

UGRA

Display Analysis & Certification Tool

Report

Basics

Date: 2014-2-14 18:47:51
Report-Version: v2.0.0
Monitor-Name: \\.\DISPLAY1
EDID-Name: DELL U2711
EDID-Serial: G606T19U0AGL
Profile: C:/Windows/system32/spool/.../DELL U2711 i1Profiler 14-02-2014.icm
Created: 2014-2-14 16:13
Measurement device: i1Pro, Rev. 3, Serial: 1006031
Evaluation method: UDACT v2.0

Summary

Calibration (Reference Whitepoint: 5500.00 Kelvin)

White Point	yes
Gray balance	no
Tone values	no
Profile quality	no
Gamut ability	no

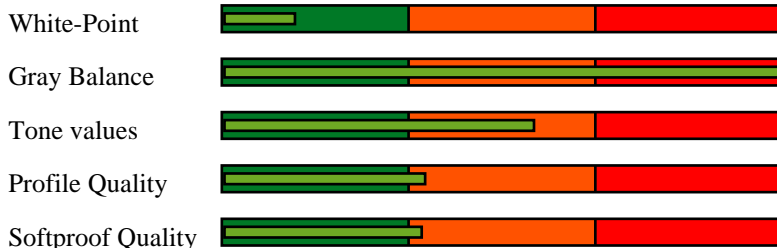


The monitor has
not passed the certification
according to the UDACT v2.0
specifications.

Softproof quality (depends on the calibration verification)

ISO Coated v2 (FOGRA39L)	no
sRGB	no
AdobeRGB	no
ECI-RGB v2.0	no

Diagram



Whitepoint

The whitepoint should be as close as possible to the black body curve and the calibration target. The maximum allowed distance to the target whitepoint is 2.0 dE00.

XYZ (measured):	120.35 125.94 114.79
XYZ (normalized):	95.56 100.00 91.15
xy:	0.3333 0.3488
Luminance:	125.9 Cd/m2
Next Temperature:	5465 Kelvin
Reference Whitepoint:	5500.0 Kelvin
Deviation XYZ to Reference Whitepoint:	0.8 dE00
	0.7 dE76

Blackpoint

The blackpoint is not defined in ISO 12646. Therefore UDACT does only measure but not assess it.

Luminance:	0.3 Cd/m2
Chromaticity:	1.0 Chroma (Lab)

Gray balance

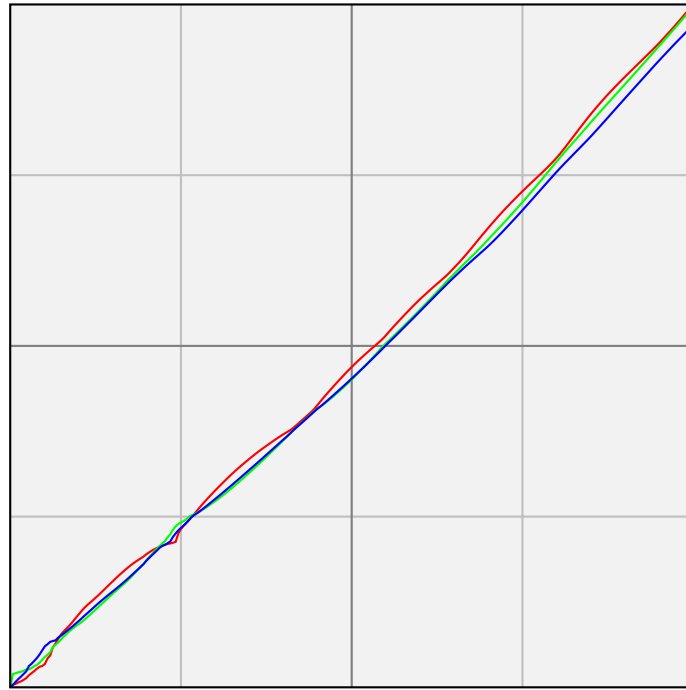
Average and maximum calculation will respect measurements with 1% minimum luminance only. The L-deviation shows the difference between the profile and measurement value.

