

[Summary Statistics prior to filtering](#)[Summary Statistics after filtering](#)[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](#)[Read lengths vs Average read quality plot using dots](#)[Read lengths vs Average read quality plot using a kernel density estimation](#)[Number of reads generated per channel](#)[Cumulative yield](#)[Cumulative yield](#)[Violin plot of read lengths over time](#)[Violin plot of quality over time](#)

## NanoPlot report

### Summary statistics prior to filtering

**General summary:**

Active channels:	2778
Mean read length:	4005.0
Mean read quality:	7.6
Median read length:	3257.0
Median read quality:	8.3
Number of reads:	36527376
Read length N50:	5288
Total bases:	146291709850

**Number, percentage and megabases of reads above quality cutoffs**

>Q5:	31232052 (85.5%) 13470.4Mb
>Q7:	26067742 (71.4%) 11381.6Mb
>Q10:	1125643 (3.1%) 426.6Mb
>Q12:	29 (0.0%) 0.0Mb
>Q15:	0 (0.0%) 0.0Mb

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

1:	12.7 (687)
2:	12.3 (1586)
3:	12.3 (1100)
4:	12.3 (1922)
5:	12.3 (541)

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

1:	595673 (2.9)
2:	589222 (4.0)
3:	584493 (2.8)
4:	495815 (6.2)
5:	474236 (6.2)

