

README

This table lists the count number of keypoints for all detectors, the total matches for all the detector/descriptor matches, and the time.

Sr. No.	Detector + Descriptor	Total Keypoints	Total Matches	Total Time (ms)	Ratio (matches/time)
1	SHITOMASI + BRISK	13423	2255	130.866	17.2314
2	SHITOMASI + BRIEF	13423	3234	88.4513	36.5625
3	SHITOMASI + ORB	13423	2856	104.508	27.3281
4	SHITOMASI + FREAK	13423	2299	328.829	6.99148
5	SHITOMASI + AKAZE	N/A	N/A	N/A	N/A
6	SHITOMASI + SIFT	13423	3213	148.844	21.5863
7	HARRIS + BRISK	728	219	87.8995	2.49148
8	HARRIS + BRIEF	728	257	91.3042	2.81477
9	HARRIS + ORB	728	252	84.9445	2.96664
10	HARRIS + FREAK	728	209	303.417	0.688821
11	HARRIS + AKAZE	N/A	N/A	N/A	N/A
12	HARRIS + SIFT	728	256	138.352	1.85036
13	FAST + BRISK	17874	3170	65.9564	48.0621
14	FAST + BRIEF	17874	4904	28.2515	173.584
15	FAST + ORB	17874	4254	20.8537	203.993
16	FAST + FREAK	17874	3164	273.283	11.5778
17	FAST + AKAZE	N/A	N/A	N/A	N/A
18	FAST + SIFT	17874	5734	145.081	39.5226
19	BRISK + BRISK	27116	5073	1927.9	2.63136
20	BRISK + BRIEF	27116	7474	1868.13	4.0008
21	BRISK + ORB	27116	5095	1880.68	2.70913
22	BRISK + FREAK	27116	5008	2117.78	2.36474
23	BRISK + AKAZE	N/A	N/A	N/A	N/A
24	BRISK + SIFT	27116	6934	2151.19	3.22333
25	ORB + BRISK	5000	1378	148.827	9.2591
26	ORB + BRIEF	5000	1403	124.765	11.2451
27	ORB + ORB	5000	1466	151.452	9.67964
28	ORB + FREAK	5000	627	354.735	1.76751
29	ORB + AKAZE	N/A	N/A	N/A	N/A
30	ORB + SIFT	5000	1578	334.629	4.71567
31	AKAZE + BRISK	13429	3240	396.324	8.17513
32	AKAZE + BRIEF	13429	4041	373.533	10.8183
33	AKAZE + ORB	13429	3340	379.433	8.80261
34	AKAZE + FREAK	13429	3228	577.112	5.59337
35	AKAZE + AKAZE	13429	3463	649.513	5.33169

36	AKAZE + SIFT	13429	3633	477.364	7.61054
37	SIFT + BRISK	13860	2458	433.876	5.66522
38	SIFT + BRIEF	13860	3243	427.952	7.57795
39	SIFT + ORB	OOM	OOM	OOM	OOM
40	SIFT + FREAK	13860	2428	667.155	3.63933
41	SIFT + AKAZE	N/A	N/A	N/A	N/A
42	SIFT + SIFT	13860	2557	749.038	3.41371

Among all the combination, the top three are

Sr. No.	Detector + Descriptor	Total Keypoints	Total Matches	Total Time (ms)	Ratio (matches/time)
15	FAST + ORB	17874	4254	20.8537	203.993
14	FAST + BRIEF	17874	4904	28.2515	173.584
13	FAST + BRISK	17874	3170	65.9564	48.0621