

32px input to 64px output



Input

#Colors
75



Bilinear+Kuwahara

Dist.	#Colors
0.0501229	270



[Hyllian, 2011]

Dist.	#Colors
0.0405684	75



[McGuire et al., 2021]

Dist.	#Colors
0.047463	75



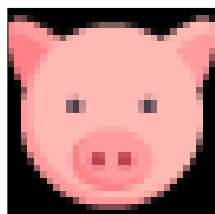
Our Output

Dist.	#Colors
0.0107435	6



GT

#Colors
6



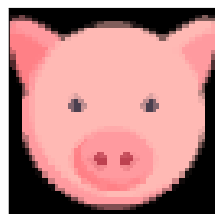
Input

#Colors
90



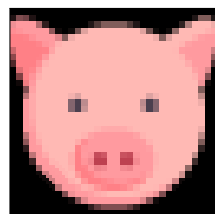
Bilinear+Kuwahara

Dist.	#Colors
0.059945	505



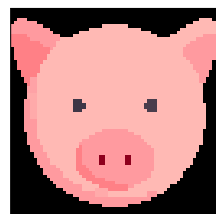
[Hyllian, 2011]

Dist.	#Colors
0.0484729	90



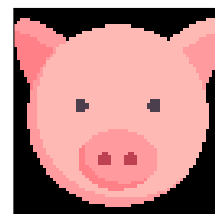
[McGuire et al., 2021]

Dist.	#Colors
0.0547866	90



Our Output

Dist.	#Colors
0.00902828	9



GT

#Colors
6



Input

#Colors
117



Bilinear+Kuwahara

Dist.	#Colors
0.0727702	585



[Hyllian, 2011]

Dist.	#Colors
0.0625048	117



[McGuire et al., 2021]

Dist.	#Colors
0.0666417	117



Our Output

Dist.	#Colors
0.0286763	15



GT

#Colors
9



Input

#Colors
182



Bilinear+Kuwahara

Dist.	#Colors
0.0648203	857



[Hyllian, 2011]

Dist.	#Colors
0.051423	182



[McGuire et al., 2021]

Dist.	#Colors
0.0571049	182



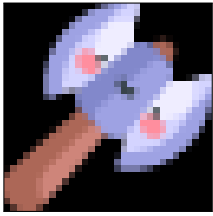
Our Output

Dist.	#Colors
0.0150423	13



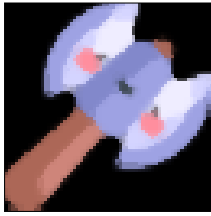
GT

#Colors
12



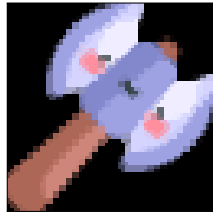
Input

#Colors
136



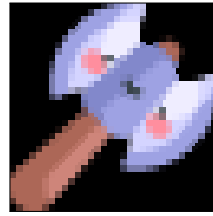
Bilinear+Kuwahara

Dist.	#Colors
0.0697615	681



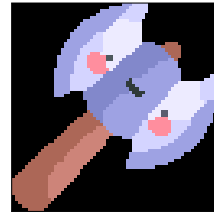
[Hyllian, 2011]

Dist.	#Colors
0.0565505	136



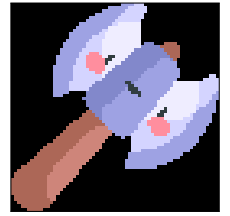
[McGuire et al., 2021]

Dist.	#Colors
0.0627602	136



Our Output

Dist.	#Colors
0.016458	11



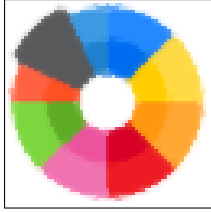
GT

#Colors
9



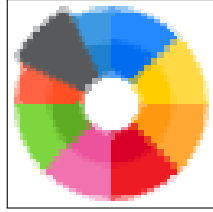
Input

#Colors
178



Bilinear+Kuwahara

Dist.	#Colors
0.055949	899



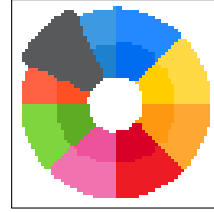
[Hyllian, 2011]

Dist.	#Colors
0.0464465	178



[McGuire et al., 2021]