The maximum allowed deviations to comply with this test are an average of 1.0 DeltaC, a range of 2.0 DeltaC. A maximum L-deviation of 2.3 dL00 in the luminance range of 20%-100% shall not be exceeded.

%	Kelvin	Cd/m2	L	Chroma	Gamma	Delta-L
0	7329	0.26	1.84	1.00		
5	11858	0.24	1.73	1.97	2.95	+0.6
10	5115	0.93	6.66	2.15	2.25	+1.1
15	4617	1.98	13.05	3.70	2.24	+0.1
20	5105	3.73	19.88	1.59	2.23	+0.0
25	5972	6.27	26.67	4.18	2.22	+0.8
30	5252	8.86	31.89	1.65	2.22	-0.1
35	5165	12.49	37.70	2.45	2.21	-0.1
40	5515	16.66	43.11	0.44	2.22	-0.3
45	5682	21.60	48.45	2.02	2.23	-0.0
50	5366	26.89	53.33	1.47	2.23	-0.4
55	5474	33.57	58.66	0.19	2.22	-0.2
60	5439	40.56	63.51	0.37	2.22	-0.4
65	5564	48.07	68.15	0.88	2.23	-0.3
70	5425	56.81	72.96	0.38	2.24	-0.3
75	5442	66.30	77.66	0.50	2.23	-0.3
80	5554	76.83	82.38	0.89	2.22	-0.2
85	5435	86.97	86.53	0.49	2.28	-0.2
90	5430	99.08	91.09	0.87	2.25	-0.2
95	5481	111.67	95.44	0.48	2.30	-0.2
100	5465	125.94	100.00	0.00		
Average	5457			1.11	2.27	0.2
Max				4.18		0.8
Range				7.85		

Tone values

This tests checks the calibration curves (vcgt) of the graphic card. Through the calibration of a display tone values can be lost. A display for the printing industry should show at least 95% of the incoming tone values.



Tone values = 91.6%

Profile Quality

This test displays and measures RGB values and compares them with the transformation of the profile. The maximum allowed deviations to comply with this test are an average of 2.0 dE00 and a maximum of 4.0 dE00.

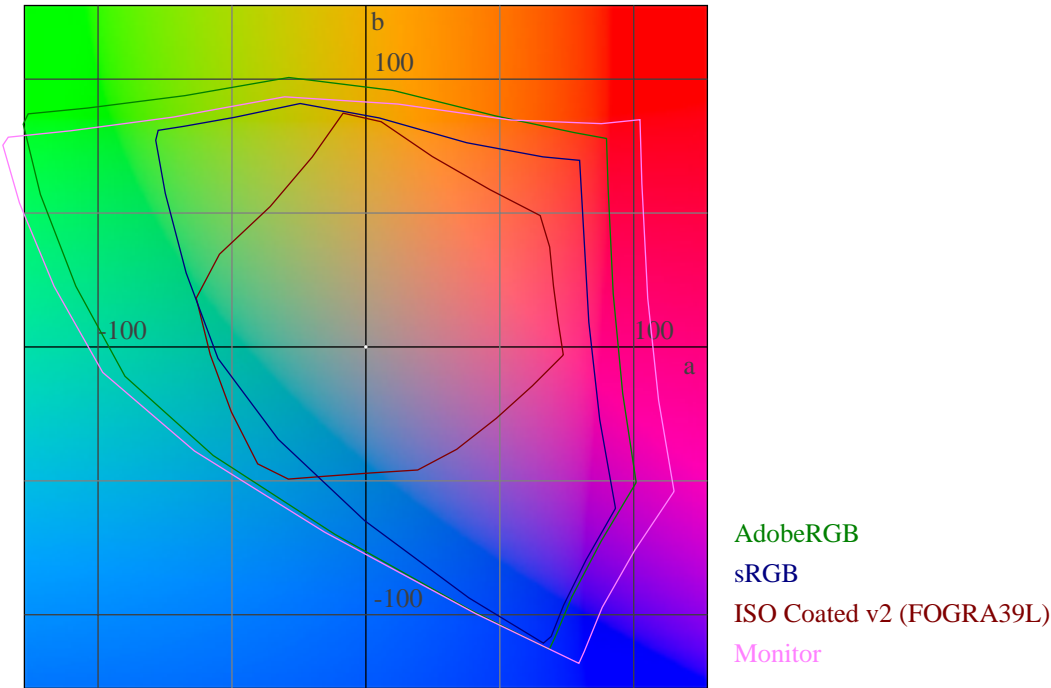
The Lab values are calculated, based on the measured white point (xy: 0.3333 0.3488).

