

P1LS_BWaseMeDip Report

methy1QA* version 0.1.6 (r040)

September 3, 2016

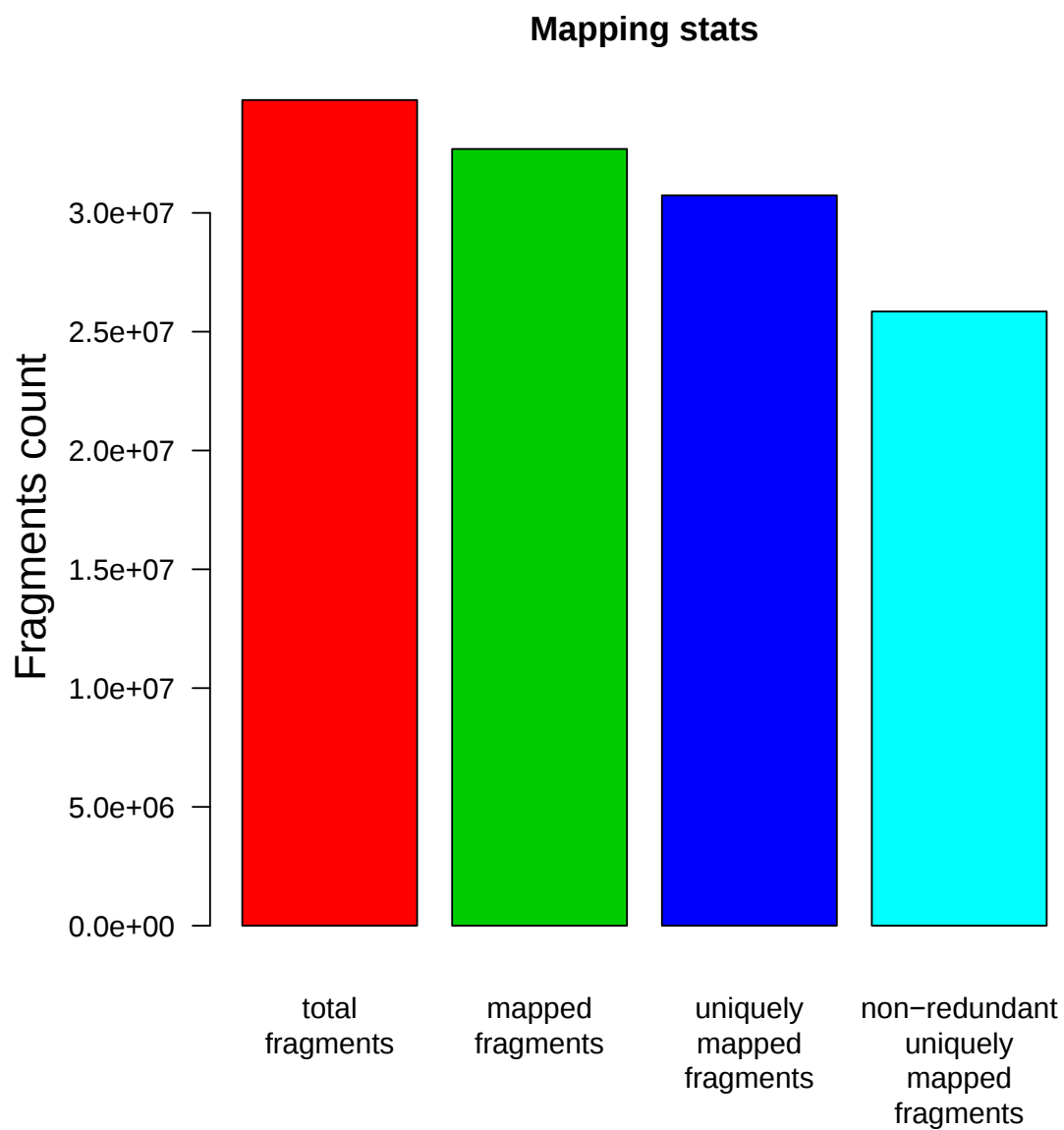