Dist.	#Colors
0.0519332	178



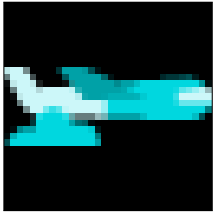
Our Output

Dist.	#Colors
0.0266847	18



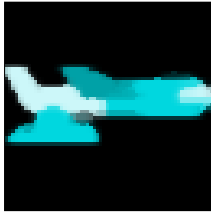
GT

#Colors
18



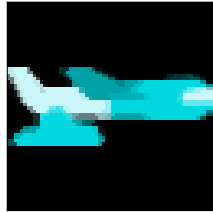
Input

#Colors
53



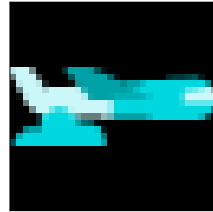
Bilinear+Kuwahara

Dist.	#Colors
0.0451055	333



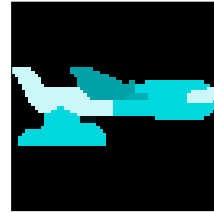
[Hyllian, 2011]

Dist.	#Colors
0.0314484	53



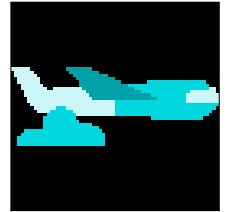
[McGuire et al., 2021]

Dist.	#Colors
0.0343664	53



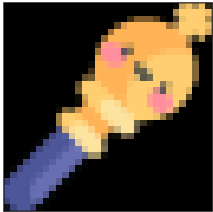
Our Output

Dist.	#Colors
0.00741698	6



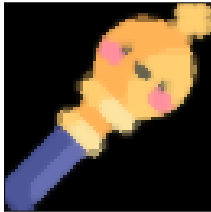
GT

#Colors
4



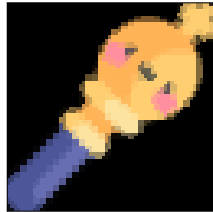
Input

#Colors
104



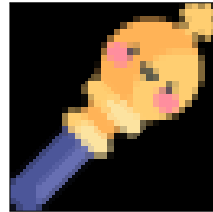
Bilinear+Kuwahara

Dist.	#Colors
0.0569822	567



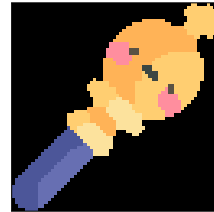
[Hyllian, 2011]

Dist.	#Colors
0.0496354	104



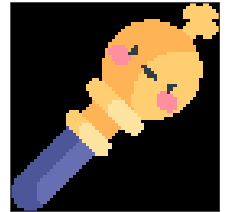
[McGuire et al., 2021]

Dist.	#Colors
0.0518719	104



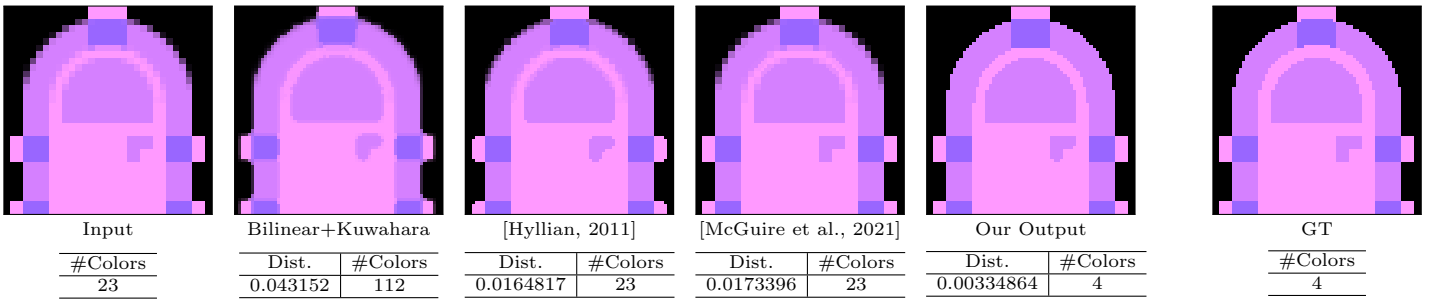
Our Output

Dist.	#Colors
0.0129723	9



GT

#Colors
8



Input

#Colors
23

Bilinear+Kuwahara

Dist.	#Colors
0.043152	112

[Hyllian, 2011]

Dist.	#Colors
0.0164817	23

[McGuire et al., 2021]

