# INTERNATIONAL STANDARD

ISO/IEC 11581-5

First edition 2004-05-15

Information technology — User system interfaces and symbols — Icon symbols and functions —

Part 5: Tool icons

Technologies de l'information → Interfaces pour système utilisateur et symboles — Symboles et fonctions d'icônes —

Partie 5: Icônes d'outils

ISO/IEC 11581-5:2004 https://standards.iteh.ai/catalog/standards/sist/0be8ec9f-b8c3-4421-8613-745c4fa4d716/iso-iec-11581-5-2004



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Published in Switzerland

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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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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.

ISO/IEC 11581-5 was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 35, User interfaces STANDARD PREVIEW

ISO/IEC 11581 consists of the following parts, under the general title Information technology — User system interfaces and symbols — Icon symbols and functions:

ISO/IEC 11581-5:2004

Part 1: Icons — General https://standards.iteh.ai/catalog/standards/sist/0be8ec9f-b8c3-4421-8613-

- 745c4fa4d716/iso-jec-11581-5-2004 Part 2: Object icons
- Part 3: Pointer icons
- Part 5: Tool icons
- Part 6: Action icons

### Introduction

Tools are the subset of the interactive icons that modify graphical or text elements of an application by association with real life tool objects. Tool icons represent tool functions such as drawing, painting, or modifying graphical elements. This part of ISO/IEC 11581 specifies the presentation and operation of tools.

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# Information technology — User system interfaces and symbols — Icon symbols and functions —

# Part 5: **Tool icons**

#### 1 Scope

ISO/IEC 11581 applies to icons that are shown on a screen, that users can manipulate and interact with, and that represent data or computer system functions. This part of ISO/IEC 11581 addresses only tool icons. Tool icons represent functions by association with real life tools. This part of ISO/IEC 11581 describes user interaction with and appearance of tools on the screen. It also specifies the relationship between tools and pointers. Other types of icons are covered in other parts of ISO/IEC 11581.

## 2 Conformance iTeh STANDARD PREVIEW

A system, application, or set of one of more icons conforms to this part of ISO/IEC 11581 if all tool icons available to the user in the system or application conform to clauses 5 and 6.1 of ISO/IEC 11581-1:2000 and to clause 6.1 of ISO/IEC 11581-3:2000, and to clauses 5 and 6.1 of this part of ISO/IEC 11581.

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#### 3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 11581-1:2000, Information technology — User system interfaces and symbols — Icon symbols and functions — Part 1: Icons — General

ISO/IEC 11581-2:2000, Information technology — User system interfaces and symbols — Icon symbols and functions — Part 2: Object icons

ISO/IEC 11581-3:2000, Information technology — User system interfaces and symbols — Icon symbols and functions — Part 3: Pointer icons

#### 4 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 11581-1, ISO/IEC 11581-2, ISO/IEC 11581-3 and the following apply.

#### 4.1

#### tool palette

bounded area displaying a matrix of available tools from which the user makes a selection

#### 4.2

#### tool pointer

changed graphic of the pointer resulting from the selection of the corresponding tool from the tool palette

NOTE A tool is an icon whose selection changes the function and shape of the pointer to perform a task with the associated tool depicted by the icon graphic (from ISO/IEC 11581-1:2000, clause 4.17).

#### 5 Conceptual construction of tools

The conceptual construction of tools is similar to that shown for object icons in clause 5 of ISO/IEC 11581-2:2000. The metaphor is that of pushing a button to invoke the associated functionality.

### 6 Tool requirements and recommendations

When a tool is selected from the palette, the pointer changes its shape to the corresponding tool pointer. The subclauses below describe requirements and recommendations for tools and their corresponding tool pointers. Tool pointers inherit requirements and recommendations of pointers as described in clause 6 of ISO/IEC 11581-3:2000.

#### 6.1 Requirements

The tool in the palette shall indicate to the user its associated function. At the same time the corresponding pointer shall confirm selection and prompt the user for the next available action.

#### 6.1.1 Arrangement

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All tools shall be grouped together in one or more tool palettes. Related tools shall be arranged adjacently within the tool palette. Other types of icons from other parts of ISO/IEC 1581 shall not be incorporated in the tool palette.

