

Table 1: Mean opinion scores (MOS) for achromatic and chromatic images, with corresponding values of computed metrics: pixel-based DR, image key (IK), Area, Contrast (C) and Colorfulness (Col).

Image name	MOS Achromatic	MOS Chromatic	DR	IK	Area	Contrast	Colorfulness
507	39.435	33.174	2.968	0.54811	3	0.19369	15.683
AirBellowsGap	75.565	75.609	3.147	0.46334	26280	0.07148	12.494
BandonSunset(1)	30.913	36.739	1.939	0.57184	1472	0.04362	12.130
BigfootPass	11.043	11.609	0.978	0.58337	0	0.11269	11.165
Bistro	83.304	83.696	3.391	0.34647	49074	0.10897	7.702
BloomingGorse(1)	9.391	13.304	1.601	0.72228	0	0.20856	29.929
Carousel	84.957	88.087	3.628	0.36609	51648	0.19513	19.089
DelicateFlowers	12.261	7.957	1.677	0.64741	0	0.21178	20.181
DevilsTower	73.261	80.652	2.879	0.44256	104886	0.28107	7.525
ElCapitan_bottom	6.652	4.870	1.641	0.54312	0	0.34800	18.165
Flamingo	56.913	61.783	3.135	0.50133	2058	0.17475	18.442
GoldenGate(1)	18.826	25.043	1.928	0.65312	0	0.06703	22.180
HancockKitchenInside	63.043	54.348	3.837	0.26377	54860	0.11718	15.512
HancockKitchenOutside	30.783	23.913	2.852	0.74413	15	0.12059	12.410
HDRMark	89.957	90.739	4.033	0.28562	69244	0.10613	19.197
JesseBrownsCabin	52.043	54.043	3.035	0.47313	12387	0.23109	12.528
LabBooth	56.565	61.826	3.133	0.55777	1784	0.13712	19.641
LabTypewriter	97.957	97.348	4.057	0.30314	63615	0.07905	7.045
LasVegasStore	66.261	60.435	2.991	0.48458	3322	0.13448	16.273
Market3	78.087	65.304	3.689	0.62441	52868	0.34287	33.660
NorthBubble	20.783	22.174	2.132	0.58954	0	0.21721	19.555
OCanadaNoLights_bottom	7.783	8.565	2.541	0.40018	0	0.25755	29.242
OCanadaNoLights_middle	69.304	68.130	2.573	0.44998	147442	0.12281	9.716
OtterPoint	68.652	64.565	2.839	0.59964	38314	0.09486	13.206
PaulBunyan	29.478	31.696	2.022	0.65908	1	0.21776	25.873
PeckLake	32.696	26.174	2.553	0.54695	0	0.22370	18.724
SequoiaRemains_top	50.609	44.174	2.358	0.57004	7	0.32883	21.129
TupperLake(1)	12.130	8.565	0.912	0.63005	0	0.05241	31.518
URChapel(1)_top	77.130	73.217	3.704	0.21170	33753	0.09515	25.483
URChapel(2)_bottom	13.435	14.478	1.645	0.44149	0	0.13342	37.498
URChapel(2)_middle	31.870	38.130	2.409	0.41082	11248	0.14965	23.643
WaffleHouse	64.565	62.174	3.804	0.56238	3156	0.13675	20.397
WillyDesk	54.870	57.043	3.645	0.51683	213	0.13312	11.233
WillySentinel_bottom	32.304	30.696	2.573	0.61591	0	0.16971	26.116
WillySentinel_middle	50.348	46.826	2.653	0.46558	21174	0.12465	19.499
Zentrum	63.130	62.783	3.239	0.46787	714	0.11694	8.851

Table 2: Feature scaled values of mean opinion scores (MOS) for achromatic and chromatic images, and computed metrics: pixel-based DR, image key (IK), Area, Contrast (C) and Colorfulness (Col).

