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# NanoPlot report

## Summary statistics prior to filtering

### General summary:

Active channels:	169
Mean read length:	23212.6
Mean read quality:	10.1
Median read length:	9390.0
Median read quality:	10.3
Number of reads:	371
Read length N50:	60395
Total bases:	8611871

### Number, percentage and megabases of reads above quality

#### cutoffs

>Q5:	371 (100.0%) 8.6Mb
>Q7:	371 (100.0%) 8.6Mb
>Q10:	207 (55.8%) 4.7Mb
>Q12:	49 (13.2%) 0.9Mb
>Q15:	0 (0.0%) 0.0Mb

### Top 5 highest mean basecall quality scores and their read lengths

1:	13.3 (6333)
2:	13.1 (5448)
3:	12.9 (27834)
4:	12.8 (20351)
5:	12.8 (97730)

### Top 5 longest reads and their mean basecall quality score

1:	393431 (10.6)
2:	341725 (11.8)
3:	320662 (8.0)
4:	226843 (9.1)
5:	221901 (10.0)

## Summary statistics after filtering

### General summary:

Active channels:	169
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### Top 5 highest mean basecall quality scores and their read lengths

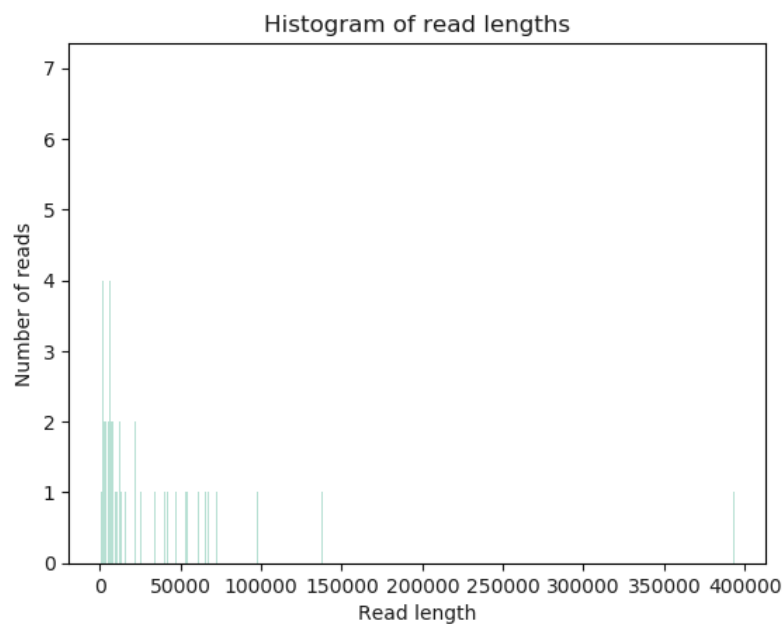
1:	13.3 (6333)
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3:	12.9 (27834)
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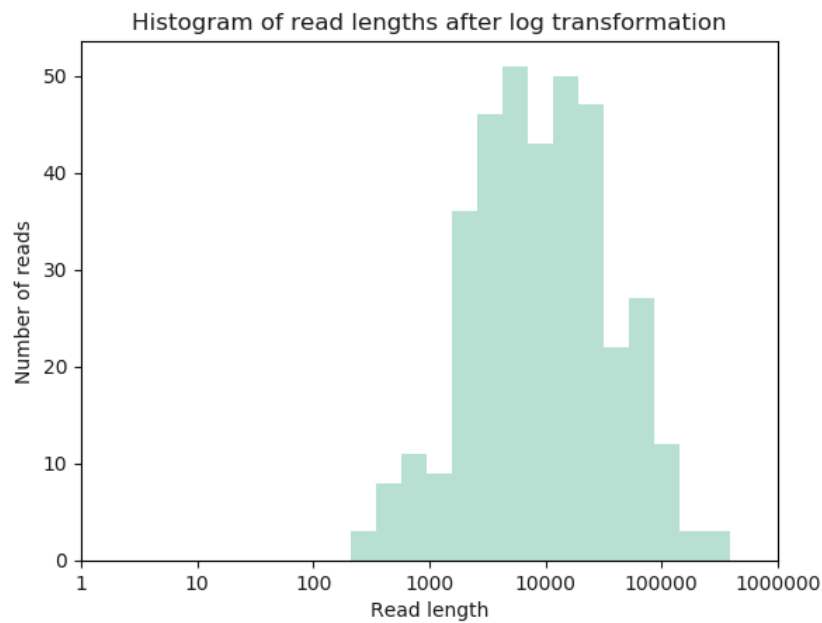
1:	393431 (10.6)
2:	341725 (11.8)
3:	320662 (8.0)
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## Plots

