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NanoPlot report

Summary statistics prior to filtering

General summary:

Active channels: 2554
 Mean read length: 13148.5
 Mean read quality: 8.2
 Median read length: 6109.0
 Median read quality: nan
 Number of reads: 5787529
 Read length N50: 32039
 Total bases: 76097400969

Number, percentage and megabases of reads above quality cutoffs

>Q5: 4779829 (82.6%) 74202.0Mb
 >Q7: 4332079 (74.9%) 69623.3Mb
 >Q10: 1743450 (30.1%) 30118.5Mb
 >Q12: 11414 (0.2%) 44.6Mb
 >Q15: 35 (0.0%) 0.0Mb

Top 5 highest mean basecall quality scores and their read lengths

1: 22.4 (26; c0b6d12a-cd7f-4b95-bd9e-48b530f9d87d)
 2: 22.1 (19; a18863f9-33d0-43ae-8a80-9c5d788f6c23)
 3: 21.6 (735; 6f0e25a0-f608-42f2-aff7-69a6a8323e29)
 4: 21.5 (55; e072e61c-8d63-41ba-bb06-4ef9b2e0fcee)
 5: 20.9 (1186; fc4da20a-2446-442a-9397-e2d27e8f615f)

Top 5 longest reads and their mean basecall quality score

1: 4368874 (5.1; 4b9b0ffa-3936-4be8-8570-4000e01b9b93)
 2: 2096447 (5.0; c2610c83-7bcf-464a-aea6-c6c4a6300806)
 3: 2076915 (4.8; d84af812-88fe-42d4-9c88-7a92aa9119bb)

4: 1708455 (4.4; e5e88b12-978b-47d5-8a40-cd2844d38203)
 5: 1596371 (4.9; 7f713541-8a30-4485-bafd-8313f4c73505)

Summary statistics after filtering

General summary:

Active channels: 2535
 Mean read length: 23093.5
 Mean read quality: 9.8
 Median read length: 18826.0
 Median read quality: 9.8
 Number of reads: 2601202
 Read length N50: 35033
 Total bases: 60070831535

Number, percentage and megabases of reads above quality cutoffs

>Q5: 2601202 (100.0%) 60070.8Mb
 >Q7: 2601202 (100.0%) 60070.8Mb
 >Q10: 1172543 (45.1%) 28505.0Mb
 >Q12: 1721 (0.1%) 26.6Mb
 >Q15: 0 (0.0%) 0.0Mb

Top 5 highest mean basecall quality scores and their read lengths

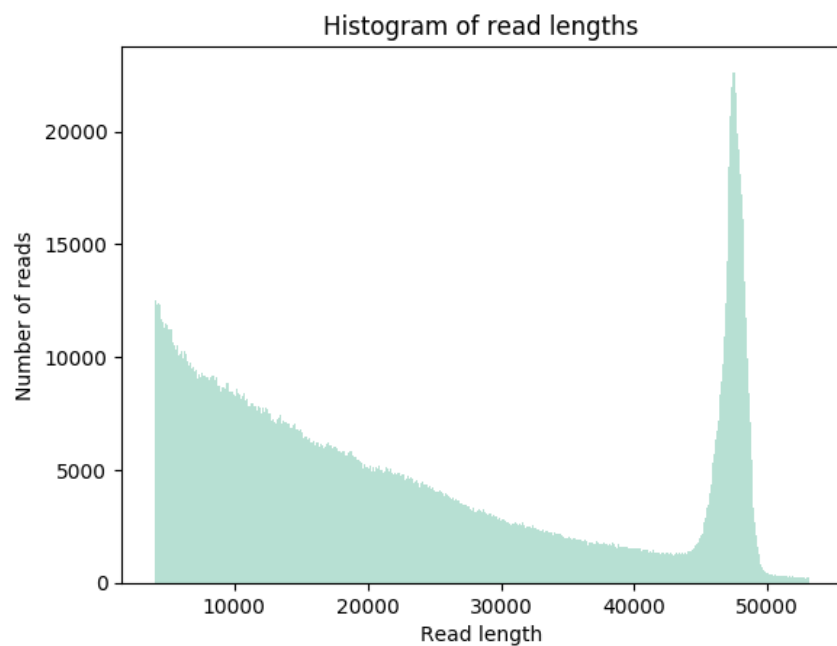
1: 13.2 (34026; 2688bd6d-39bc-424b-b032-3d20f2a37020)
 2: 13.2 (12182; c0af86ad-e6e0-4d60-b928-bc6e1069f472)
 3: 13.1 (12495; 847414d3-1b7e-484f-a903-d5a793dc315f)
 4: 13.1 (4174; 2cea7ce5-5a3b-49a3-9b11-72695643cade)
 5: 13.1 (7388; 9cc29c6b-5c4f-4802-ab1a-9f051710ff8c)

