

# sievenna Testing

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sievenna’s Huffman coding has been tested on the Large Text Compression Benchmark [2] as well as an uncompressed tarball of the standard Calgary corpus [1].

Image compression benchmark used was an 8-bit RGB photograph called `nightshot_iso_100` from `imagecompression.info` [3].

## References

- [1] Timothy Bell, Ian H Witten, and John G Cleary. Modeling for text compression. **ACM Computing Surveys (CSUR)**, 21(4):557–591, 1989.
- [2] Matt Mahoney. Large text compression benchmark, 2011.
- [3] Rawzor. The new test images. [http://imagecompression.info/test\\_images/](http://imagecompression.info/test_images/), 2008. Accessed 26.12.2017.

File	Size	Compressed	Ratio	Comp. Time	Decomp. Time
nightshot_iso_100.ppm	22.128 MB	17.843427 MB	1.240	2.654 s	1.989 s
enwik8	100 MB	63.862	1.566	9.100 s	6.900 s
enwik9	1000 MB	648.370 MB	1.542	68 s	59 s
Calgary Corpus	3.154 MB	2.125 MB	1.484	0.385 s	0.321 s

Table 1: Performance statistics for Huffman coding. `enwik8` and `enwik9` are different sizes of the Large Text Compression Benchmark.