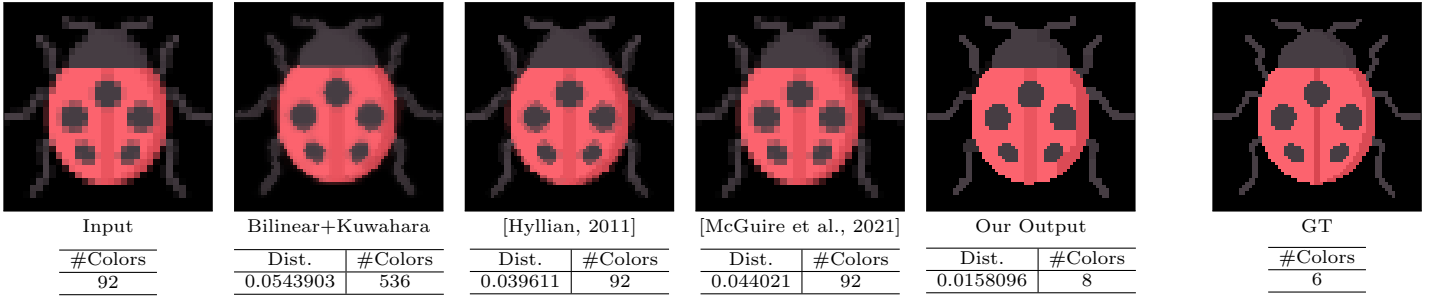
Dist.	#Colors
0.0173396	23

Our Output

Dist.	#Colors
0.00334864	4

GT

#Colors
4



Input

#Colors
92

Bilinear+Kuwahara

Dist.	#Colors
0.0543903	536

[Hyllian, 2011]

Dist.	#Colors
0.039611	92

[McGuire et al., 2021]

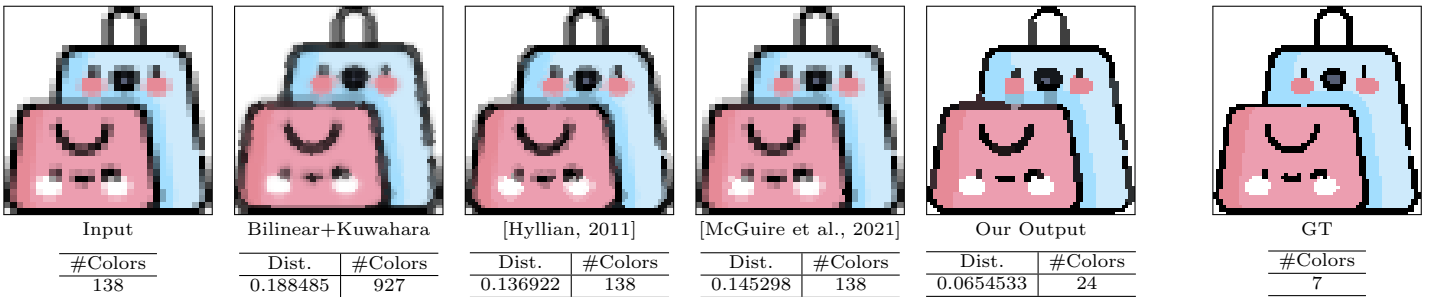
Dist.	#Colors
0.044021	92

Our Output

Dist.	#Colors
0.0158096	8

GT

#Colors
6



Input

#Colors
138

Bilinear+Kuwahara

Dist.	#Colors
0.188485	927

[Hyllian, 2011]

Dist.	#Colors
0.136922	138

[McGuire et al., 2021]