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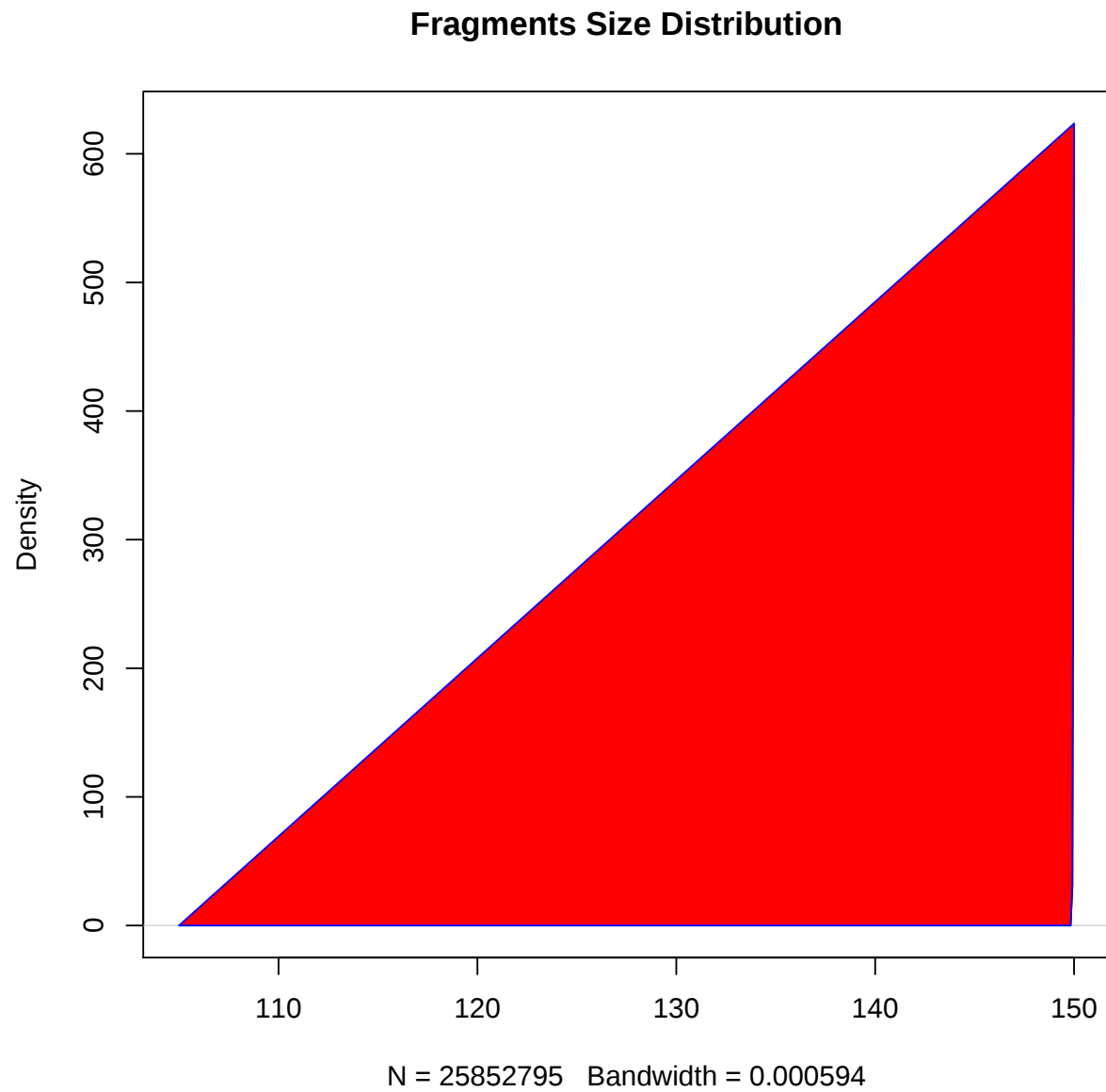
*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