RGB	Lab	deltaLab	dE76	dE00
0 0 0	1.8 -0.9 -0.4	-1.8 0.9 0.4	2.1	1.7
0 0 128	10.6 48.4 -69.3	-1.2 0.3 -2.7	3.0	1.2
0 0 255	27.2 83.9 -117.5	-1.2 -3.3 -1.5	3.9	1.9
0 128 0	44.4 -83.1 45.9	1.1 0.4 1.5	1.9	1.1
0 128 128	46.3 -53.3 -12.3	0.6 -2.2 0.2	2.2	0.9
0 170 255	63.8 -31.9 -57.4	-0.2 -3.8 0.1	3.8	1.5
0 255 0	85.7 -139.7 78.9	-0.1 3.0 -0.5	3.0	0.4
0 255 170	86.7 -117.2 21.9	-0.2 1.2 -1.0	1.6	0.4
0 255 255	88.2 -90.4 -19.8	-0.3 -1.3 -0.3	1.4	0.3
85 85 85	35.8 3.2 0.3	0.3 -3.2 -0.3	3.2	4.3
128 0 0	29.7 61.3 45.9	0.2 1.0 1.7	2.0	0.6
128 0 128	32.3 70.2 -32.7	0.1 -0.3 -0.1	0.3	0.1
128 128 0	52.1 -9.2 58.1	0.9 -1.1 0.4	1.5	1.1
128 128 128	53.7 1.6 -0.6	0.5 -1.6 0.6	1.8	2.4
128 128 255	57.8 31.8 -66.5	0.0 -3.8 0.5	3.8	2.1
128 255 128	89.2 -88.6 46.6	-0.1 1.3 -0.6	1.4	0.3
170 0 255	47.4 98.9 -82.9	0.0 -1.9 0.6	2.0	0.4
170 170 170	70.0 0.2 -0.4	0.3 -0.2 0.4	0.6	0.6
170 255 0	91.0 -72.3 87.5	0.1 2.5 -0.9	2.7	0.6
170 255 255	93.4 -43.1 -11.1	-0.1 -0.3 -0.1	0.4	0.1
255 0 0	59.7 102.8 89.1	0.3 0.2 -3.9	3.9	1.3
255 0 170	61.5 109.0 -10.1	0.3 -0.6 0.2	0.7	0.2
255 0 255	64.0 117.1 -54.7	0.1 -1.5 0.5	1.6	0.3
255 128 128	71.7 68.3 29.1	0.5 -0.9 0.4	1.1	0.5
255 170 0	79.0 38.5 88.3	0.5 -0.1 -1.4	1.5	0.5
255 170 255	82.0 55.8 -26.6	0.1 -1.1 0.3	1.1	0.3
255 255 0	98.0 -18.7 98.3	0.2 1.6 -1.6	2.3	0.7
255 255 170	98.9 -10.7 41.3	0.1 0.9 -0.3	1.0	0.6
255 255 255	100.0 0.0 0.0	-0.0 0.0 -0.0	0.0	0.0
170 85 85	48.9 50.9 21.8	0.7 -0.5 0.2	0.9	0.8
85 170 85	62.1 -64.5 35.0	0.0 -0.7 -0.7	1.0	0.4
85 85 170	38.8 25.5 -49.3	0.0 -4.4 0.1	4.4	2.8
85 170 170	63.6 -44.7 -11.1	-0.1 -2.2 -0.3	2.2	0.7
170 85 170	50.9 60.5 -29.0	0.5 -1.4 0.9	1.7	0.6
170 170 85	68.9 -10.9 45.8	0.3 1.2 -0.3	1.3	0.8
Average			1.9	0.9
Maximum			4.4	4.3

Gamut-Volume





These measurements are only informative.