Top 5 longest reads and their mean basecall quality score

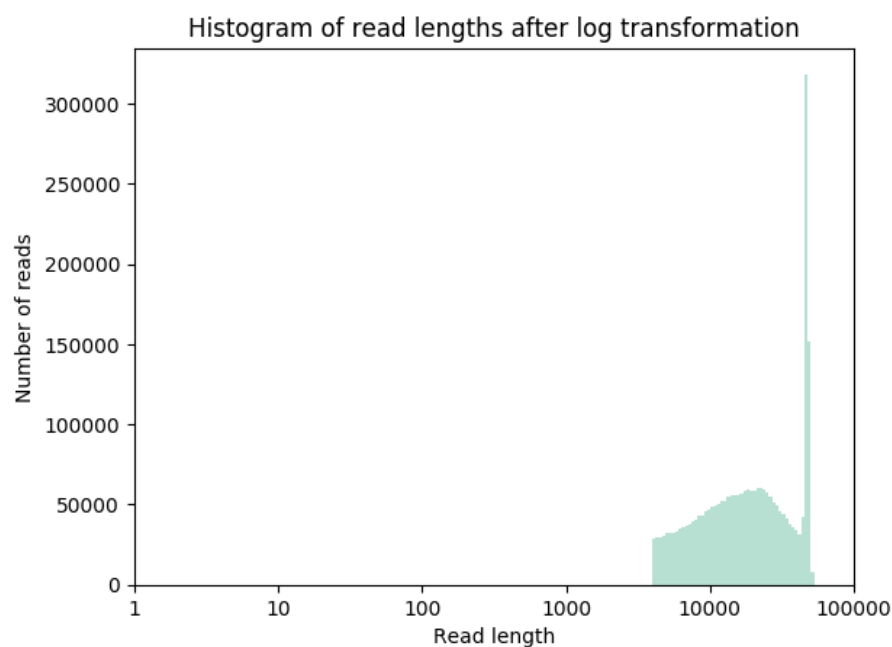
1: 53086 (10.0; 0dff8eb5-d773-4df9-9db7-8bb291311a97)
 2: 53086 (11.1; 78ca6cba-4dcb-440b-97da-362755baa91b)
 3: 53086 (8.7; 1268cfbb-6a8c-466f-8f1c-6159bb35ad8c)
 4: 53086 (10.1; a78b148b-63a3-41f7-b3f1-e4f23c88e8a0)
 5: 53086 (10.9; 4d91f3e1-8fc8-4ee4-a95a-40000e6a150f)