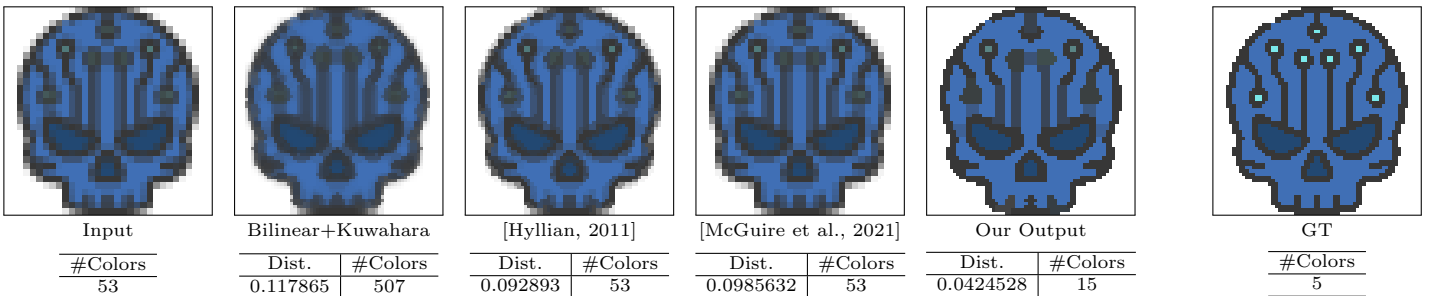
Dist.	#Colors
0.145298	138

Our Output

Dist.	#Colors
0.0654533	24

GT

#Colors
7



Input

#Colors
53

Bilinear+Kuwahara

Dist.	#Colors
0.117865	507

[Hyllian, 2011]

Dist.	#Colors
0.092893	53

[McGuire et al., 2021]

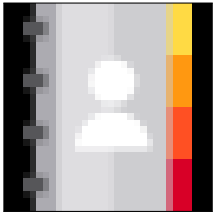
Dist.	#Colors
0.0985632	53

Our Output

Dist.	#Colors
0.0424528	15

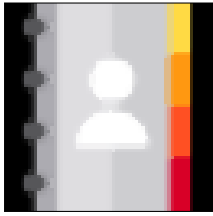
GT

#Colors
5



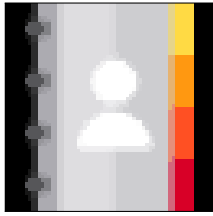
Input

#Colors
44



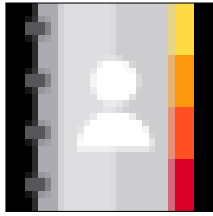
Bilinear+Kuwahara

Dist.	#Colors
0.0449767	152



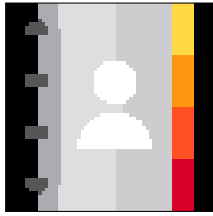
[Hyllian, 2011]

Dist.	#Colors
0.0320863	44



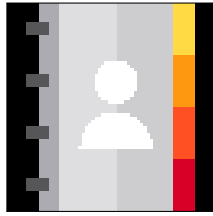
[McGuire et al., 2021]

Dist.	#Colors
0.0313693	44



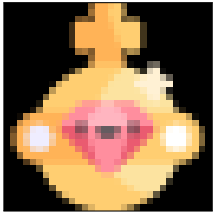
Our Output

Dist.	#Colors
0.00551989	10



GT

#Colors
10



Input

#Colors
143



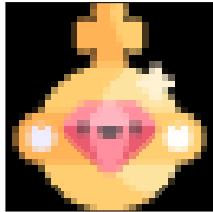
Bilinear+Kuwahara

Dist.	#Colors
0.0673503	775



[Hyllian, 2011]

Dist.	#Colors
0.0647612	143



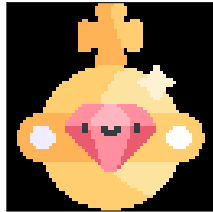
[McGuire et al., 2021]

Dist.	#Colors
0.0679374	143



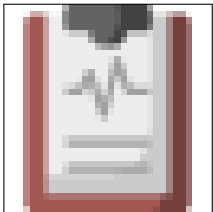
Our Output

Dist.	#Colors
0.019276	14



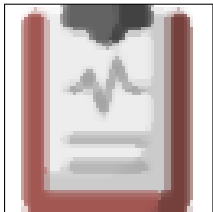
GT

#Colors
11



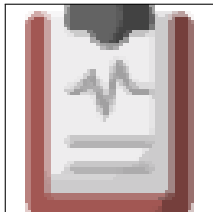
Input

#Colors
82



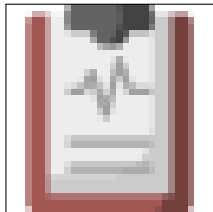
Bilinear+Kuwahara

Dist.	#Colors
0.0984654	277



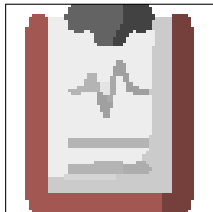
[Hyllian, 2011]

Dist.	#Colors
0.090096	82



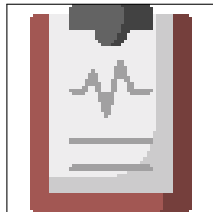
[McGuire et al., 2021]