### Summary statistics after filtering

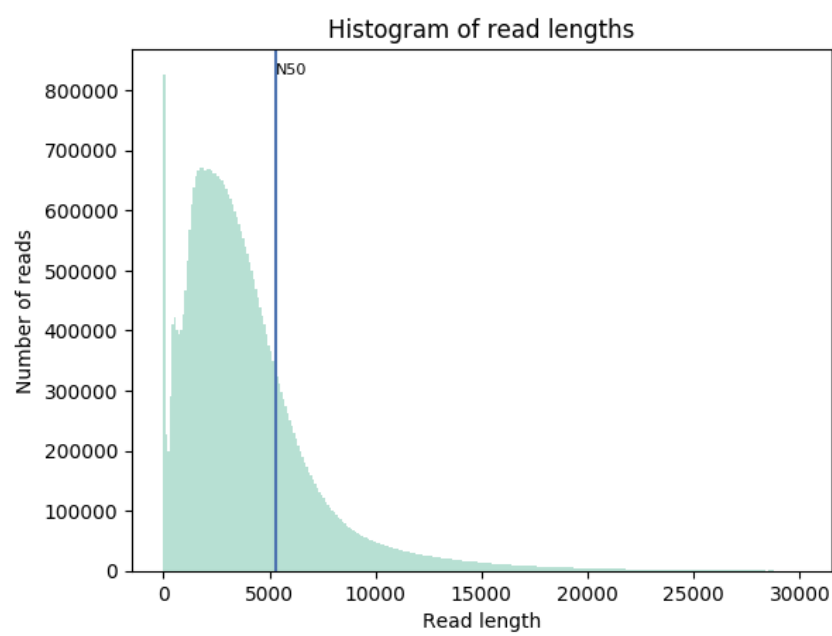
**General summary:**

Active channels:	2778
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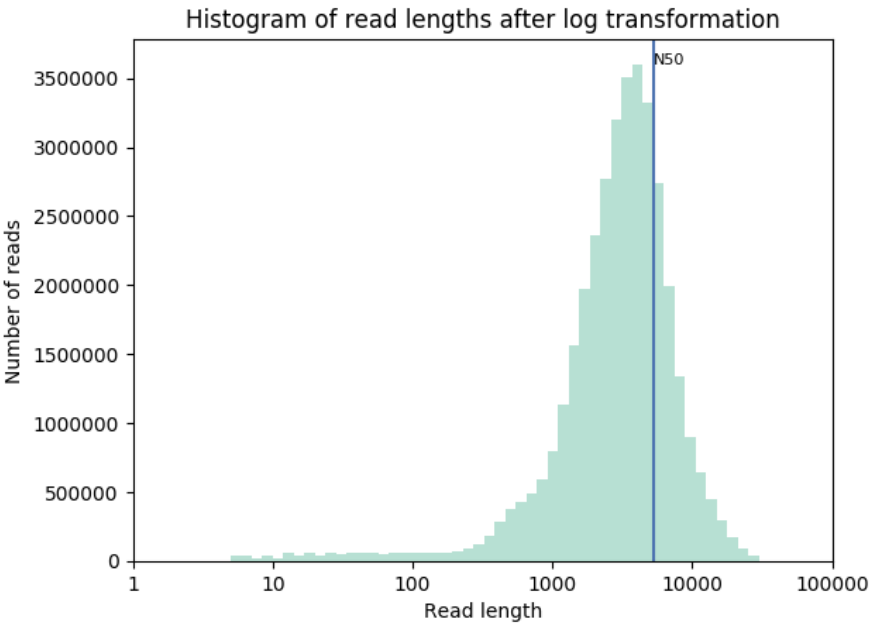
Mean read length:	3991.9
Mean read quality:	7.6
Median read length:	3256.0
Median read quality:	8.3
Number of reads:	36512802
Read length N50:	5273
Total bases:	145755243278
<b>Number, percentage and megabases of reads above quality cutoffs</b>	
>Q5:	31218421 (85.5%) 13423.6Mb
>Q7:	26056205 (71.4%) 11342.7Mb
>Q10:	1125536 (3.1%) 426.2Mb
>Q12:	29 (0.0%) 0.0Mb
>Q15:	0 (0.0%) 0.0Mb
<b>Top 5 highest mean basecall quality scores and their read lengths</b>	
1:	12.7 (687)
2:	12.3 (1586)
3:	12.3 (1100)
4:	12.3 (1922)
5:	12.3 (541)
<b>Top 5 longest reads and their mean basecall quality score</b>	
1:	29999 (8.7)
2:	29999 (4.9)
3:	29999 (7.0)
4:	29999 (9.1)
5:	29998 (6.7)