ISO Coated v2 (FOGRA39L)	100 %
sRGB	100 %
AdobeRGB	98 %
ECI-RGB v2.0	93 %



Softproof Quality

The measurements are converted to Lab values based on the measured whitepoint (xy: 0.3333 0.3488) and compared with the selected reference. The maximum allowed deviations to comply with this test are an average of 2.0 dE00 and a minimum Gamut volume of 90% for ISO Coated v2 (FOGRA39L).

		Limit	dE00
Average		2.0	1.1
Maximum		4.0	4.3
Primaries		5.0	3.3
Composite Gray Max		3.0	2.3

Reference (Lab)	Measurement (Lab)	Measurement (Yxy)	dE76	dE00
55.0 -37.0 -50.0	55.5 -30.9 -48.8	23.44 0.1781 0.2535	6.3	2.3
66.9 -24.7 -37.1	66.8 -22.6 -37.0	36.33 0.2302 0.2907	2.1	1.0
79.7 -12.5 -21.8	79.5 -11.6 -22.2	55.85 0.2864 0.3236	1.1	0.7
87.7 -5.8 -11.8	87.4 -5.5 -12.4	70.77 0.3162 0.3404	0.7	0.6
91.5 -3.0 -7.0	91.5 -1.6 -7.0	79.48 0.3318 0.3477	1.4	1.7
48.0 74.0 -3.0	47.9 73.7 -2.4	16.73 0.5107 0.2601	0.6	0.2
60.8 50.6 -6.7	60.6 50.2 -7.4	28.85 0.4277 0.2902	0.8	0.4
76.4 25.8 -6.9	76.2 26.2 -7.3	50.19 0.3754 0.3214	0.6	0.3
86.2 12.0 -5.2	86.0 12.7 -5.5	67.89 0.3555 0.3385	0.8	0.6
90.7 5.9 -3.9	90.4 6.9 -4.1	77.11 0.3491 0.3461	1.1	1.1
89.0 -5.0 93.0	88.5 -5.4 91.1	73.07 0.4582 0.4928	2.0	0.6
90.3 -4.7 62.6	89.9 -5.6 62.6	76.14 0.4296 0.4623	1.0	0.6
92.2 -3.5 31.1	91.7 -3.8 30.8	80.01 0.3888 0.4132	0.7	0.4
93.6 -1.6 13.3	93.3 -1.3 13.0	83.63 0.3646 0.3813	0.6	0.5
94.3 -0.9 5.4	93.9 -0.7 5.3	84.94 0.3532 0.3680	0.5	0.4
89.0 0.0 -1.8	88.7 1.2 -2.0	73.52 0.3440 0.3540	1.2	1.7
82.8 0.0 -1.7	82.6 -0.7 -2.1	61.45 0.3407 0.3552	0.9	1.1
69.3 0.0 -1.4	69.0 -0.0 -2.0	39.28 0.3414 0.3541	0.8	0.7
54.1 0.0 -1.0	53.8 1.8 -1.7	21.82 0.3454 0.3518	2.0	2.7
36.6 -0.0 -0.5	36.3 2.4 -0.7	9.18 0.3504 0.3521	2.4	3.3
16.0 0.0 0.0	16.0 2.3 0.3	2.10 0.3588 0.3543	2.3	3.2
10.4 13.9 1.4	11.2 15.9 1.1	1.29 0.4439 0.3143	2.2	1.6
33.4 25.4 20.9	33.6 22.0 20.8	7.80 0.4880 0.3771	3.3	2.0
34.4 -3.3 22.3	34.3 -1.1 22.3	8.16 0.4151 0.4373	2.2	2.1
24.0 22.0 -46.0	24.4 22.3 -45.3	4.23 0.2272 0.1641	0.9	0.6
40.9 17.9 -36.6	40.7 19.8 -36.2	11.68 0.2805 0.2304	1.9	1.4
63.7 10.3 -23.8	63.6 11.3 -24.3	32.34 0.3119 0.2935	1.1	0.6
79.4 5.1 -13.6	79.0 6.4 -14.4	54.93 0.3287 0.3254	1.6	1.4
87.2 2.6 -8.1	87.0 4.1 -8.5	70.00 0.3372 0.3402	1.5	1.9
47.0 68.0 48.0	46.8 67.7 49.1	15.90 0.6238 0.3314	1.1	0.6
58.5 47.1 37.9	58.1 46.5 37.9	26.08 0.5297 0.3654	0.7	0.4
74.2 22.9 21.4	73.9 22.8 21.6	46.55 0.4287 0.3744	0.4	0.3
85.0 10.0 9.8	84.9 10.5 10.0	65.78 0.3799 0.3669	0.5	0.4
90.0 4.7 3.7	89.9 5.0 4.1	75.98 0.3601 0.3614	0.5	0.4
50.0 -65.0 27.0	49.8 -65.2 26.7	18.24 0.2434 0.5528	0.4	0.3
62.1 -39.8 21.0	61.8 -41.1 20.4	30.21 0.3022 0.4641	1.5	0.7
77.0 -19.1 11.0	76.6 -18.5 10.6	50.84 0.3335 0.3988	0.8	0.5
86.3 -8.4 4.2	86.1 -9.7 3.8	68.15 0.3372 0.3740	1.4	1.3
90.8 -4.1 0.9	90.7 -3.2 0.8	77.80 0.3423 0.3626	0.9	1.1
88.5 -0.4 -3.1	88.2 0.4 -3.2	72.57 0.3408 0.3525	0.8	1.2