Dist.	#Colors
0.0932468	82



Our Output

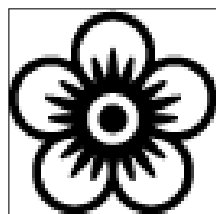
Dist.	#Colors
0.0489323	13



GT

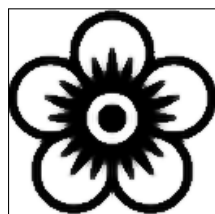
#Colors
8

64px input to 128px output



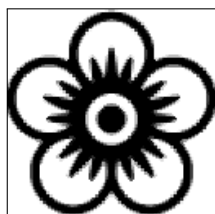
Input

#Colors
17



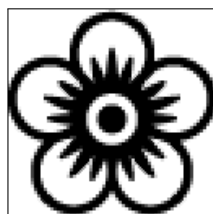
Bilinear+Kuwahara

Dist.	#Colors
0.115842	157



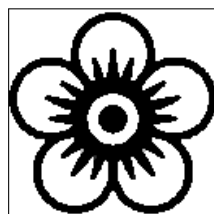
[Hyllian, 2011]

Dist.	#Colors
0.102614	17



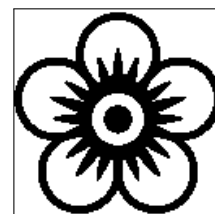
[McGuire et al., 2021]

Dist.	#Colors
0.114558	17



Our Output

Dist.	#Colors
0.0227832	6



GT

#Colors
2



Input

#Colors
212



Bilinear+Kuwahara

Dist.	#Colors
0.0441419	1143



[Hyllian, 2011]

Dist.	#Colors
0.0377886	212



[McGuire et al., 2021]

Dist.	#Colors
0.0417928	212



Our Output

Dist.	#Colors
0.0178818	27



GT

#Colors
8



Input

#Colors
191



Bilinear+Kuwahara

Dist.	#Colors
0.0337519	878



[Hyllian, 2011]

Dist.	#Colors
0.02711	191



[McGuire et al., 2021]

Dist.	#Colors
0.0302766	191



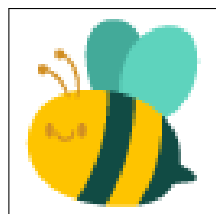
Our Output

Dist.	#Colors
0.00526618	11



GT

#Colors
10



Input

#Colors
144



Bilinear+Kuwahara

Dist.	#Colors
0.0279165	830



[Hyllian, 2011]

Dist.	#Colors
0.026369	144



[McGuire et al., 2021]

Dist.	#Colors
0.0297392	144



Our Output

Dist.	#Colors
0.0124959	11



GT

#Colors
6



Input

#Colors
68



Bilinear+Kuwahara

Dist.	#Colors
0.0212466	406



[Hyllian, 2011]

Dist.	#Colors
0.0166144	68



[McGuire et al., 2021]

Dist.	#Colors
0.0180944	68



Our Output

Dist.	#Colors
0.00146399	6



GT

#Colors
6



Input

#Colors
127



Bilinear+Kuwahara

Dist.	#Colors
0.086461	626



[Hyllian, 2011]

Dist.	#Colors
0.0674825	127



[McGuire et al., 2021]

Dist.	#Colors
0.0774745	127



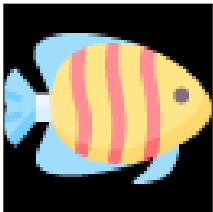
Our Output

Dist.	#Colors
0.0174608	9



GT

#Colors
9



Input

#Colors
185



Bilinear+Kuwahara

Dist.	#Colors
0.0331648	1047



[Hyllian, 2011]

Dist.	#Colors
0.0311066	185



[McGuire et al., 2021]

Dist.	#Colors
0.0349052	185



Our Output

Dist.	#Colors
0.00668208	10



GT

#Colors
10



Input

#Colors
148



Bilinear+Kuwahara

Dist.	#Colors
0.0396096	751



[Hyllian, 2011]

Dist.	#Colors
0.0378863	148



[McGuire et al., 2021]