Plots

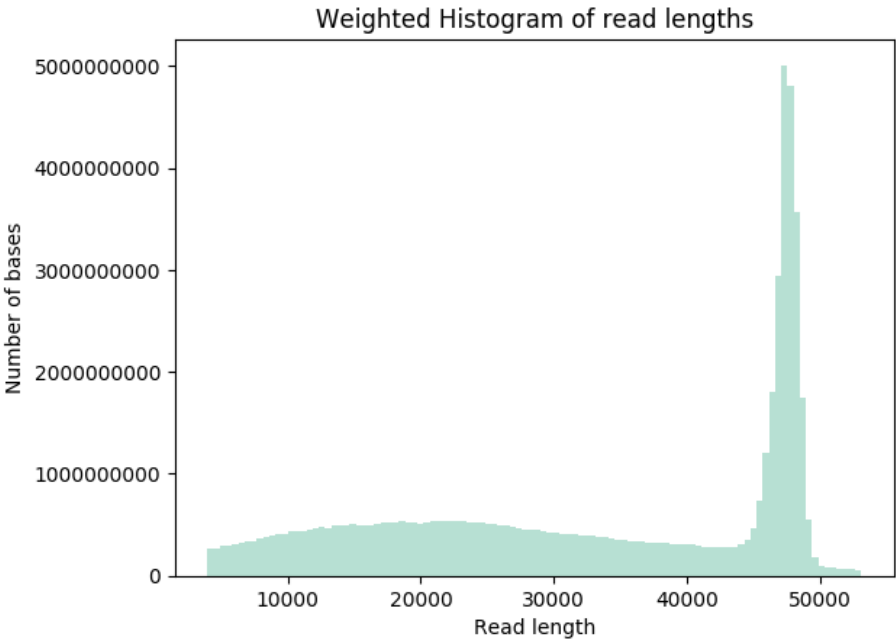
Histogram of read lengths



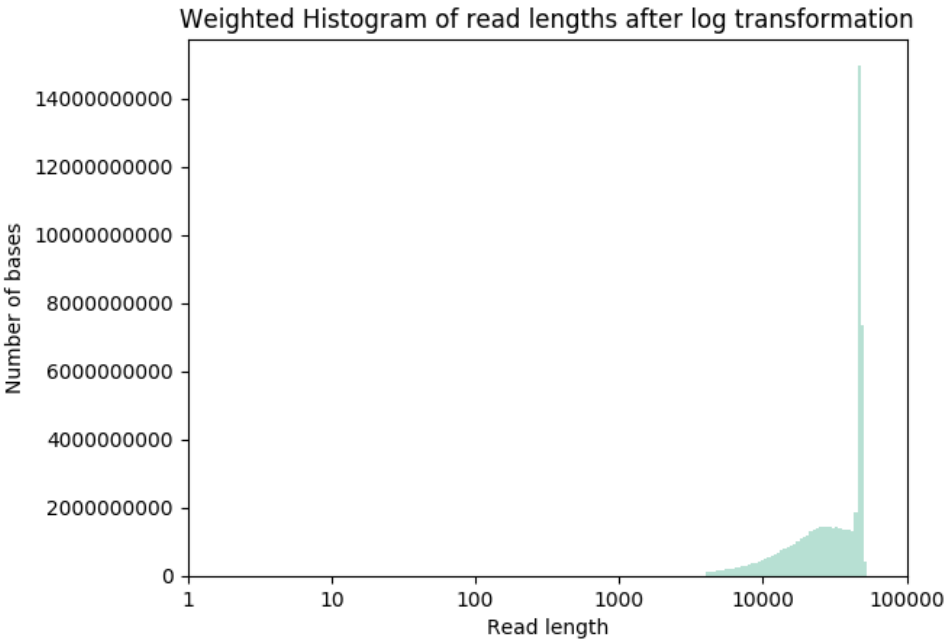
Histogram of read lengths after log transformation