Plots

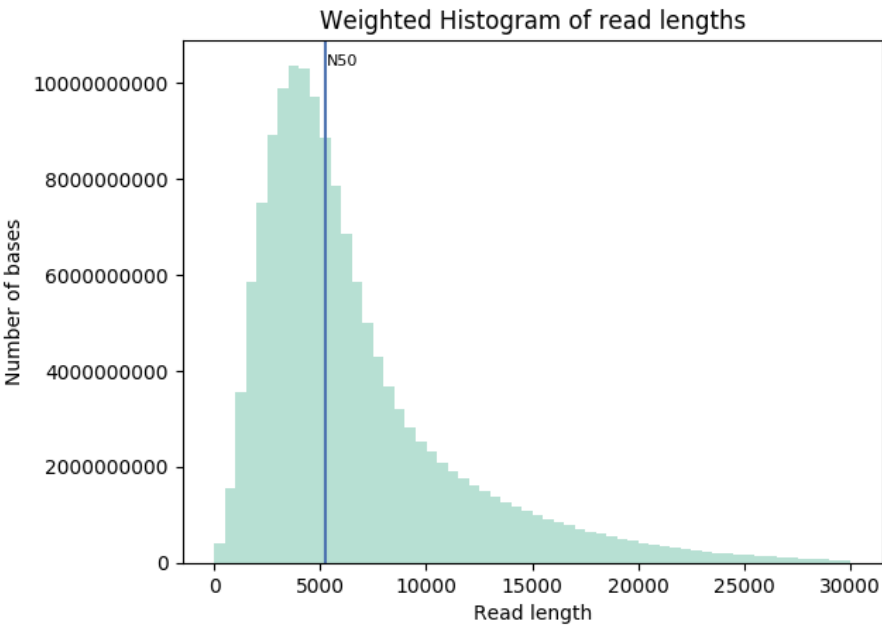
Histogram of read lengths



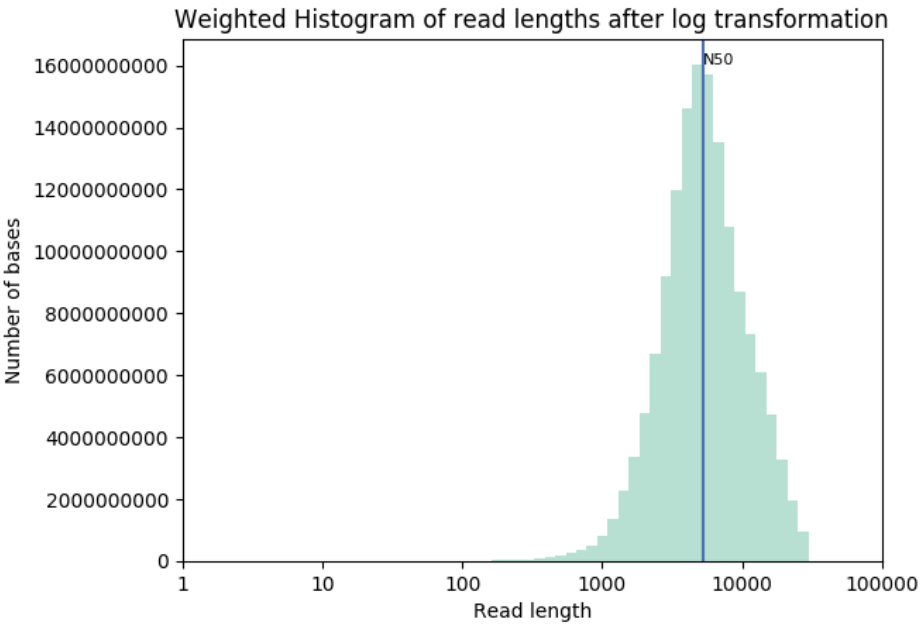
Histogram of read lengths after log transformation



