

Request #: HUTRR53  
Title: Stylus Preferred Ink Color  
Spec Release: 1.12  
Received: 15 July 2015  
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Current Status: Approved  
Priority: Normal  
Submitted: 26 July 2015  
Voting Starts: 14 August 2015  
Voting Ends: 21 August 2015  
Required Voter: Microsoft (Nathan Sherman, Chair)  
Required Voter: Logitech (Mark Lavelle)  
Required Voter: Intel (Steve McGowan)  
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Summary:

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Add a usage so that a stylus transducer can indicate its preferred inking color.

Background:

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Some mechanical pens use transparency, or color a portion of the pen body, to indicate what color of ink it contains. In some instances there are "selector switches" on the tail of the pen to change the ink color. This proposed usage allows an electronic stylus to indicate a body color (such as for a set of virtual crayons) or inking color (in cases where selector switches are provided). It also affords the potential to upload a current inking color to provide persistence over time or between different digitizers.

Proposal:

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All changes are localized to Chapter 16 Digitizers (0x0D) in the HID Usage Tables document v1.12 except as noted.

New usages to be added to Table 18: Digitizer Page

5C	Preferred Color	DV	16.3.1
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Additions referenced by the above usages:

Section 16.3.1 Digitizer-Specific Fields

Preferred Color DV - An indication of what color ink the transducer would prefer to render. This may be an indication of the body color (for a set of virtual crayons) or might be an indication of a switch selection (for example tail switches to choose color in a fashion similar to multi-color inking pens). If the transducer allows writing to the usage it may store a color for later retrieval. Only two data sizes are allowed, 8 bits and 24 bits. An eight-bit value specifies a color index based on the W3C named colors from <http://www.w3.org/TR/SVG/types.html#ColorKeywords> or

<http://www.w3.org/TR/css3-color/> with the elimination of the grey/gray duplicates. The color name to index mapping is presented in Appendix D: Indices for 8 Bit Preferred Colors. A value of 0xFF indicates no preferred color. A 24-bit value specifies three 8 bits values for RGB color in that order. It is not possible to indicate no preferred color when using 24 bit values.

Change the following in Table 18 Digitizer Page:

From:

Usage ID: 47-FFFF

Usage Name: Reserved

To:

Usage ID: 4A-50

Usage Name: Reserved

Usage ID: 56-59

Usage Name: Reserved

Usage ID: 5D-FFFF

Usage Name: Reserved

#### Appendix D: Indices for 8 Bit Preferred Colors

Index	Name	RGB Values
0	AliceBlue	#F0F8FF
1	AntiqueWhite	#FAEBD7
2	Aqua	#00FFFF
3	Aquamarine	#7FFFD4
4	Azure	#F0FFFF
5	Beige	#F5F5DC
6	Bisque	#FFE4C4
7	Black	#000000
8	BlanchedAlmond	#FFEBCD
9	Blue	#0000FF
10	BlueViolet	#8A2BE2
11	Brown	#A52A2A
12	BurlyWood	#DEB887
13	CadetBlue	#5F9EA0
14	Chartreuse	#7FFF00
15	Chocolate	#D2691E
16	Coral	#FF7F50
17	CornflowerBlue	#6495ED
18	Cornsilk	#FFF8DC
19	Crimson	#DC143C
20	Cyan	#00FFFF
21	DarkBlue	#00008B
22	DarkCyan	#008B8B
23	DarkGoldenRod	#B8860B
24	DarkGray	#A9A9A9
25	DarkGreen	#006400
26	DarkKhaki	#BDB76B
27	DarkMagenta	#8B008B
28	DarkOliveGreen	#556B2F
29	DarkOrange	#FF8C00
30	DarkOrchid	#9932CC
31	DarkRed	#8B0000
32	DarkSalmon	#E9967A
33	DarkSeaGreen	#8FBC8F
34	DarkSlateBlue	#483D8B

