ISO/IEC 20071-11:2019-12 (E)

Information technology - User interface component accessibility - Part 11: Guidance on text alternatives for images

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1
3.1 Text alternatives and related definitions 1
3.2 Image and related definitions 2
3.3 Image types and related definitions 3
3.4 Image content and related definitions 3
3.5 Information relationship definitions 4
3.6 Information type definitions 4
3.7 Importance and related definitions 5

4 Text alternatives for images 6
4.1 Uses of text alternatives 6
4.2 Presenting text alternatives 7
4.2.1 General 7
4.2.2 Text alternatives within the main body of text 7
4.2.3 Primary alternative text 7
4.2.4 Secondary alternative text 8

5 Procedure for creating text alternatives 8

6 Identifying the types of image 9
6.1 General 9
6.2 Drawings 9
6.3 Photographs 10
6.4 Diagrams 10
6.5 Maps 10
6.6 Computer-generated illustrations 11
6.7 Composite images 11
6.8 Identifying image type in text alternatives 11
6.8.1 Identifying the image type of single images 11
6.8.2 Identifying image type of composite images with separately addressable components 11

7 Identifying the purpose of the image 12
7.1 Introduction to purposes 12
7.2 Informative purposes 12
7.3 Control purposes 13
7.4 Decorative purposes 13
7.4.1 Decorative images that convey affective information 13
7.4.2 Decorative images with minimal information value 13
7.5 Formatting purposes 14
7.6 Identifying purpose in text alternatives 14
7.6.1 Describing the purpose 14
7.6.2 Stating the purpose briefly 14
7.6.3 Avoiding redundancy with captions 15

7.6.4 Considering the context of use 15
7.6.5 Considering both objective and subjective purposes 15
7.6.6 Text alternatives for images used for formatting purposes 15
7.6.7 Further information for images used for informative purposes 15
7.6.8 Further information for images used for control purposes 16

8 Identifying the image components 16
8.1 Images and image components 16

8.2 Text components 16
8.3 Uniquely identifying image components 16
8.4 Structuring information about images and their components 17
8.5 Dealing with image complexity 18
8.5.1 Use of image components 18
8.5.2 Textual information in images 18
8.5.3 Information about whole images 19
8.5.4 Information about image components 19

9 Identifying the information (content) presented by the image 19
9.1 Content of an image or its components 19
9.2 Subjective content 19
9.3 Objective content 20
9.4 Relationship content 21
9.4.1 Relationships 21
9.4.2 Actions 21
9.4.3 Logical relationships 22
9.4.4 Temporal relationships 22
9.4.5 Physical (spatial) relationships 23
9.5 Interaction content 24
9.6 Analysing the information presented by an image 24

10 Evaluating the importance of the information about the image 25
10.1 Importance is context dependent 25
10.2 Importance 25
10.2.1 Levels of importance 25
10.2.2 Essential information 25
10.2.3 Significant information 26
10.2.4 Helpful information 26
10.2.5 Not important information 27
10.3 Textual content in images 27
10.4 Using importance to allocate information to text alternatives 28
10.4.1 Including subjective information in text alternatives 28
10.4.2 Including objective information in text alternatives 28
10.4.3 Including relationship information in text alternatives 28
10.4.4 Including information on associated activities in text alternatives 28
10.4.5 Dealing with large amounts of essential information 28
10.4.6 Placing text alternatives in the main body of text 28
10.4.7 Handling conflicting information 29

11 Compose the text alternatives 29
11.1 Composition 29
11.2 Organizing the information 29
11.2.1 Eliminating duplications 29
11.2.2 Fitting into the context of use of the image 30
11.2.3 Independence of importance from order 30
11.3 Wording text alternatives 30
11.3.1 Flow with the document content 30
11.3.2 Style 30
11.3.3 Conciseness and readability 31
11.4 Creating text alternatives 31

12 Evaluate the text alternative 31

12.1 The range of evaluation issues 31
12.2 The range of evaluation methods and testers 31

Annex A (informative) Further elaboration of objective content of images 33

Annex B (informative) Further considerations for particular types of images 37

Bibliography 41