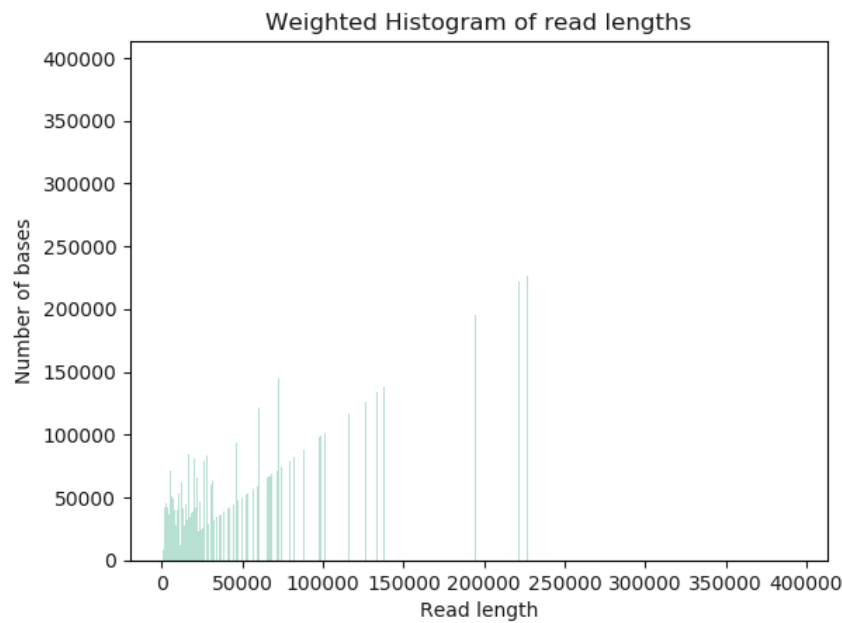
### Histogram of read lengths



Histogram of read lengths after log transformation

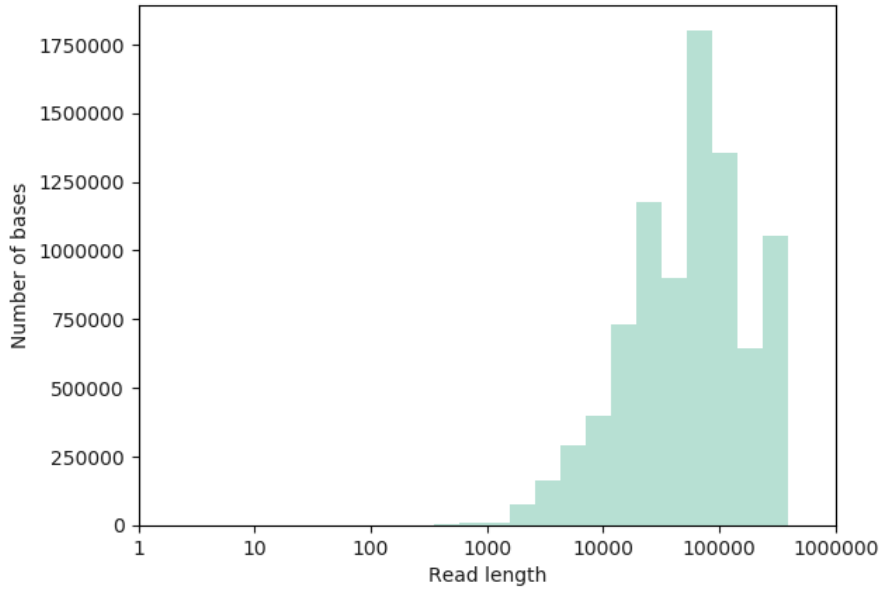


