

K-MER EXPLORER

MARTÍN BASTERRECHEA

Node.js App for Frequent K-MER Discovery

Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient.

THE WORKFLOW

- The user uploads a fasta file with one or multiple sequences.
- The fasta gets parsed into sequences.
- All the k-mers are stored and counted in a non-efficient way.
 - In the meantime, the user is entertained with an amusing GIF (Xxxxxx *et al.*, 2015).
- The common k-mers are stored in a .json file.
- A summary from the .json file is displayed and the file can be downloaded.

A black cat is sitting on a silver laptop keyboard, which is open on a wooden table. The cat's front paws are resting on the keyboard. In the background, there is a kitchen counter with various items, including a red container and some fruit. A white chair is visible to the right of the laptop. The text "LETS GET INTO THE CODE" is overlaid in white, bold, sans-serif font across the center of the image.

LETS GET INTO THE
CODE