

Documentation

class NanopolishOutputData.**NanopolishOutputData** (*path*)

Interface to nanopolish output data. Takes path to protobuf serialized nanopolish output data and offers methods for data retrieval.

get_event_align (*position*, *read_index=0*)

Raises key error if (*position*, *read_index*) does not exist in data. *Read_index* default is zero for convenience. E.g. if someone is working with only one reference contig read.

position: int Position in reference read.

read_index: int Index of contig, because reference can have more reads.

event_align: object

get_events (*position*, *read_index=0*)

get_line (*line_number*)

Method works in $O(\log n)$ where n is number of event_aligns. If you want to iterate through lines in linear time don't use this method.

line_number: int

(event_align, event): Pair consisting of event_align object (which generally has more events) and specific event on given line. Returned event can be also found as element of event_align.events.

get_line_cnt ()

Returns number of lines in original nanopolish txt output.

get_model (*position*, *read_index=0*)

position: int Position in reference read.

read_index: int Index of contig, because reference can have more reads.

(model_kmer, model_mean, model_stdv)

get_reference_kmer (*position*, *read_index=0*)

class NanopolishOutputParser.**NanopolishOutputParser** (*path*)

Nanopolish txt output parser, produces protobuf serialization if 'serialize' method is called.

serialize (*path*)

Writes protobuf serialization string in file. Data is sorted by pairs (*read_index*, *position*).

path: string Path to file where serialized string of data should be written.