Dist.	#Colors
0.0432543	148



Our Output

Dist.	#Colors
0.0068743	9



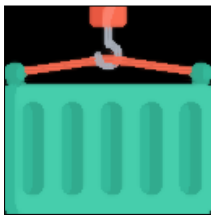
GT

#Colors
8



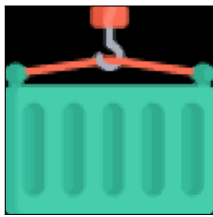
Input

#Colors
134



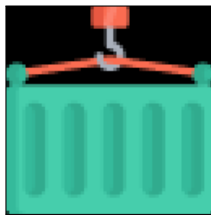
Bilinear+Kuwahara

Dist.	#Colors
0.0298155	536



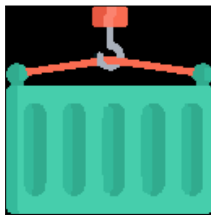
[Hyllian, 2011]

Dist.	#Colors
0.0284983	134



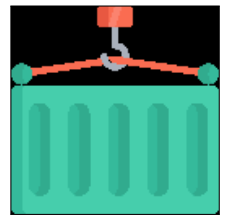
[McGuire et al., 2021]

Dist.	#Colors
0.0298397	134



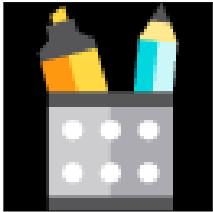
Our Output

Dist.	#Colors
0.00608344	9



GT

#Colors
8



Input

#Colors
152



Bilinear+Kuwahara

Dist.	#Colors
0.0302837	766



[Hyllian, 2011]

Dist.	#Colors
0.0247626	152



[McGuire et al., 2021]

Dist.	#Colors
0.0266853	152



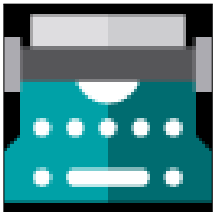
Our Output

Dist.	#Colors
0.00406502	10



GT

#Colors
10



Input

#Colors
62



Bilinear+Kuwahara

Dist.	#Colors
0.0397998	438



[Hyllian, 2011]

Dist.	#Colors
0.0481905	62



[McGuire et al., 2021]

Dist.	#Colors
0.0499838	62



Our Output

Dist.	#Colors
0.0101208	8



GT

#Colors
8



Input

#Colors
165



Bilinear+Kuwahara

Dist.	#Colors
0.0576941	756



[Hyllian, 2011]

Dist.	#Colors
0.0506176	165



[McGuire et al., 2021]

Dist.	#Colors
0.0560531	165



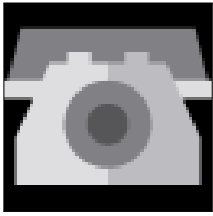
Our Output

Dist.	#Colors
0.0287582	23



GT

#Colors
9



Input

#Colors
80



Bilinear+Kuwahara

Dist.	#Colors
0.0334759	226



[Hyllian, 2011]

Dist.	#Colors
0.0229538	80



[McGuire et al., 2021]

Dist.	#Colors
0.0250246	80



Our Output

Dist.	#Colors
0.00810227	5



GT

#Colors
5



Input

#Colors
131



Bilinear+Kuwahara

Dist.	#Colors
0.024793	704



[Hyllian, 2011]

Dist.	#Colors
0.0245379	131



[McGuire et al., 2021]

Dist.	#Colors
0.028214	131



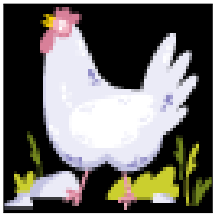
Our Output

Dist.	#Colors
0.00454289	8



GT

#Colors
8



Input

#Colors
269



Bilinear+Kuwahara

Dist.	#Colors
0.0623898	1511



[Hyllian, 2011]

Dist.	#Colors
0.0529779	269



[McGuire et al., 2021]

Dist.	#Colors
0.0596063	269



Our Output

Dist.	#Colors
0.0246812	36



GT

#Colors
10

128px input to 256px output



Input
#Colors
199



Bilinear+Kuwahara
Dist. #Colors
0.017771 1066



[Hyllian, 2011]
Dist. #Colors
0.0166371 199



[McGuire et al., 2021]
Dist. #Colors
0.0185599 199



Our Output
Dist. #Colors
0.00513714 16



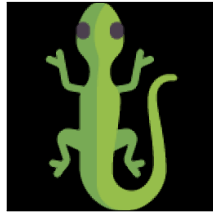
GT
#Colors
7



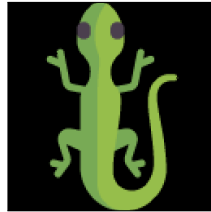
Input
#Colors
83



Bilinear+Kuwahara
Dist. #Colors
0.0131922 576



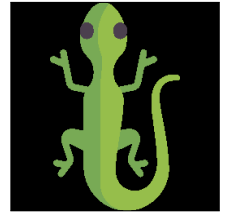
[Hyllian, 2011]
Dist. #Colors
0.0140544 83