Weighted Histogram of read lengths

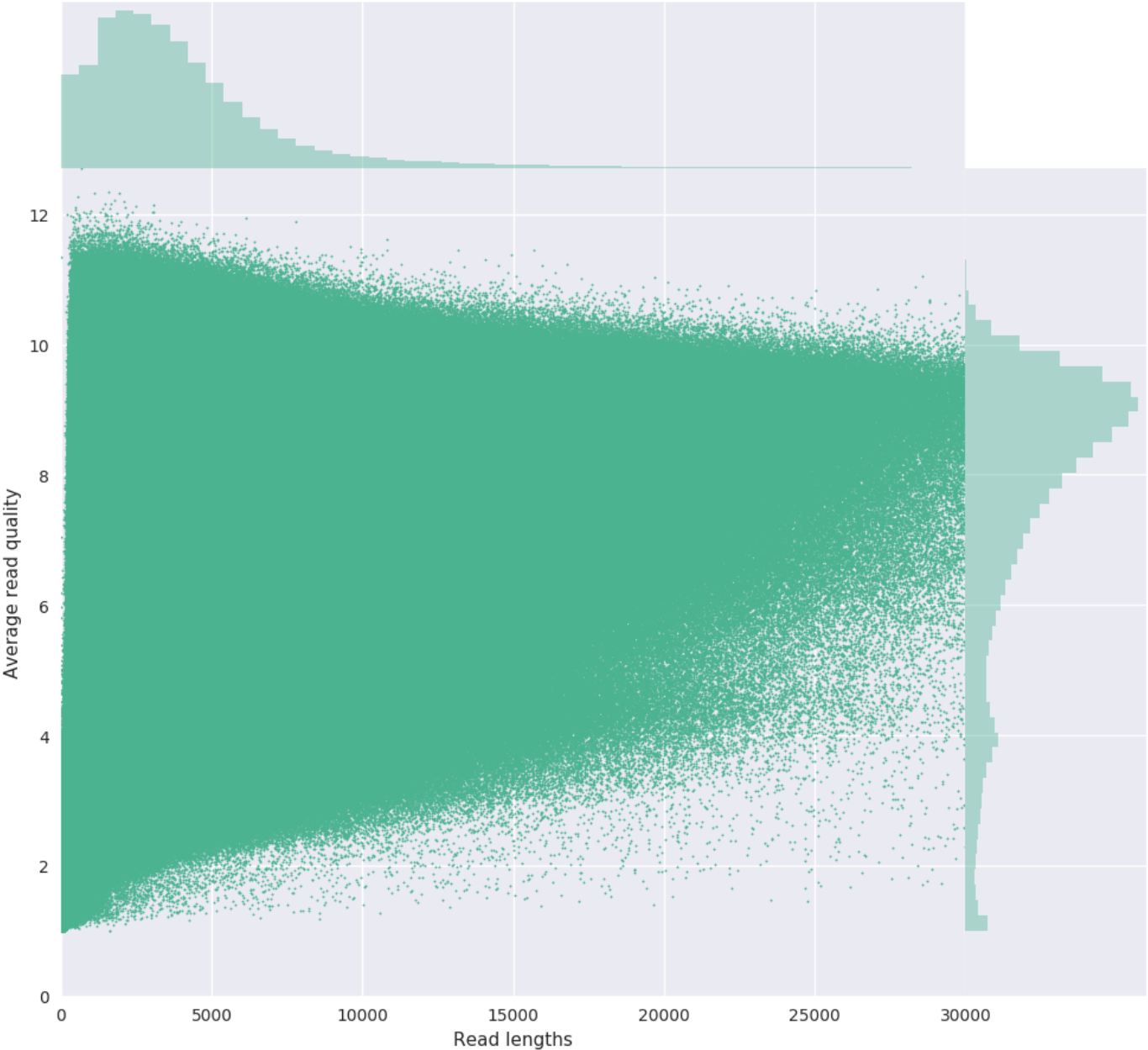


Weighted Histogram of read lengths after log transformation



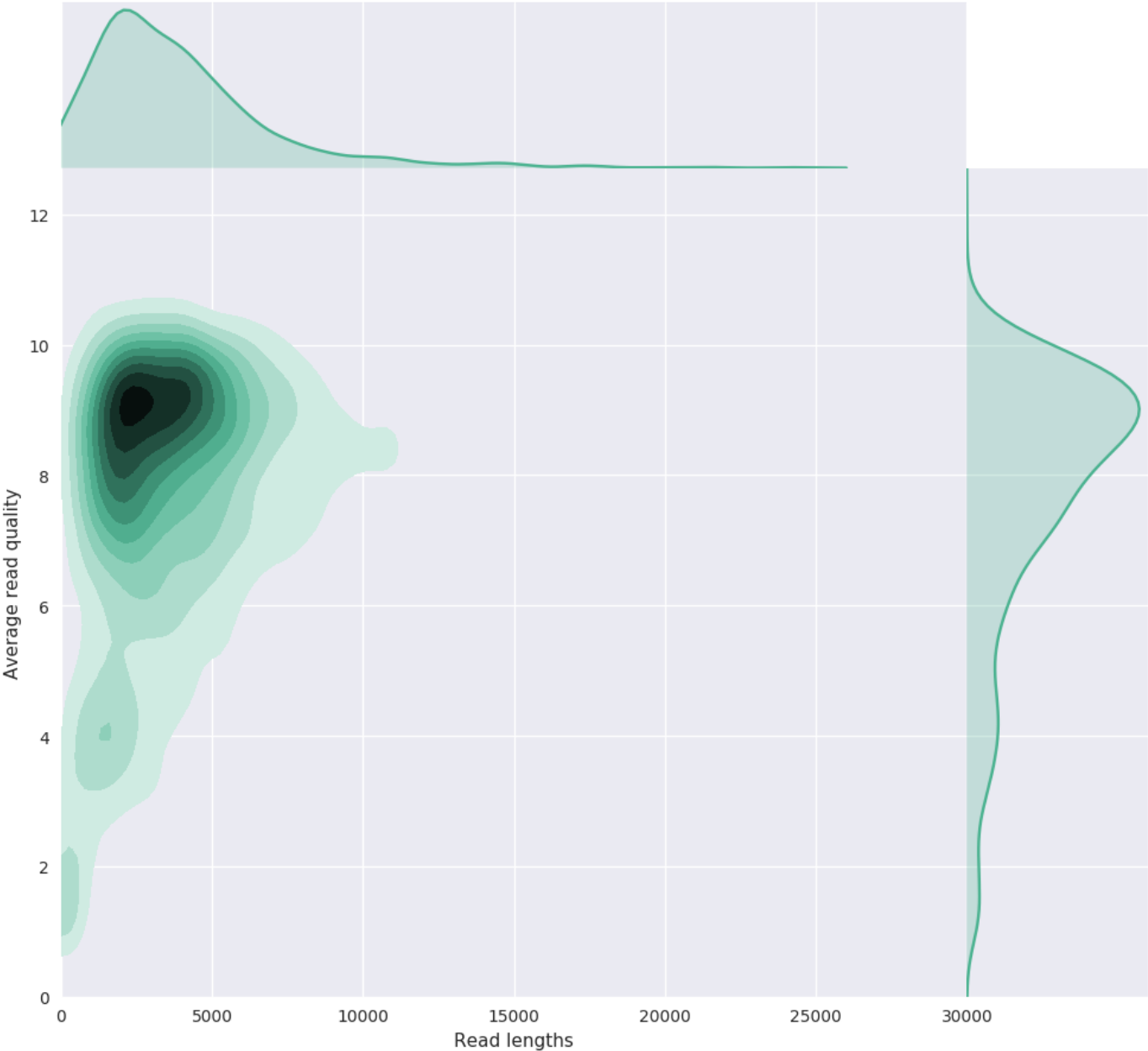
**Read lengths vs Average read quality plot using dots**