Image name	MOS Achromatic	MOS Chromatic	DR	IK	Area	Contrast	Colorfulness
507	-0.0903	-0.1489	0.0770	0.0766	-0.1412	0.1016	-0.0986
AirBellowsGap	0.3055	0.3100	0.1339	-0.0826	0.0370	-0.2999	-0.2033
BandonSunset(1)	-0.1836	-0.1103	-0.2503	0.1212	-0.1312	-0.3915	-0.2152
BigfootPass	-0.4012	-0.3821	-0.5559	0.1428	-0.1412	-0.1645	-0.2469
Bistro	0.3902	0.3974	0.2112	-0.3021	0.1916	-0.1767	-0.3606
BloomingGorse(1)	-0.4193	-0.3637	-0.3577	0.4037	-0.1412	0.1504	0.3692
Carousel	0.4083	0.4449	0.2868	-0.2653	0.2091	0.1063	0.0133
DelicateFlowers	-0.3879	-0.4216	-0.3337	0.2631	-0.1412	0.1610	0.0491
DevilsTower	0.2802	0.3645	0.0487	-0.1216	0.5702	0.3887	-0.3664
ElCapitan_bottom	-0.4493	-0.4549	-0.3450	0.0672	-0.1412	0.6085	-0.0170
Flamingo	0.1012	0.1605	0.1298	-0.0113	-0.1273	0.0394	-0.0079
GoldenGate(1)	-0.3160	-0.2368	-0.2537	0.2738	-0.1412	-0.3145	0.1148
HancockKitchenInside	0.1683	0.0801	0.3533	-0.4574	0.2309	-0.1498	-0.1042
HancockKitchenOutside	-0.1850	-0.2490	0.0401	0.4448	-0.1411	-0.1386	-0.2060
HDRMark	0.4631	0.4736	0.4156	-0.4164	0.3284	-0.1861	0.0169
JesseBrownsCabin	0.0478	0.0768	0.0982	-0.0642	-0.0572	0.2244	-0.2022
LabBooth	0.0974	0.1610	0.1292	0.0947	-0.1291	-0.0843	0.0314
LabTypewriter	0.5507	0.5451	0.4233	-0.3835	0.2902	-0.2751	-0.3822
LasVegasStore	0.2036	0.1459	0.0841	-0.0427	-0.1187	-0.0929	-0.0792
Market3	0.3331	0.1986	0.3060	0.2199	0.2174	0.5917	0.4918
NorthBubble	-0.2945	-0.2678	-0.1888	0.1544	-0.1412	0.1788	0.0286
OCanadaNoLights_bottom	-0.4369	-0.4150	-0.0590	-0.2012	-0.1412	0.3114	0.3467
OCanadaNoLights_middle	0.2369	0.2291	-0.0486	-0.1077	0.8588	-0.1313	-0.2945
OtterPoint	0.2297	0.1906	0.0360	0.1734	0.1186	-0.2231	-0.1799
PaulBunyan	-0.1993	-0.1649	-0.2240	0.2850	-0.1412	0.1806	0.2361
PeckLake	-0.1641	-0.2246	-0.0549	0.0744	-0.1412	0.2002	0.0013
SequoiaRemains_top	0.0321	-0.0299	-0.1170	0.1178	-0.1412	0.5456	0.0803
TupperLake(1)	-0.3893	-0.4150	-0.5767	0.2305	-0.1412	-0.3626	0.4214
URChapel(1)_top	0.3226	0.2841	0.3110	-0.5552	0.0877	-0.2222	0.2232
URChapel(2)_bottom	-0.3750	-0.3510	-0.3438	-0.1234	-0.1412	-0.0964	0.6178
URChapel(2)_middle	-0.1731	-0.0953	-0.1009	-0.1812	-0.0649	-0.0431	0.1628
WaffleHouse	0.1850	0.1647	0.3426	0.1034	-0.1198	-0.0855	0.0562
WillyDesk	0.0788	0.1092	0.2920	0.0179	-0.1398	-0.0974	-0.2447
WillySentinel_bottom	-0.1683	-0.1757	-0.0487	0.2039	-0.1412	0.0228	0.2440
WillySentinel_middle	0.0293	-0.0012	-0.0233	-0.0784	0.0024	-0.1253	0.0267
Zentrum	0.1693	0.1713	0.1632	-0.0741	-0.1364	-0.1506	-0.3229