35	DarkSlateGray	#2F4F4F
36	DarkTurquoise	#00CED1
37	DarkViolet	#9400D3
38	DeepPink	#FF1493
39	DeepSkyBlue	#00BFFF
40	DimGray	#696969
41	DodgerBlue	#1E90FF
42	FireBrick	#B22222
43	FloralWhite	#FFFAF0
44	ForestGreen	#228B22
45	Fuchsia	#FF00FF
46	Gainsboro	#DCDCDC
47	GhostWhite	#F8F8FF
48	Gold	#FFD700
49	GoldenRod	#DAA520
50	Gray	#808080
51	Green	#008000
52	GreenYellow	#ADFF2F
53	HoneyDew	#F0FFF0
54	HotPink	#FF69B4
55	IndianRed	#CD5C5C
56	Indigo	#4B0082
57	Ivory	#FFFFFF
58	Khaki	#F0E68C
59	Lavender	#E6E6FA
60	LavenderBlush	#FFF0F5
61	LawnGreen	#7CFC00
62	LemonChiffon	#FFFACD
63	LightBlue	#ADD8E6
64	LightCoral	#F08080
65	LightCyan	#E0FFFF
66	LightGoldenRodYellow	#FAFAD2
67	LightGray	#D3D3D3
68	LightGreen	#90EE90
69	LightPink	#FFB6C1
70	LightSalmon	#FFA07A
71	LightSeaGreen	#20B2AA
72	LightSkyBlue	#87CEFA
73	LightSlateGray	#778899
74	LightSteelBlue	#B0C4DE
75	LightYellow	#FFFFE0
76	Lime	#00FF00
77	LimeGreen	#32CD32
78	Linen	#FAF0E6
79	Magenta	#FF00FF
80	Maroon	#800000
81	MediumAquaMarine	#66CDAA
82	MediumBlue	#0000CD
83	MediumOrchid	#BA55D3
84	MediumPurple	#9370DB
85	MediumSeaGreen	#3CB371
86	MediumSlateBlue	#7B68EE
87	MediumSpringGreen	#00FA9A
88	MediumTurquoise	#48D1CC
89	MediumVioletRed	#C71585
90	MidnightBlue	#191970
91	MintCream	#F5FFFA

92	MistyRose	#FFE4E1
93	Moccasin	#FFE4B5
94	NavajoWhite	#FFDEAD
95	Navy	#000080
96	OldLace	#FDF5E6
97	Olive	#808000
98	OliveDrab	#6B8E23
99	Orange	#FFA500
100	OrangeRed	#FF4500
101	Orchid	#DA70D6
102	PaleGoldenRod	#EEE8AA
103	PaleGreen	#98FB98
104	PaleTurquoise	#AFEEEE
105	PaleVioletRed	#DB7093
106	PapayaWhip	#FFefd5
107	PeachPuff	#FFDAB9
108	Peru	#CD853F
109	Pink	#FFC0CB
110	Plum	#DDA0DD
111	PowderBlue	#B0E0E6
112	Purple	#800080
113	RebeccaPurple	#663399
114	Red	#FF0000
115	RosyBrown	#BC8F8F
116	RoyalBlue	#4169E1
117	SaddleBrown	#8B4513
118	Salmon	#FA8072
119	SandyBrown	#F4A460
120	SeaGreen	#2E8B57
121	SeaShell	#FFF5EE
122	Sienna	#A0522D
123	Silver	#C0C0C0
124	SkyBlue	#87CEEB
125	SlateBlue	#6A5ACD
126	SlateGray	#708090
127	Snow	#FFFAFA
128	SpringGreen	#00FF7F
129	SteelBlue	#4682B4
130	Tan	#D2B48C
131	Teal	#008080
132	Thistle	#D8BFD8
133	Tomato	#FF6347
134	Turquoise	#40E0D0
135	Violet	#EE82EE
136	Wheat	#F5DEB3
137	White	#FFFFFF
138	WhiteSmoke	#F5F5F5
139	Yellow	#FFFF00
140	YellowGreen	#9ACD32
141 - 254	Reserved	
255	No Preferred Color	