[McGuire et al., 2021]
Dist. #Colors
0.0155253 83



Our Output
Dist. #Colors
0.00416891 15



GT
#Colors
4



Input
#Colors
71



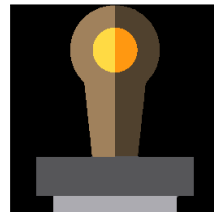
Bilinear+Kuwahara
Dist. #Colors
0.00841275 383



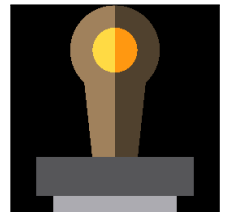
[Hyllian, 2011]
Dist. #Colors
0.00828116 71



[McGuire et al., 2021]
Dist. #Colors
0.00862808 71



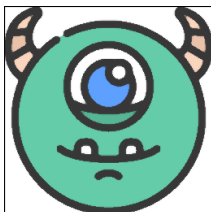
Our Output
Dist. #Colors
0.000567861 8



GT
#Colors
7



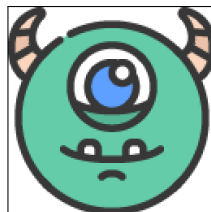
Input
#Colors
97



Bilinear+Kuwahara
Dist. #Colors
0.0338978 588



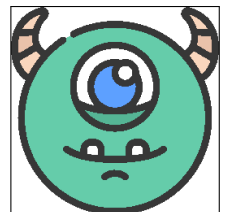
[Hyllian, 2011]
Dist. #Colors
0.0335324 97



[McGuire et al., 2021]
Dist. #Colors
0.0383173 97



Our Output
Dist. #Colors
0.00949755 13



GT
#Colors
7



Input

#Colors
360



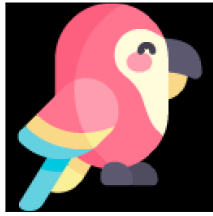
Bilinear+Kuwahara

Dist.	#Colors
0.0138535	1642



[Hyllian, 2011]

Dist.	#Colors
0.0144724	360



[McGuire et al., 2021]

Dist.	#Colors
0.0161753	360



Our Output

Dist.	#Colors
0.00481934	23



GT

#Colors
12



Input

#Colors
126



Bilinear+Kuwahara

Dist.	#Colors
0.013244	779



[Hyllian, 2011]

Dist.	#Colors
0.0130601	126



[McGuire et al., 2021]

Dist.	#Colors
0.0138584	126



Our Output

Dist.	#Colors
0.00356781	10



GT

#Colors
6



Input

#Colors
381



Bilinear+Kuwahara

Dist.	#Colors
0.0463649	3151



[Hyllian, 2011]

Dist.	#Colors
0.039408	381



[McGuire et al., 2021]

Dist.	#Colors
0.0421653	381



Our Output

Dist.	#Colors
0.0326638	116



GT

#Colors
10



Input

#Colors
79



Bilinear+Kuwahara

Dist.	#Colors
0.0237363	405



[Hyllian, 2011]

Dist.	#Colors
0.0111968	79



[McGuire et al., 2021]

Dist.	#Colors
0.0121327	79



Our Output

Dist.	#Colors
0.00317411	18



GT

#Colors
8



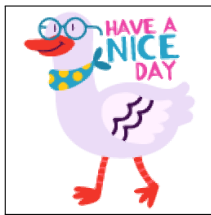
Input

#Colors
287



Bilinear+Kuwahara

Dist.	#Colors
0.0278651	2233



[Hyllian, 2011]

Dist.	#Colors
0.0236841	287



[McGuire et al., 2021]

