## Introduction to Biopython

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## What is Biopython?

- Biopython is a set of Python tools written specifically for biological applications.
- The main language for biological applications used to be Perl (BioPerl)
  - Biopython has now caught up to BioPerl functionality
  - Python syntax is more intuitive than Perl syntax

## What can we do with Biopython?

- Parse files of various types:
  - fasta/fastq, GenBank, Blast, Clustalw, PubMed, ExPASy, UniGene, SwissProt, etc
  - "Parsing" is breaking up data into useable chunks/objects
- Read in ^those files and print them to other files
- Go through all entries in a file and perform a command on each of them individually
  - Example: reverse complement, get the sequence name associated with a sequence, etc.
- Remember: there are multiple ways to do the same thing!