Weighted Histogram of read lengths

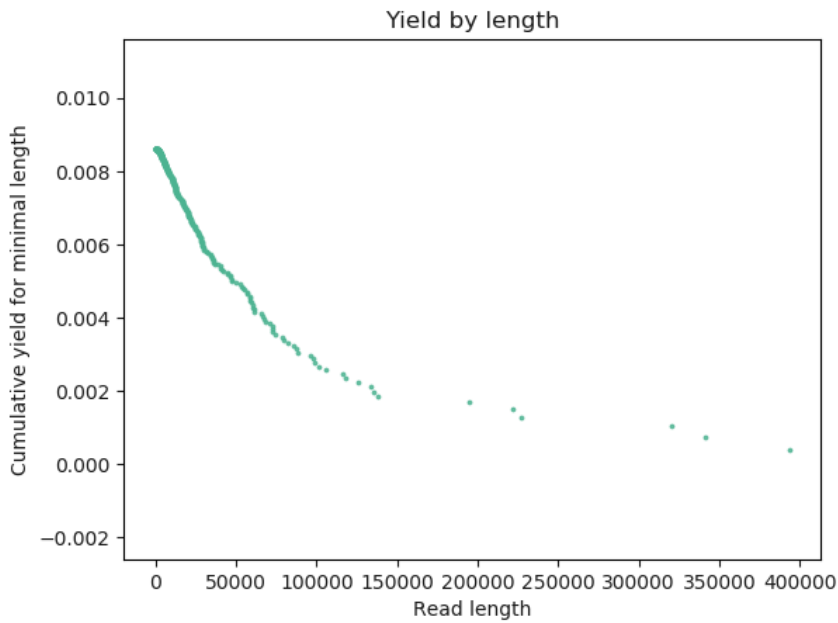


Weighted Histogram of read lengths after log transformation

Weighted Histogram of read lengths after log transformation