Dist.	#Colors
0.0261514	287



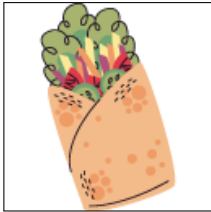
Our Output

Dist.	#Colors
0.0149882	58



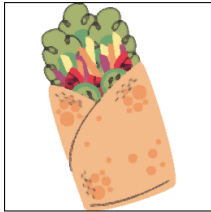
GT

#Colors
10



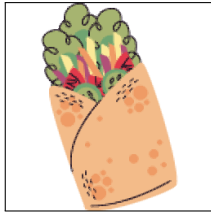
Input

#Colors
431



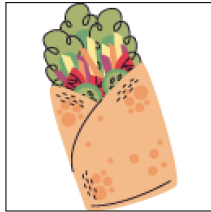
Bilinear+Kuwahara

Dist.	#Colors
0.0325218	3134



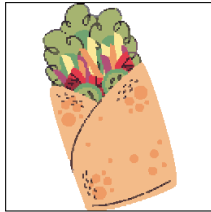
[Hyllian, 2011]

Dist.	#Colors
0.0276986	431



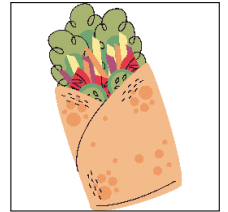
[McGuire et al., 2021]

Dist.	#Colors
0.0297558	431



Our Output

Dist.	#Colors
0.0237064	118



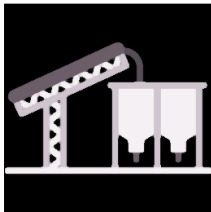
GT

#Colors
10



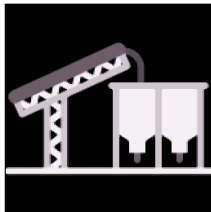
Input

#Colors
120



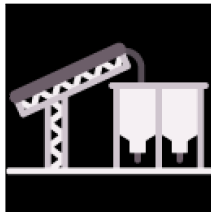
Bilinear+Kuwahara

Dist.	#Colors
0.0301871	697



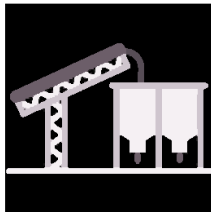
[Hyllian, 2011]

Dist.	#Colors
0.0276305	120



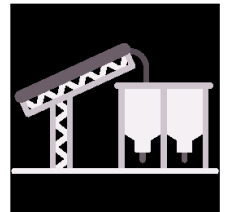
[McGuire et al., 2021]

Dist.	#Colors
0.0290965	120



Our Output

Dist.	#Colors
0.00692657	16



GT

#Colors
5



Input

#Colors
452



Bilinear+Kuwahara

Dist.	#Colors
0.0459585	4091



[Hyllian, 2011]

Dist.	#Colors
0.0387581	452



[McGuire et al., 2021]

Dist.	#Colors
0.0438868	452



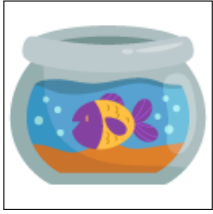
Our Output

Dist.	#Colors
0.025387	144



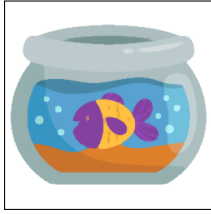
GT

#Colors
12



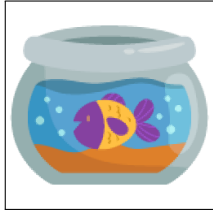
Input

#Colors
493



Bilinear+Kuwahara

Dist.	#Colors
0.0137331	2035



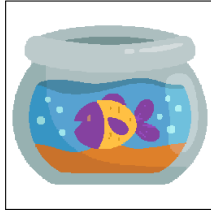
[Hyllian, 2011]

Dist.	#Colors
0.0128235	493



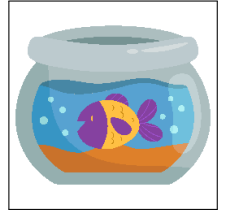
[McGuire et al., 2021]

Dist.	#Colors
0.0145187	493



Our Output

Dist.	#Colors
0.00844764	32



GT

#Colors
23



Input

#Colors
95



Bilinear+Kuwahara

Dist.	#Colors
0.0142782	536



[Hyllian, 2011]

Dist.	#Colors
0.00523356	95



[McGuire et al., 2021]

Dist.	#Colors
0.00591716	95



Our Output

Dist.	#Colors
0.00599973	16



GT

#Colors
11



Input

#Colors
70



Bilinear+Kuwahara

Dist.	#Colors
0.00951883	394



[Hyllian, 2011]

Dist.	#Colors
0.0103012	70



[McGuire et al., 2021]

Dist.	#Colors
0.0106138	70



Our Output

Dist.	#Colors
0.0028335	12



GT

#Colors
6