total fragments	34749290
mapped fragments	32690551
uniquely mapped fragments	30739355
non-redundant uniquely mapped fragments	25852795

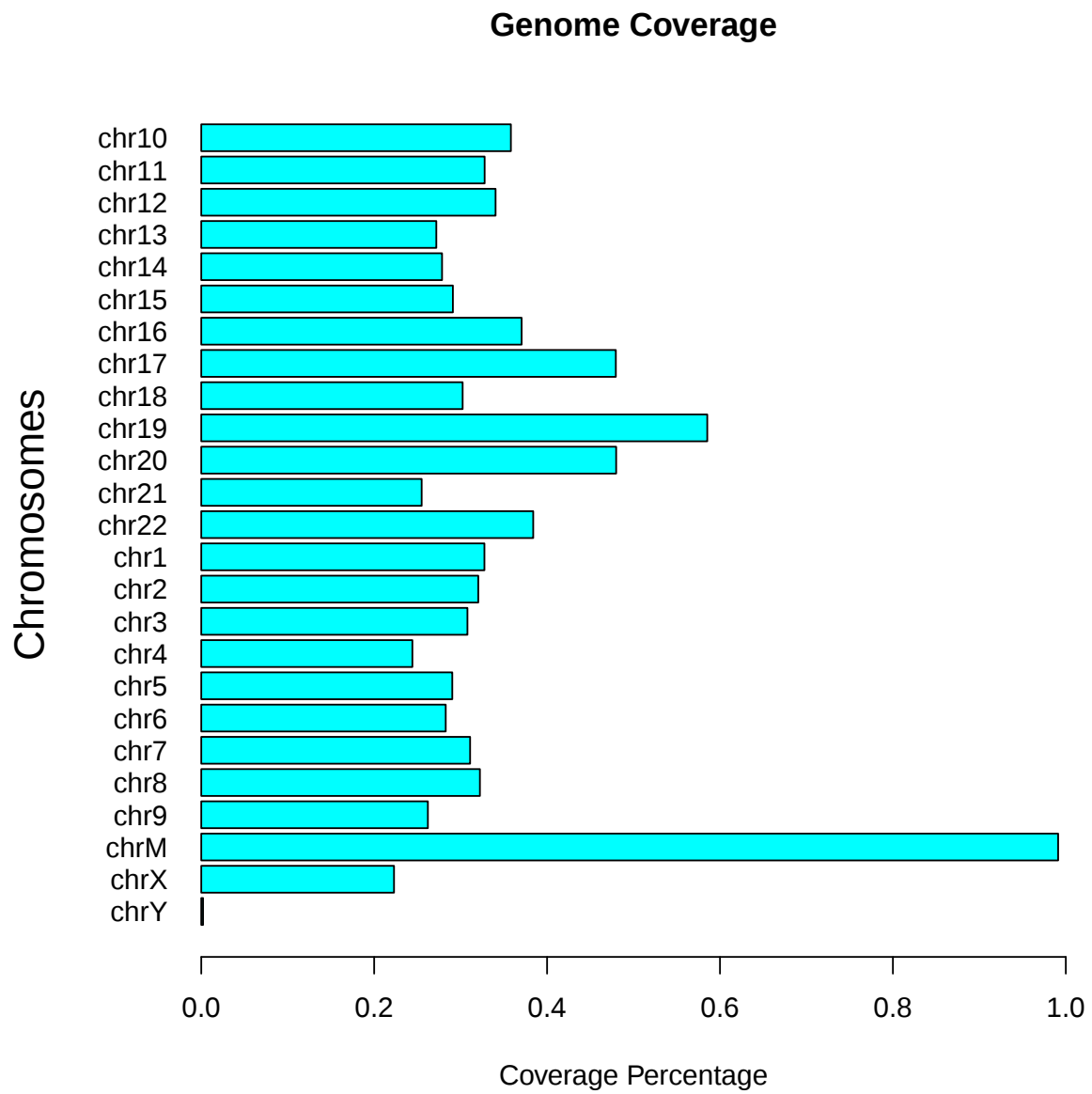


2 Fragments size distribution



3 Genomic coverage

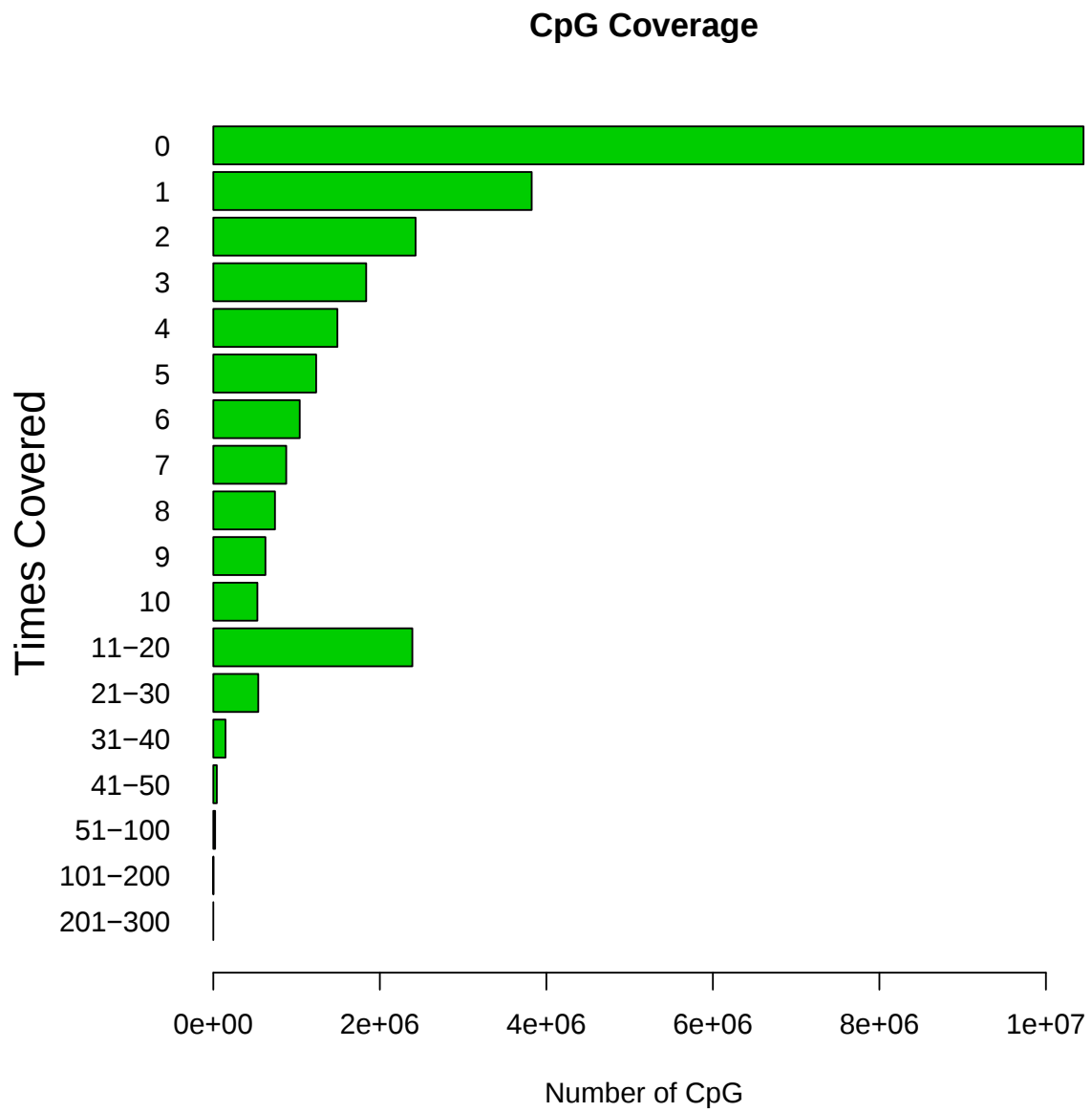
chromosome	total base	covered base	covered percentage
chr10	135534747	48537520	35.81%
chr11	135006516	44249207	32.78%
chr12	133851895	45565486	34.04%
chr13	115169878	31313612	27.19%
chr14	107349540	29896151	27.85%
chr15	102531392	29842222	29.11%
chr16	90354753	33482906	37.06%
chr17	81195210	38934283	47.95%
chr18	78077248	23603783	30.23%
chr19	59128983	34606730	58.53%
chr20	63025520	30244876	47.99%
chr21	48129895	12269721	25.49%
chr22	51304566	19699754	38.40%
chr1	249250621	81633050	32.75%
chr2	243199373	77922171	32.04%
chr3	198022430	60963711	30.79%
chr4	191154276	46677758	24.42%
chr5	180915260	52526345	29.03%
chr6	171115067	48384137	28.28%
chr7	159138663	49486817	31.10%
chr8	146364022	47173025	32.23%
chr9	141213431	37014495	26.21%
chrM	16571	16424	99.11%
chrX	155270560	34617628	22.30%
chrY	59373566	123802	0.21%
Whole Genome	3095693983	958785614	30.97%



