Benchmark	Docker	Native	Windows	Ubuntu	macOS
Brightness	W (28.84 ms) > M (28.17)	W (56.23 ms) > M (35.51)	N > D****	N > D**	N > D****
Randomization	ms) & U (26.83 ms)*	ms) > U (27.91 ms)****			
Compute	W (16.57 ms) > U (12.85	W (18.60 ms) > U (12.70)	$N > D^*$	no sig. diff.	D > N****
Canny	ms) > M (11.83 ms)***	$ ms \rangle > M (10.75 ms)^{****}$			
Compute	W (0.89 ms) > U (0.51)	U (0.71 ms) > W (0.54)	D > N****	N > D****	no sig. diff.
Histogram	ms) > M (0.27 ms)****	ms) > M (0.27 ms)****			
Contour	W (2.20 ms) > M (1.91)	W (3.37 ms) > U (2.03)	N > D****	no sig. diff.	D > N****
	ms) & U (1.97 ms)****	$ ms) > M (1.60 ms)^{***}$			
Contrast	M(0.91 ms) > U(0.81 ms)	W (2.46 ms) > M (0.86)	N > D****	$N > D^*$	D > N***
Randomization	> W (0.79 ms)**	$ ms \rangle > U (0.82 ms)^{**}$			
Gaussian	W (0.87 ms) > U (0.72)	W (0.83 ms) > U (0.72)	no sig. diff.	no sig. diff.	no sig. diff.
Blur	ms) > M (0.42 ms)****	$ ms \rangle > M (0.38 ms)^{****}$			
Good	no sig. diffs.	W (42.40 ms) > U (27.11)	N > D****	$N > D^*$	D > N****
Features		$ ms) > M (22.95 ms)^{****}$			
Gradient	M (2.07 ms) > W (1.84)	W (4.08 ms) > U (1.73)	N > D****	N > D****	D > N****
Sobel	ms) > U (1.54 ms)****	$ ms \rangle > M (1.50 ms)^{****}$			
Hough	W (86.47 ms) > U (75.79)	W (29.37 ms) > U (27.56)	D > N****	D > N****	D > N****
Lines	ms) > M (44.73 ms)****	$ ms \rangle > M (20.82 ms)^{***}$			
Load	W (30.46 ms) > M (25.58)	W (21.95 ms) > U (21.95	D > N****	N > D****	D > N****
Image	ms) > U (19.57 ms)****	$ ms \rangle > M (17.00 ms)^*$			
Mean	W (2.35 ms) > M (1.97)	W (2.50 ms) > U (1.71)	no sig. diff.	D > N****	N > D****
Thresholding	ms) & U (1.99 ms)****	$ ms) > M (1.56 ms)^{****}$			
Mirror	W (0.39 ms) & U (0.32	W (1.16 ms) > U (1.07)	N > D****	N > D****	D > N****
	ms) > M (0.29 ms)****	$ ms \rangle > M (0.26 ms)^{****}$			
Resize	W (1.15 ms) > U (1.02	W (1.17 ms) > U (1.04)	no sig. diff	no sig. diff.	D > N****
	ms) > M (0.80 ms)***	$ ms \rangle > M (0.47 ms)^{****}$			
Rotate	W (0.86 ms) & M (0.84	W (1.09 ms) > U (1.08)	N > D***	N > D****	D > N****
	ms) > U (0.76 ms)**	$ ms \rangle > M (0.58 ms)^{****}$			
SIFT	W (350.30 ms) > U	W (326.29 ms) > U	$D > N^*$	N > D****	no sig. diff.
	(265.91 ms) > M (245.63)	(303.61 ms) > M (233.44)			
	ms)**	ms)****			
SURF	W (616.29 ms) > U	W (500.49 ms) > U	D > N****	D > N**	D > N****
	(446.17 ms) > M (202.83)	(416.53 ms) > M (159.20)			
	ms)****	ms)****			

Table 1: *: p < 0.05; **: p < 0.01; ***: p < 0.001; ****: p < 0.0001. Note for readability, all OSs and conditions have been abbreviated: W, M, and U, refer to Windows, macOS, and Ubuntu, respectively, and N and D refer to Native and Docker. When specifying the order, we only use comparisons that have significant differences.