# Read lengths vs Average read quality plot

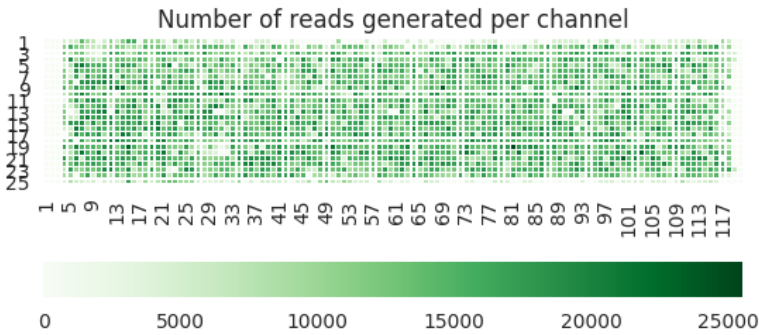


**Read lengths vs Average read quality plot using a kernel density estimation**

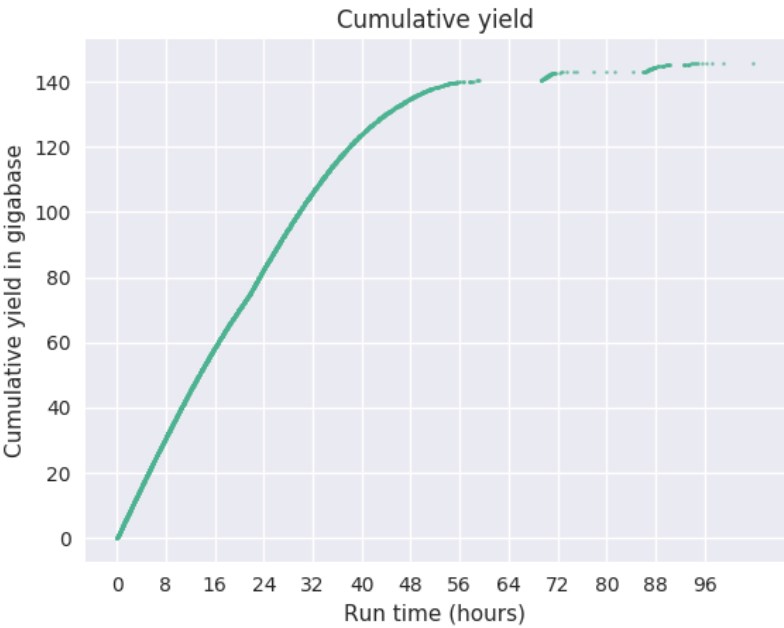
# Read lengths vs Average read quality plot