4 CpG status

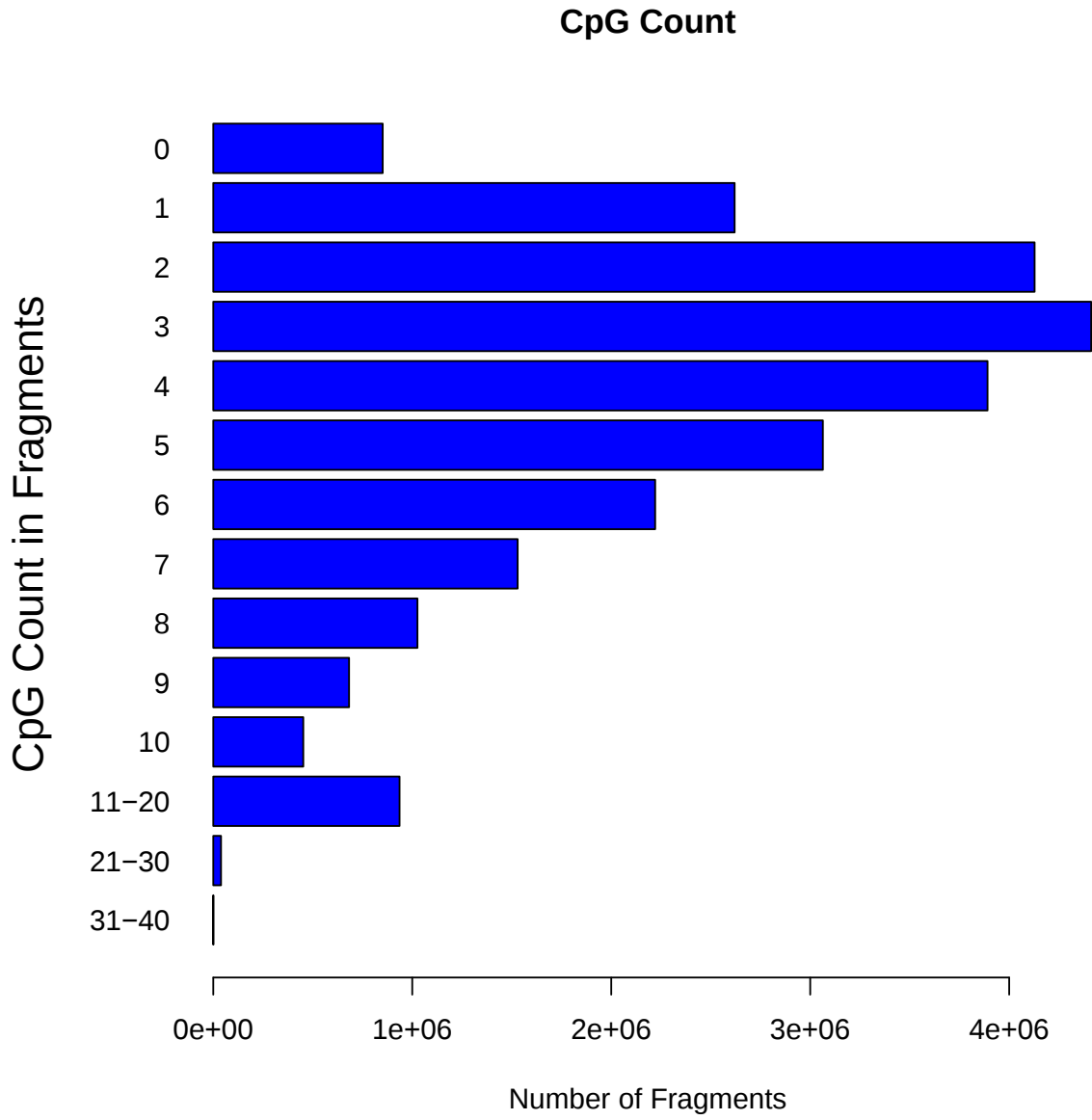
4.1 CpG coverage

Range	Count
0	10451696
1	3823812
2	2429711
3	1836016
4	1490187
5	1235157
6	1037954
7	875639
8	740505
9	625914
10	529397
11-20	2390375
21-30	539834
31-40	146662
41-50	42054
51-100	21663
101-200	826
201-300	46



4.2 CpG count

Range	Count
0	851635
1	2620074
2	4127680
3	4411939
4	3891158
5	3063533
6	2220736
7	1529757
8	1026132
9	682427
10	452281
11-20	936155
21-30	38975
31-40	313



5 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{111062635 / 3877918896}{28217448 / 3095693983}
 \end{aligned}$$

$$= 3.14$$