82.0 -0.9 -4.1	81.6 -1.0 -4.7	59.57 0.3355 0.3505	0.7	0.6
67.7 -2.0 -4.4	67.4 -2.3 -5.1	37.16 0.3306 0.3495	0.8	0.7
52.2 -2.5 -3.5	51.8 -2.1 -4.4	19.94 0.3292 0.3490	1.0	1.0
37.5 -3.9 -3.1	37.4 -2.0 -2.8	9.78 0.3304 0.3518	1.9	2.3
26.3 -6.8 -3.4	27.0 -8.9 -3.2	5.08 0.3005 0.3610	2.2	2.1
10.4 -8.2 -10.2	10.0 -5.1 -10.3	1.12 0.2483 0.2961	3.1	3.2
24.3 32.7 13.1	24.1 34.0 13.6	4.13 0.5366 0.3248	1.4	0.6
24.7 -17.0 7.5	25.9 -18.6 8.6	4.71 0.3080 0.4427	2.3	1.5
23.0 0.0 0.0	23.2 -2.2 -0.1	3.86 0.3367 0.3630	2.2	3.0
38.5 6.6 3.9	38.3 7.5 4.1	10.24 0.3812 0.3595	1.0	1.0
61.5 5.4 3.8	61.3 5.4 3.4	29.57 0.3646 0.3604	0.4	0.4
78.1 2.9 0.9	77.8 2.9 0.5	52.82 0.3516 0.3568	0.6	0.5
86.6 1.5 -0.7	86.5 1.9 -0.6	68.90 0.3476 0.3559	0.5	0.6
53.1 37.7 28.9	52.5 36.8 28.4	20.57 0.5018 0.3658	1.2	0.7
41.5 22.7 16.8	41.1 23.5 16.6	11.92 0.4624 0.3646	0.9	0.7
31.9 40.0 24.0	31.1 38.7 23.4	6.70 0.5564 0.3418	1.6	0.8
32.5 44.4 -1.8	32.2 43.9 -2.7	7.16 0.4731 0.2762	1.1	0.6
51.3 1.3 44.5	50.8 1.8 44.9	19.12 0.4527 0.4608	0.8	0.6
34.6 -36.4 13.9	33.7 -34.5 13.8	7.84 0.2768 0.4863	2.2	1.1
36.0 -26.2 -20.9	35.5 -21.9 -21.5	8.77 0.2149 0.3042	4.4	2.4
20.9 9.6 -23.6	21.1 10.8 -22.5	3.28 0.2789 0.2376	1.7	1.6
71.2 18.8 17.3	70.8 17.9 16.9	41.91 0.4132 0.3725	1.1	0.7
71.2 22.2 73.1	70.3 22.1 73.4	41.15 0.5088 0.4437	1.0	0.7
47.7 71.2 16.2	47.7 70.7 16.6	16.59 0.5601 0.2923	0.6	0.2
38.0 55.4 -20.9	38.1 54.7 -20.3	10.15 0.4216 0.2323	0.9	0.3
73.7 -22.8 67.6	73.1 -24.0 67.9	45.26 0.4099 0.5161	1.4	0.7
52.3 -52.3 -20.2	52.3 -49.6 -20.5	20.43 0.1920 0.3462	2.7	1.0
43.3 -17.0 -48.6	43.7 -14.3 -47.6	13.65 0.1850 0.2278	3.0	1.5
95.0 0.0 -2.0	94.5 0.6 -2.7	86.42 0.3422 0.3536	1.0	1.1
15.7 -3.1 11.7	15.9 0.2 10.8	2.08 0.4044 0.4173	3.4	4.3
34.7 28.5 -4.0	34.6 25.7 -4.0	8.32 0.4091 0.3038	2.8	1.3
25.8 -11.0 -14.4	27.1 -11.0 -12.6	5.13 0.2571 0.3204	2.2	1.5
Average			1.5	1.1
Gamut-Volume				100 %

