

Time vs. Number of Threads

The graph illustrates the relationship between the number of threads and the time taken for two operations: Darken and Grayscale. The x-axis represents the 'Number of Threads' from 1 to 16, and the y-axis represents 'Time' from 0 to 15. The 'Darken Time' (blue line) starts at approximately 13.5 for 1 thread and decreases to about 1.0 for 16 threads. The 'Grayscale time' (red line) starts at approximately 13.5 for 1 thread and decreases to about 1.0 for 16 threads. Both operations show a similar trend of decreasing time as the number of threads increases.

Number of Threads	Darken Time	Grayscale time
1	13.5	13.5
2	6.5	6.5
4	3.5	3.5
6	2.5	2.5
8	2.0	2.0
10	1.8	1.8
12	1.6	1.6
14	1.4	1.4
16	1.2	1.2