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# Information technology — Universal coded character set (UCS)

*Technologies de l'information — Jeu universel de caractères codés (JUC)*



Reference number  
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Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
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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 ISO documents 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)) or the IEC list of patent declarations received (see <http://patents.iec.ch>).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 2, *Coded character sets*.

This sixth edition of ISO/IEC 10646 cancels and replaces the fifth edition (ISO/IEC 10646:2017), which has been technically revised. It also incorporates ISO/IEC 10646:2017/Amd 1:2019 and ISO/IEC 10646:2017/Amd 2:2019.

This edition includes the following significant changes with respect to the previous edition:

- New scripts covered: Chorasmian, Dives Akuru, Dogra, Elymaic, Gunjala Gondi, Hanifi Rohingya, Khitan Small Script, Makasar, Medefaidrin, Nandinagari, Nyiakeng Puachue Hmong, Old Sogdian, Sogdian, Yezidi, Wancho;
- Existing scripts significantly extended: Georgian, CJK Unified Ideographs (Extension G);
- New symbol sets: Chess Symbols, Symbols for Legacy Computing;
- New set of Emoji symbols.

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](http://www.iso.org/members.html).

## Introduction

This document specifies the Universal Coded Character Set (UCS). It is applicable to the representation, transmission, interchange, processing, storage, input and presentation of the written form of the languages of the world as well as additional symbols.

By defining a consistent way of encoding multilingual text it enables the exchange of data internationally. The information technology industry gains data stability, greater global interoperability and data interchange. This International Standard has been widely adopted in new Internet protocols and implemented in modern operating systems and computer languages. This edition covers over 130 000 characters from the world's scripts.

The UCS is an encoding system different from that specified in ISO/IEC 2022. The method to designate UCS from ISO/IEC 2022 is specified in 13.2.

A graphic character will be assigned only one code point in the standard, located either in the BMP or in one of the supplementary planes.