Measurement Data

This table lists all RGB measurements. The XYZ values represent the values from the measurement device.

RGB	XYZ	Yxy
255 255 255	120.35 125.94 114.79	125.94 0.3333 0.3488
0 0 0	0.22 0.26 0.27	0.26 0.2938 0.3467
12 12 12	0.20 0.24 0.35	0.24 0.2557 0.3037
25 25 25	0.95 0.93 0.91	0.93 0.3409 0.3336
38 38 38	2.06 1.98 1.80	1.98 0.3534 0.3389
51 51 51	3.67 3.73 3.33	3.73 0.3421 0.3475
63 63 63	5.59 6.27 5.57	6.27 0.3209 0.3595
76 76 76	8.67 8.86 8.10	8.86 0.3383 0.3457
89 89 89	12.32 12.49 11.38	12.49 0.3404 0.3452
102 102 102	15.84 16.66 15.19	16.66 0.3321 0.3493
114 114 114	20.20 21.60 19.75	21.60 0.3282 0.3510
127 127 127	26.07 26.89 24.72	26.89 0.3356 0.3462
140 140 140	32.03 33.57 30.55	33.57 0.3331 0.3492
153 153 153	38.88 40.56 37.01	40.56 0.3339 0.3483
165 165 165	45.82 48.07 44.57	48.07 0.3309 0.3472
178 178 178	54.43 56.81 51.59	56.81 0.3343 0.3489
191 191 191	63.58 66.30 60.57	66.30 0.3338 0.3481
204 204 204	73.04 76.83 70.67	76.83 0.3312 0.3484
216 216 216	83.39 86.97 79.29	86.97 0.3340 0.3484
229 229 229	95.21 99.08 90.65	99.08 0.3341 0.3477
242 242 242	106.86 111.67 102.46	111.67 0.3329 0.3479
0 0 128	4.17 1.52 21.88	1.52 0.1512 0.0550
0 0 255	18.97 6.50 101.43	6.50 0.1495 0.0512
0 128 0	5.34 17.73 2.82	17.73 0.2063 0.6847
0 128 128	9.58 19.48 24.62	19.48 0.1785 0.3629
0 170 255	29.27 41.00 106.43	41.00 0.1656 0.2320
0 255 0	25.61 84.78 12.84	84.78 0.2078 0.6880
0 255 170	33.26 87.50 53.69	87.50 0.1907 0.5016
0 255 255	44.46 91.33 113.84	91.33 0.1781 0.3659
85 85 85	11.18 11.21 10.12	11.21 0.3439 0.3448
128 0 0	16.61 7.72 0.40	7.72 0.6718 0.3122
128 0 128	20.77 9.09 22.36	9.09 0.3977 0.1741
128 128 0	22.13 25.49 3.00	25.49 0.4372 0.5036
128 128 128	26.51 27.30 25.25	27.30 0.3353 0.3453
128 128 255	41.31 32.47 104.41	32.47 0.2318 0.1822
128 255 128	46.81 94.04 35.21	94.04 0.2659 0.5341
170 0 255	49.58 20.52 101.85	20.52 0.2883 0.1194
170 170 170	49.07 51.24 47.08	51.24 0.3329 0.3477
170 255 0	56.63 98.86 13.10	98.86 0.3359 0.5864
170 255 255	75.62 105.51 114.23	105.51 0.2560 0.3572
255 0 0	75.99 34.96 1.02	34.96 0.6787 0.3122
255 0 170	83.66 37.52 42.52	37.52 0.5111 0.2292
255 0 255	94.76 41.24 102.38	41.24 0.3975 0.1730
255 128 128	85.69 54.47 26.13	54.47 0.5153 0.3276
255 170 0	86.46 69.11 6.15	69.11 0.5346 0.4273
255 170 255	105.28 75.95 107.36	75.95 0.3648 0.2632
255 255 0	101.64 119.49 13.59	119.49 0.4330 0.5091
255 255 170	109.42 122.25 55.29	122.25 0.3813 0.4260
170 85 85	34.73 22.02 10.45	22.02 0.5168 0.3276
85 170 85	19.44 38.50 14.24	38.50 0.2694 0.5334
85 85 170	17.23 13.26 42.64	13.26 0.2356 0.1813

