ISO/IEC 30113-12:2019-11 (E)

Information technology - User interfaces - Gesture-based interfaces across devices and methods - Part 12: Multi-point gestures for common system actions

Contents

Page

Foreword vi

Introduction vii

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Visual description of multi-point gestures 4

5 General requirements and recommendations 6
5.1 Alternatives for multi-point gestures 6
5.2 Simple movements 6
5.3 Priority in assigning multi-point gestures 6
5.4 Choice of movement metaphor 6
5.5 Description of multi-point gestures 6

6 Alternatives for multi-point gestures 6

7 Descriptions of the multi-point gestures 7
7.1 The "2-point left" gesture 7
7.1.1 General 7
7.1.2 State description 8
7.1.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 9
7.1.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 10
7.2 The "2-point right" gesture 10
7.2.1 General 10
7.2.2 State description 11
7.2.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 12
7.2.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 12
7.3 The "2-point down" gesture 13
7.3.1 General 13
7.3.2 State description 13
7.3.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 14
7.3.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 15
7.4 The "2-point up" gesture 15
7.4.1 General 15
7.4.2 State description 16
7.4.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 17
7.4.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 18
7.5 The "2-point left flick" gesture 18
7.5.1 General 18
7.5.2 State description 18
7.5.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 19

7.5.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 20
7.6 The "2-point right flick" gesture 20
7.6.1 General 20
7.6.2 State description 20

7.6.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 21
7.6.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 21
7.7 The "2-point down flick" gesture 22
7.7.1 General 22
7.7.2 State description 22
7.7.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 23
7.7.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 23
7.8 The "2-point up flick" gesture 24
7.8.1 General 24
7.8.2 State description 24
7.8.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 25
7.8.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 25
7.9 The "2-point continuous any direction" gesture 26
7.9.1 General 26
7.9.2 State description 26
7.9.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 27
7.9.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 27
7.10 The "2-point pinch" gesture 27
7.10.1 General 27
7.10.2 State description 28
7.10.3 Specific instances 29
7.11 The "2-point spread" gesture 29
7.11.1 General 29
7.11.2 State description 30
7.11.3 Specific instances 31
7.12 The "2-point continuous pinch and spread" gesture 31
7.12.1 General 31
7.12.2 State description 31
7.12.3 Specific instances 32
7.13 The "2-point clockwise rotation" gesture 32
7.13.1 General 32
7.13.2 State description 33
7.13.3 Specific instances 34
7.14 The "2-point counter-clockwise rotation" gesture 34
7.14.1 General 34
7.14.2 State description 35
7.14.3 Specific instances 36
7.15 The "2-point continuous rotation" gesture 36
7.15.1 General 36
7.15.2 State description 36
7.15.3 Specific instances 37
7.16 The "2-point tap" gesture 37
7.16.1 General 37
7.16.2 State description 38
7.16.3 Specific instances 39
7.17 The "2-point double-tap" gesture 39
7.17.1 General 39
7.17.2 State description 40
7.17.3 Specific instances 41
7.18 The "2-point tap and hold" gesture 41
7.18.1 General 41
7.18.2 State description 41
7.18.3 Specific instances 42

7.19 The "3-point left" gesture 42
7.19.1 General 42
7.19.2 State description 43
7.19.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 44
7.19.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 45
7.20 The "3-point right" gesture 45
7.20.1 General 45
7.20.2 State description 45
7.20.3 Specific instances with a direct touch gesture or a mediated gesture in applying "content-mover" metaphor 46
7.20.4 Specific instances with a mediated gesture in applying "window-mover" metaphor 47
7.21 The "3-point down" gesture 47
7.21.1 General 47
7.21.2 State description 48
7.21.3 Specific instances 49
7.22 The "3-point up" gesture 49
7.22.1 General 49
7.22.2 State description 50
7.22.3 Specific instances 51
7.23 The "3-point tap" gesture 51
7.23.1 General 51
7.23.2 State description 51
7.23.3 Specific instances 52
7.24 The "3-point double-tap" gesture 52
7.24.1 General 52
7.24.2 State description 53
7.24.3 Specific instances 54

Bibliography 55