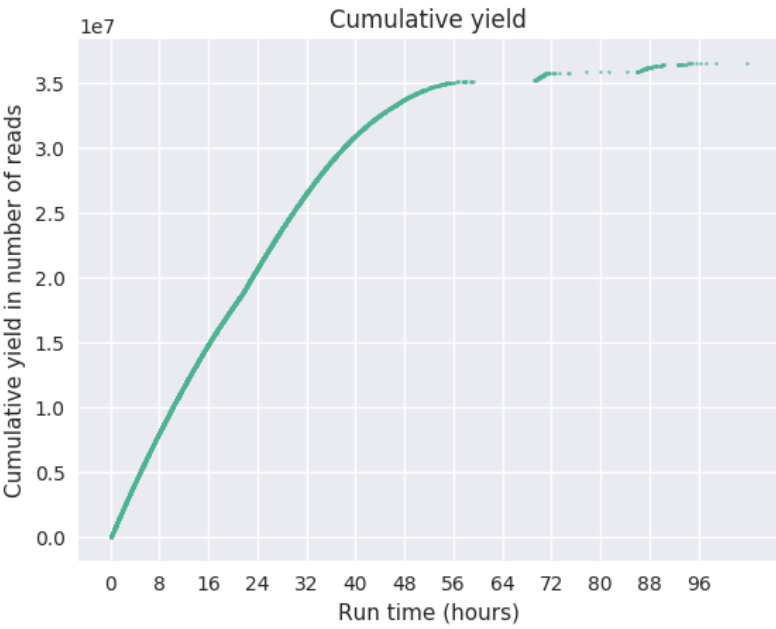
## Number of reads generated per channel



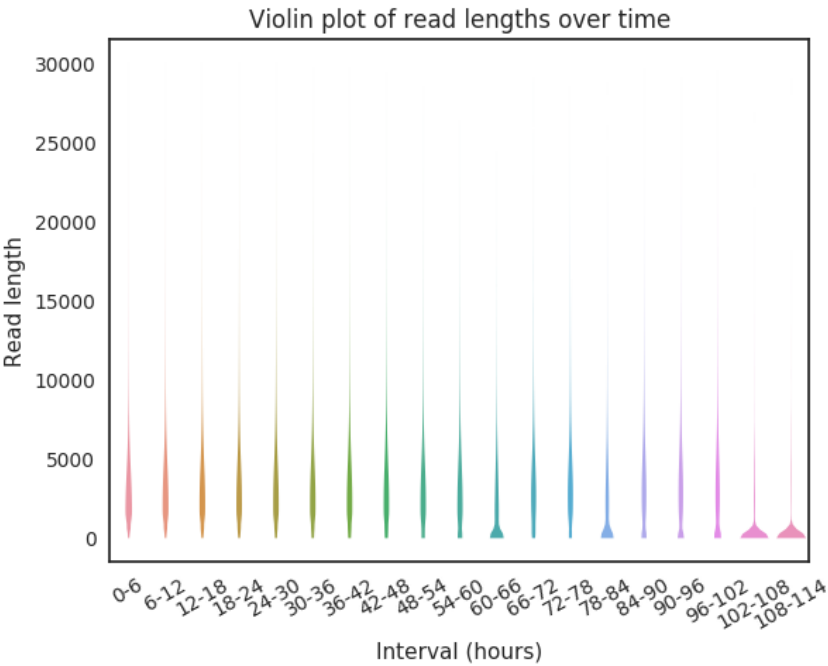
## Cumulative yield



Cumulative yield



Violin plot of read lengths over time



Violin plot of quality over time

