

# sourmash: a library for MinHash sketching of DNA

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#### Software

- Review 🗗
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# Summary

sourmash is a toolbox for creating, comparing, and manipulating MinHash sketches of genomic data.

MinHash sketches provide a lightweight way to store "signatures" of large DNA or RNA sequence collections, and then compare or search them using a Jaccard index. MinHash sketches can be used to identify samples, find similar samples, identify data sets with shared sequences, and build phylogenetic trees (Ondov et al. 2015).

sourmash provides a command line script, a Python library, and a CPython module for MinHash sketches.

### References

Ondov, Brian D, Todd J Treangen, Adam B Mallonee, Nicholas H Bergman, Sergey Koren, and Adam M Phillippy. 2015. "Fast Genome and Metagenome Distance Estimation Using Minhash." bioRxiv. Cold Spring Harbor Labs Journals, 029827. doi:10.1101/029827.