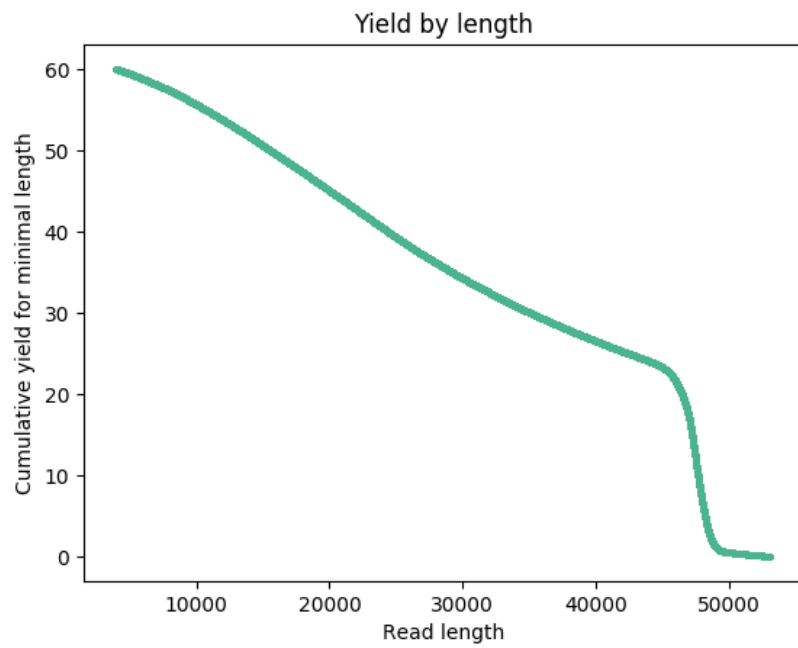
Weighted Histogram of read lengths



Weighted Histogram of read lengths after log transformation

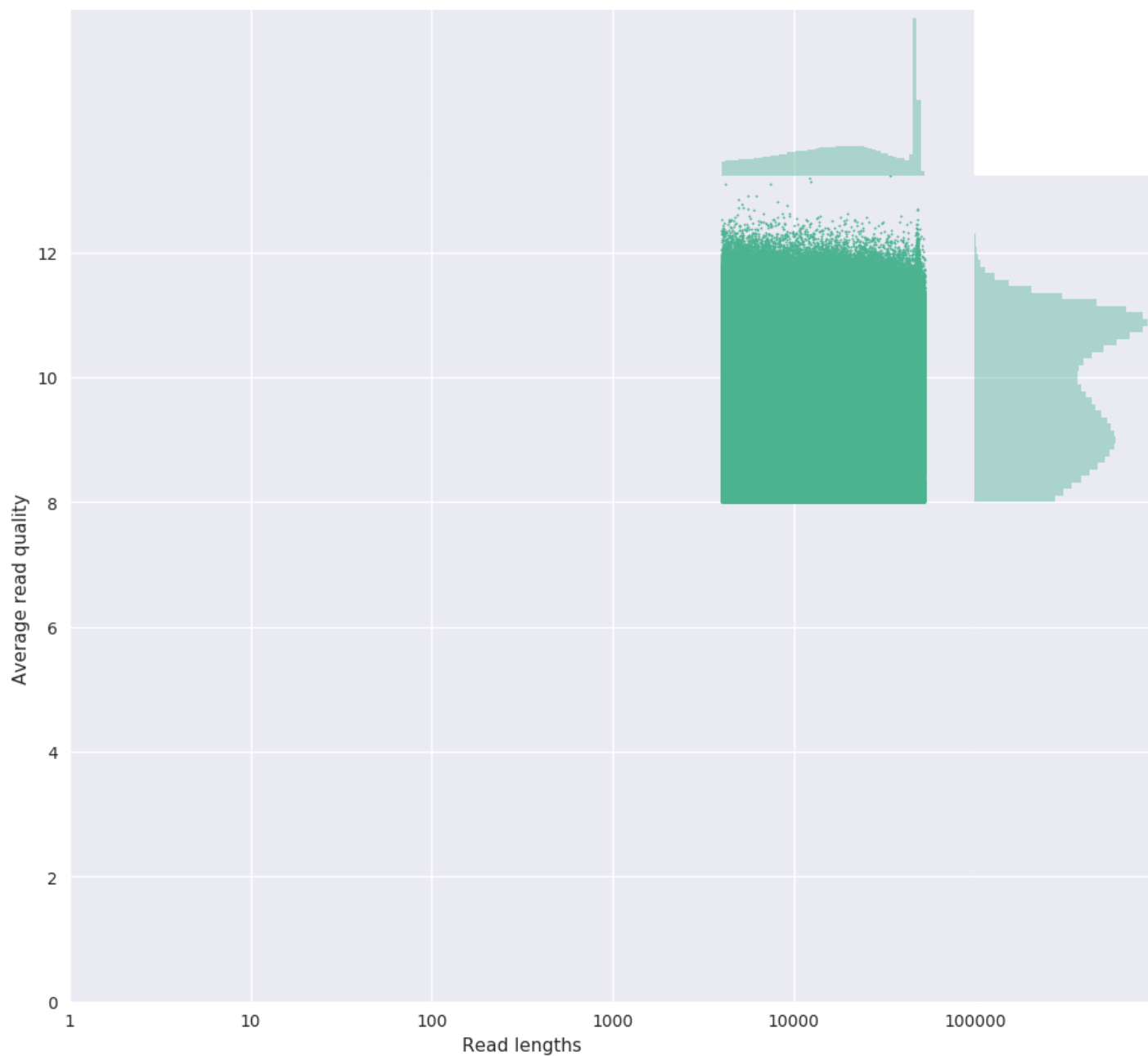


Yield by length



Read lengths vs Average read quality plot using dots after log transformation of read lengths