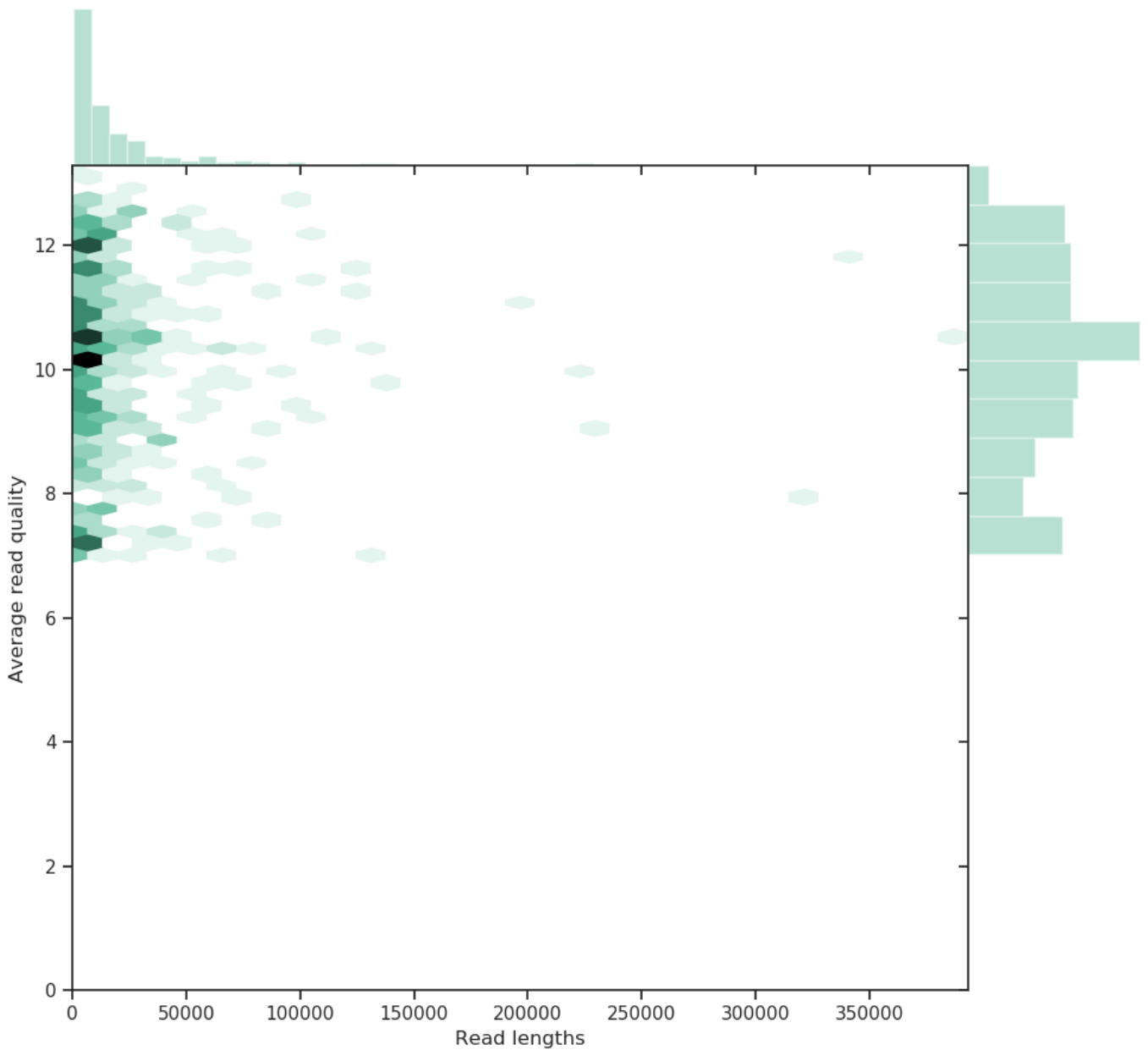


Yield by length



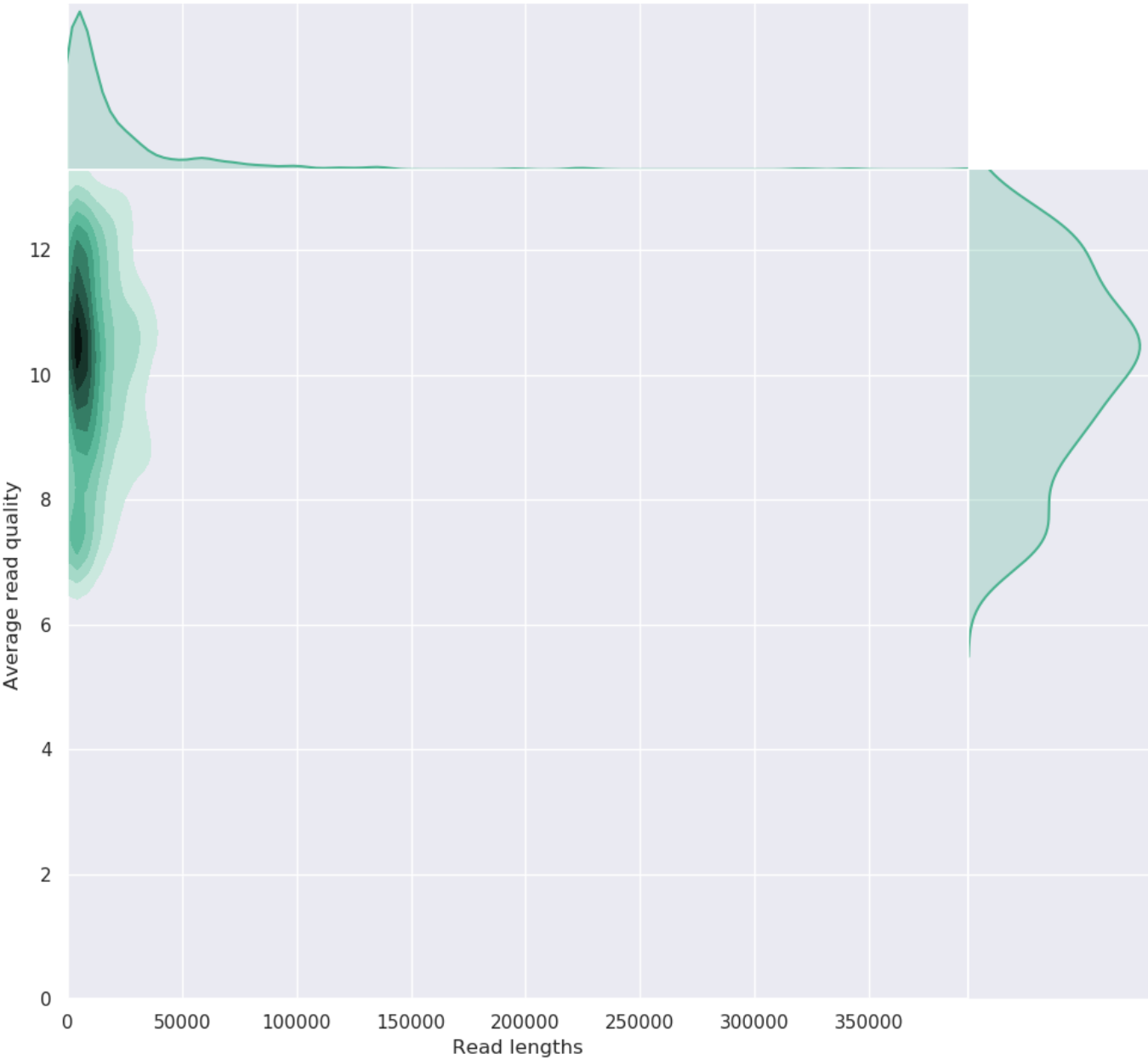
Read lengths vs Average read quality plot using hexagonal bins