85 170 170	25.57 40.69 46.79	40.69 0.2262 0.3599
170 85 170	40.84 24.14 43.11	24.14 0.3778 0.2233
170 170 85	43.03 49.32 14.59	49.32 0.4023 0.4612
0 147 216	20.55 29.52 73.15	29.52 0.1668 0.2395
104 173 227	35.91 45.75 83.30	45.75 0.2177 0.2773
169 203 236	61.69 70.33 93.68	70.33 0.2733 0.3116
206 222 241	82.06 89.12 99.33	89.12 0.3033 0.3294
223 232 243	94.67 100.10 101.97	100.10 0.3190 0.3373
182 55 121	41.01 21.07 20.51	21.07 0.4965 0.2552
195 115 159	53.07 36.33 39.03	36.33 0.4132 0.2829
213 173 201	73.18 63.21 65.89	63.21 0.3618 0.3125
226 208 225	89.02 85.50 85.42	85.50 0.3425 0.3289
233 224 235	97.07 97.10 94.53	97.10 0.3362 0.3364
240 222 0	84.80 92.02 10.11	92.02 0.4536 0.4923
240 226 104	88.32 95.89 24.80	95.89 0.4225 0.4588
239 232 171	93.96 100.76 53.33	100.76 0.3788 0.4062
240 236 210	99.81 105.32 77.52	105.32 0.3531 0.3726
239 238 227	101.76 106.97 89.52	106.97 0.3412 0.3587
222 222 226	89.17 92.58 87.28	92.58 0.3315 0.3441
204 205 208	73.57 77.39 73.19	77.39 0.3282 0.3453
167 167 170	47.27 49.47 47.01	49.47 0.3289 0.3441
128 128 130	26.73 27.48 26.13	27.48 0.3328 0.3420
86 86 87	11.40 11.56 10.79	11.56 0.3378 0.3425
44 44 44	2.65 2.64 2.36	2.64 0.3463 0.3450
44 28 32	2.28 1.63 1.39	1.63 0.4307 0.3077
106 66 51	12.60 9.83 3.89	9.83 0.4789 0.3734
84 82 49	9.67 10.28 3.84	10.28 0.4066 0.4322
54 53 126	7.31 5.32 21.83	5.32 0.2121 0.1545
96 90 154	17.75 14.71 34.50	14.71 0.2651 0.2197
153 149 195	42.89 40.72 60.49	40.72 0.2976 0.2826
195 193 221	69.25 69.18 81.23	69.18 0.3153 0.3149
217 216 233	86.60 88.16 92.39	88.16 0.3242 0.3300
181 58 43	37.36 20.03 2.99	20.03 0.6188 0.3317
195 109 80	47.20 32.85 10.42	32.85 0.5217 0.3631
213 167 143	66.52 58.62 34.06	58.62 0.4178 0.3682
227 205 193	85.02 82.85 63.19	82.85 0.3680 0.3585
233 223 218	94.50 95.69 81.49	95.69 0.3478 0.3522
52 137 70	10.02 22.97 9.36	22.97 0.2366 0.5424
112 163 110	24.56 38.05 21.17	38.05 0.2931 0.4541
171 196 167	53.06 64.02 47.50	64.02 0.3224 0.3890
206 219 206	76.71 85.83 73.24	85.83 0.3253 0.3640
223 230 226	91.67 97.98 88.09	97.98 0.3301 0.3528
219 221 227	87.57 91.39 87.84	91.39 0.3282 0.3425
199 203 210	71.17 75.02 74.24	75.02 0.3229 0.3403
159 164 171	43.89 46.80 47.34	46.80 0.3180 0.3391
119 124 129	23.47 25.11 25.58	25.11 0.3165 0.3386
83 90 93	11.46 12.31 12.29	12.31 0.3178 0.3414
57 66 68	5.28 6.40 6.63	6.40 0.2883 0.3496
22 36 45	1.18 1.41 2.41	1.41 0.2354 0.2831
88 42 44	8.51 5.20 2.45	5.20 0.5267 0.3216
48 66 50	4.09 5.93 3.69	5.93 0.2982 0.4326
57 57 57	4.47 4.86 4.45	4.86 0.3244 0.3529
98 88 85	13.56 12.90 10.28	12.90 0.3690 0.3511
154 144 141	37.34 37.23 31.40	37.23 0.3523 0.3514
195 190 190	64.96 66.52 60.08	66.52 0.3391 0.3473
217 215 217	84.00 86.77 79.89	86.77 0.3351 0.3462

