which is a colour-order system recommended by the Commission Internationale de l'Eclairage.[9]

This document adopts the principles of accessible design given in Reference [3] and amplified in Reference [4].