Read lengths vs Average read quality plot

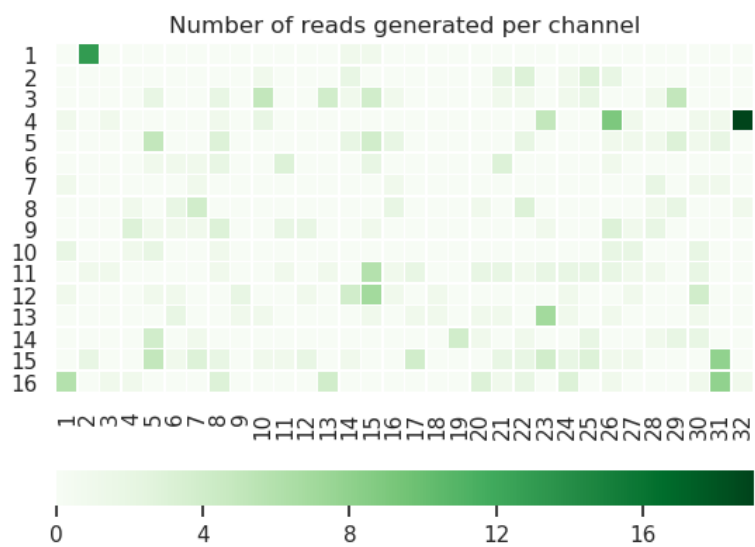


Read lengths vs Average read quality plot using a kernel density estimation

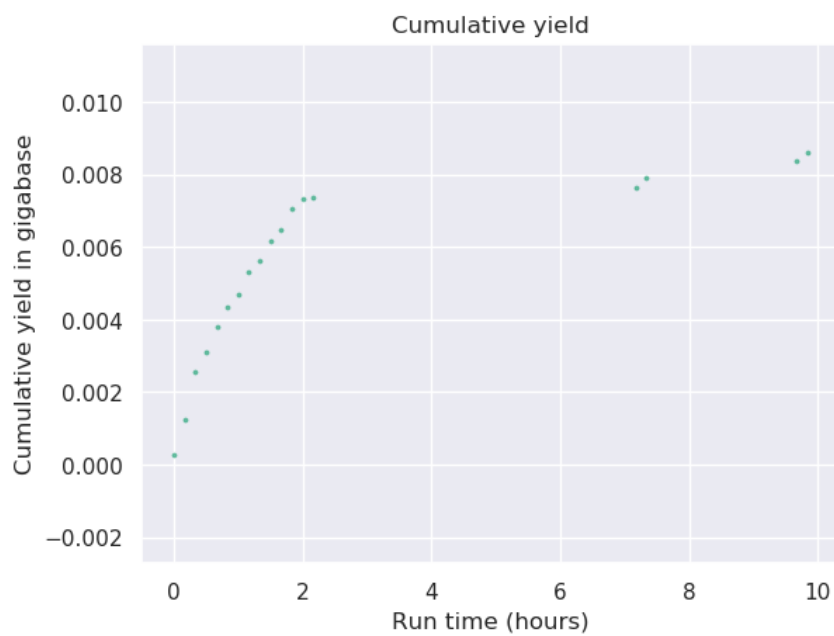
Read lengths vs Average read quality plot