169 103 81	35.23 25.91 10.36	25.91 0.4927 0.3624
123 86 73	18.87 15.02 7.87	15.02 0.4520 0.3596
114 52 45	13.60 8.43 2.77	8.43 0.5483 0.3399
115 51 82	15.31 9.02 9.05	9.02 0.4588 0.2702
133 119 47	23.45 24.08 4.99	24.08 0.4464 0.4585
50 92 60	5.57 9.88 5.32	9.88 0.2683 0.4757
41 94 116	7.73 11.05 19.29	11.05 0.2032 0.2901
51 51 85	4.81 4.13 9.29	4.13 0.2637 0.2267
199 162 143	58.03 52.78 33.55	52.78 0.4019 0.3656
212 158 33	58.90 51.83 6.14	51.83 0.5040 0.4435
183 57 91	39.68 20.90 11.66	20.90 0.5493 0.2893
133 55 123	22.98 12.78 21.04	12.78 0.4047 0.2250
172 187 45	44.86 56.99 9.03	56.99 0.4046 0.5140
27 142 156	14.14 25.73 37.91	25.73 0.1818 0.3308
31 111 181	13.84 17.20 48.99	17.20 0.1730 0.2149
239 240 244	104.38 108.83 103.42	108.83 0.3297 0.3437
43 44 29	2.51 2.62 1.24	2.62 0.3948 0.4111
106 68 89	13.99 10.48 10.94	10.48 0.3950 0.2959
46 67 83	5.14 6.46 9.42	6.46 0.2445 0.3075