Read lengths vs Average read quality plot

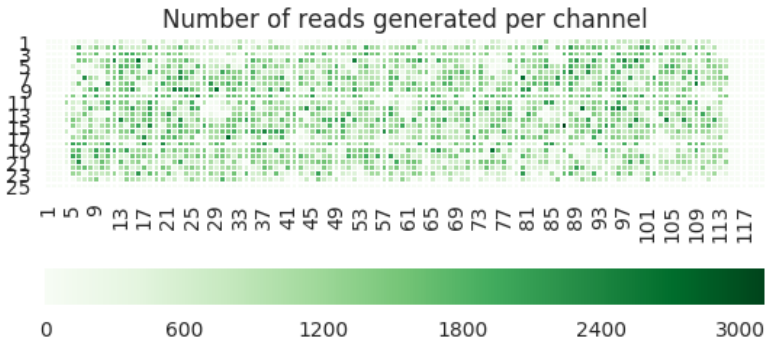


Read lengths vs Average read quality plot using a kernel density estimation after log transformation of read lengths

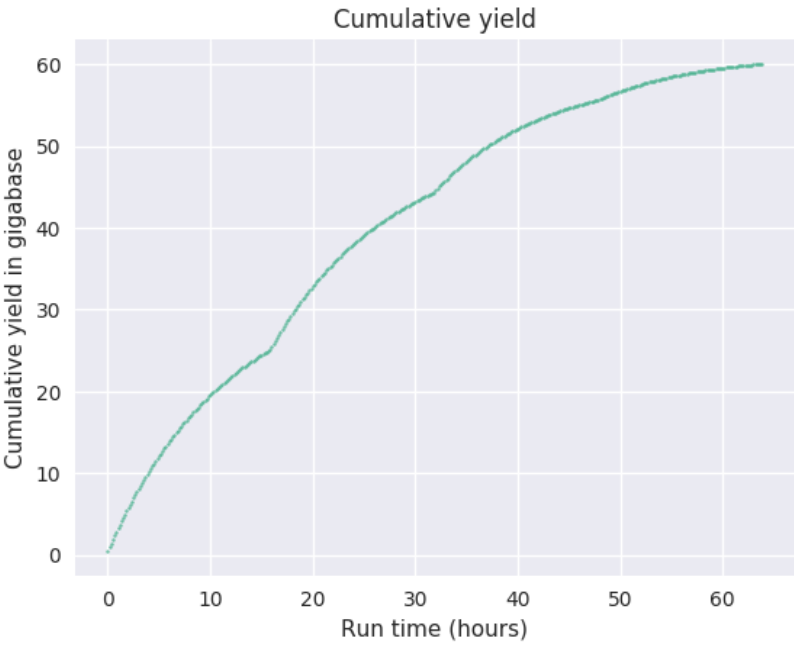
Read lengths vs Average read quality plot