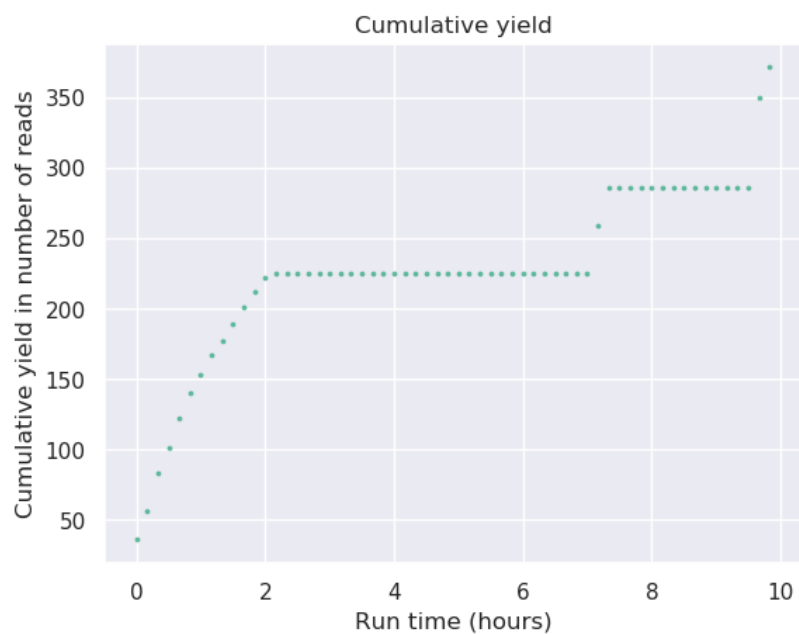
Number of reads generated per channel



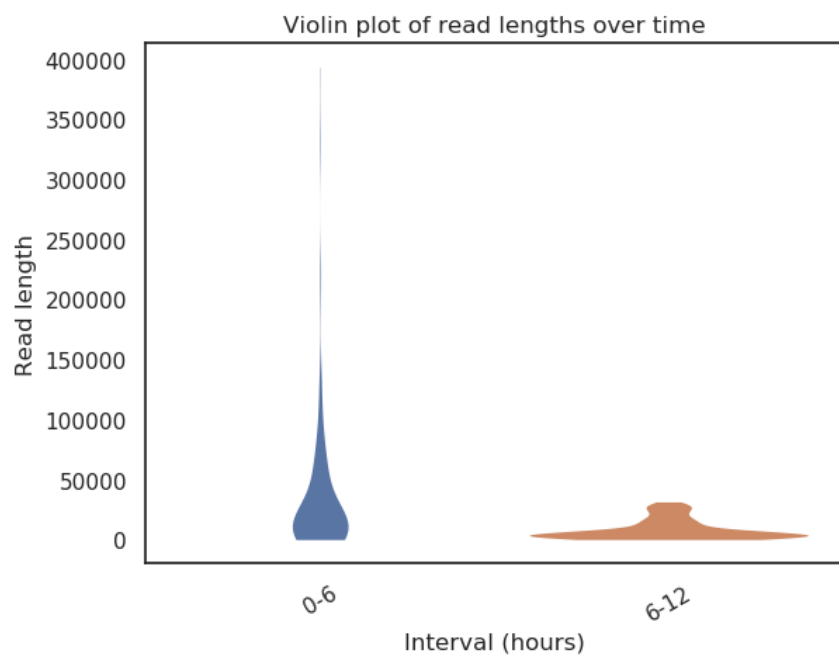
### Cumulative yield



### Cumulative yield







Violin plot of quality over time