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#### 6.1.2 Selection

The selection of a tool shall be made by selecting a function with the pointer. Selections from the tool palette shall be mutually exclusive.

#### 6.1.3 Feedback

When selected, the tool in a palette shall show its selected state.

NOTE The pointer should change its shape to confirm the selection and reflect the function associated with the selected tool (see ISO/IEC 11581-3:2000, clause 6.1.5).

#### 6.1.4 Sensitive region and hot spot

Each tool on a palette shall have a sensitive region, typically an invisible overlay over the entire cell containing the tool graphic. The tool pointer shall have a hot spot. The hot spot of a tool pointer shall be intuitive and natural to the user. (The hot spot of the tool pointer is similar to that shown in clause 6.1.3 of ISO/IEC 11581-3:2000)

#### 6.1.5 Orientation

There shall be consistent orientation between all the graphics in a tool palette. Where appropriate, there shall be visual consistency in the orientation of the tool palette graphic and the tool pointer graphic.

#### 6.2 Recommendations

#### 6.2.1 Metaphor

The metaphor represented by the tool graphics should be directly related to the functionality of the tool.

#### 6.2.2 Typeface

A simple typeface should be employed if letters, numbers, punctuation marks, and mathematical symbols are used as integrated elements of the tool.

#### 6.2.3 Colour

The tool pointers should be black or white on a transparent background. The tools on the tool palette may be coloured but should be of similar visual weight when unselected.

#### 6.2.4 Feedback

The change of shape from the default pointer to the tool pointer should be consistent and predictable by the user.

### 7 Icon specifications

The following specifications for tools are developed based on clause 5. The illustrations represent the basic graphics for the tool subject to global variations (see ISO/IEC 11581-1:2000, clause 6.3) and the specific variations given in this clause, listed for each tool where appropriate.

Tools specified in this clause fall into two categories:81-5:2004

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- creation tools used for inputting text and graphics (7.1),04
- manipulation tools used for grouping and editing objects (7.2).

The categories fall into further subcategories as follows.

Creation tools (7.1):

- text creation (7.1.1),
- line and shape creation (7.1.2),
- area creation (7.1.3).

Manipulation tools (7.2):

- area selection (7.2.1).
- object manipulation (7.2.2),
- overview control (7.2.3).

Graphics for all categories are shown bounded by a grey cell. The size of the cell and the location of the tool within it are shown for illustration only, and are implementation dependent.

#### 7.1 Creation tools

#### 7.1.1 Text creation

#### **7.1.1.1** Text input

**Primary function.** To input or edit text in the area identified by the text pointer.

Specific instance. The letter "T".

Components. A normal weight, serifed, capital letter "T" or another generic letter.

Graphic.



**Corresponding tool pointer.** Text pointer specified in clause 8.1 of ISO/IEC 11581-3:2000 should be applied.

#### 7.1.2 Line and shape creation

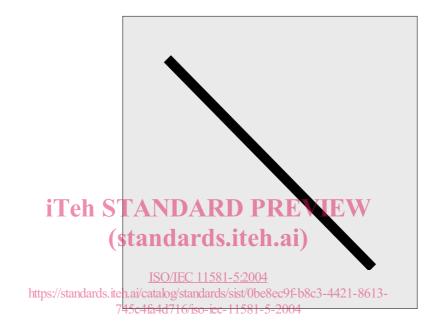
### 7.1.2.1 Straight line draw

**Primary function.** To draw a straight, constant width line.

Specific instance. A line segment.

**Components.** A diagonal line segment.

Graphic.



**Corresponding tool pointer.** The default pointer or the cross-hair pointer specified in clauses 7 and 8.3 of ISO/IEC 11581-3:2000.

#### 7.1.2.2 Freehand draw

**Primary function.** To draw a constant width, unconstrained line.

Specific instance. A freehand line.

Components. An irregular, curved line.

Graphic.



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**Corresponding tool pointer.** The default pointer or the cross-hair pointer specified in clauses 7 and 8.3 of ISO/IEC 11581-3:2000.