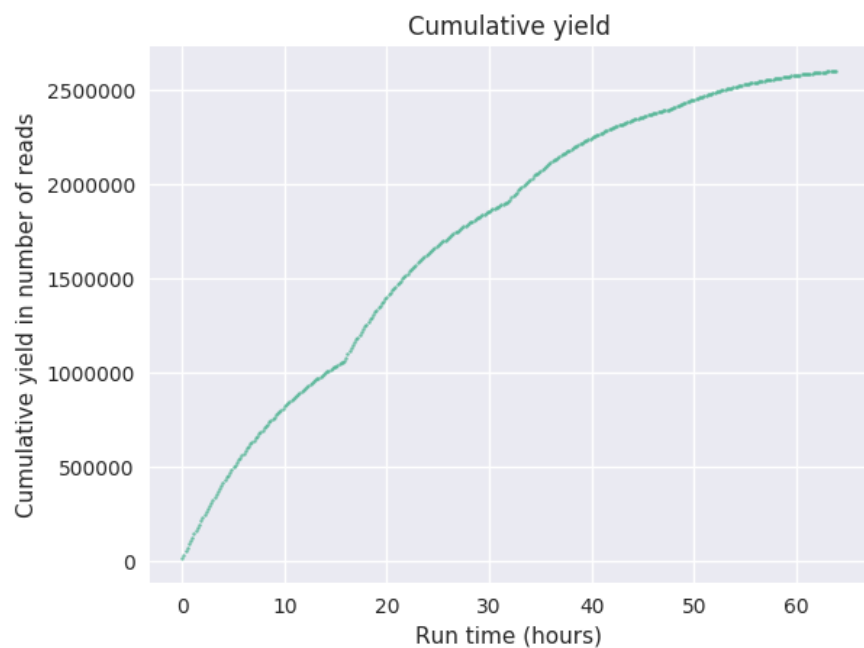
Number of reads generated per channel



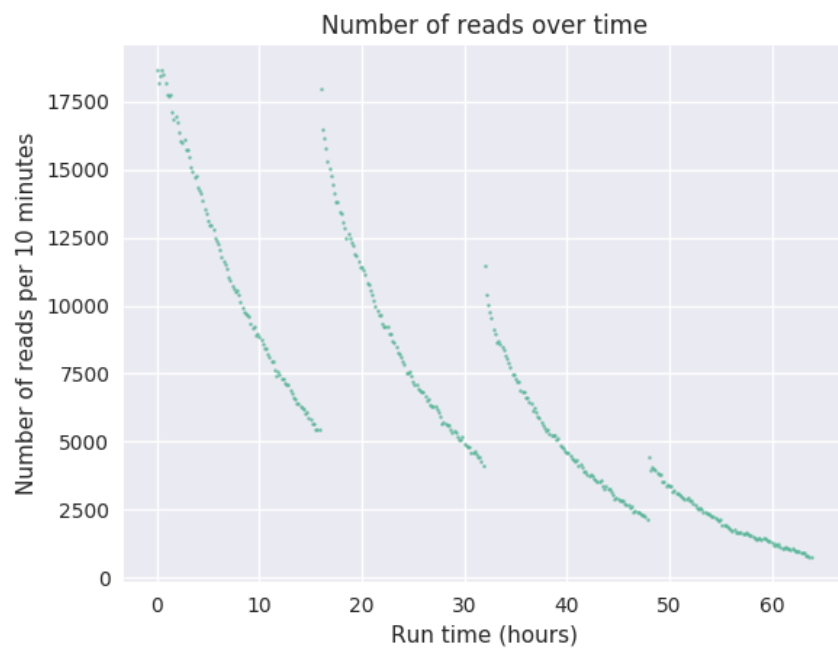
Cumulative yield



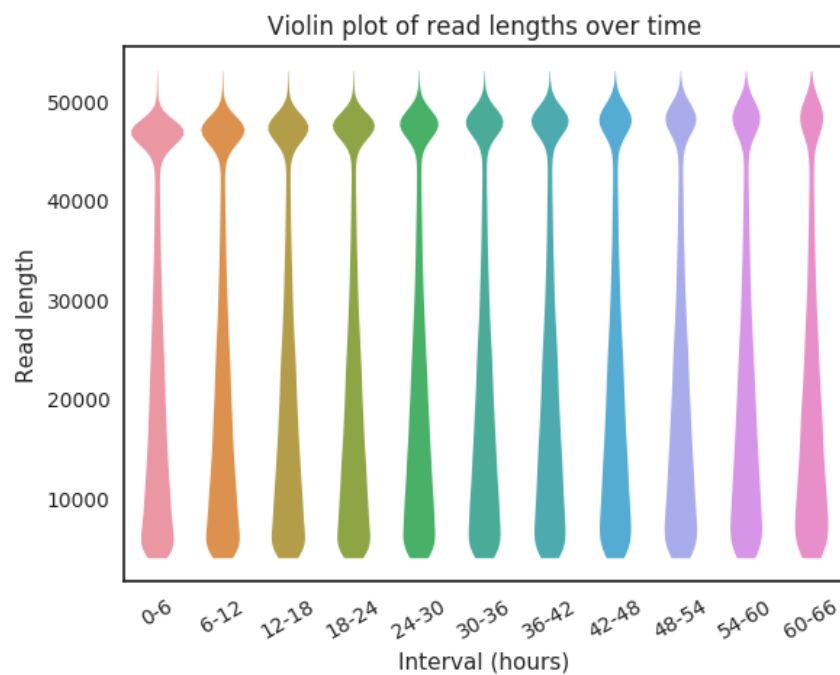
Cumulative yield



Number of reads over time



Violin plot of read lengths over time



Violin plot of quality over time

