

SEQC - A fastq quality reporting app

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ABSTRACT

The abstract should state what the paper is about and what the main results of the work are. It is usually between 100 and 200 words long. Other people read the abstract to find out if this paper is interesting to them.

1 INTRODUCTION

- background into fastq qualities and why we need statistics about them)
- what use is a tool like this, how is it positioned in the workflow
- which tools exist (fastqc, fastx, etc. with ref to references like these references (??). Sometimes, you might want to say that ? published an interesting paper in ? or that ? suggested a global alignment algorithm.

2 METHODS

- show a usage scenario to show how the app is working – possibly with pictures of some output
- list which measures can the app report on
- short explanation of the features, each with problem that it solves, impact on the overall working of the software (e.g. usage, performance implications)
 - Nucleotide distribution statistics
 - Quality distribution statistics
 - Auto detection of FASTQ quality encoding
 - Sequence duplication statistics
- how we structure the app: Do implementation details belong in this report? How much detail should we give
- usage of seqan lib

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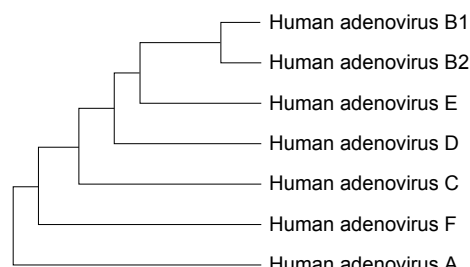


Figure 1. This is a figure caption.

2.1 A subsection with a figure

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3 RESULTS AND DISCUSSION

having a hard time figuring out how to seperate Methods and Results from each subtopic.

3.1 Input and Output

Which inputs are supported (and app-tested). how do they compare to the results of existing tools.

How do our outputs compare to other outputs (fastqc, fastx)?

Which problems does this app not solve, but would be useful for a tool like this? trimming, adapter removal,

3.2 Performance

Describe the performace measures of comparative runs on different datasets. Resource and time requirements, possibly with chart table showing results of timed runs and user time memory CPU usage

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The conclusion should contain a very brief summary of the results. It discusses alternatives and possible extension, and gives an outlook to what could be done next.

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REFERENCES