

USS2_BWaseMeDip Report

methy1QA* version 0.1.6 (r040)

September 3, 2016

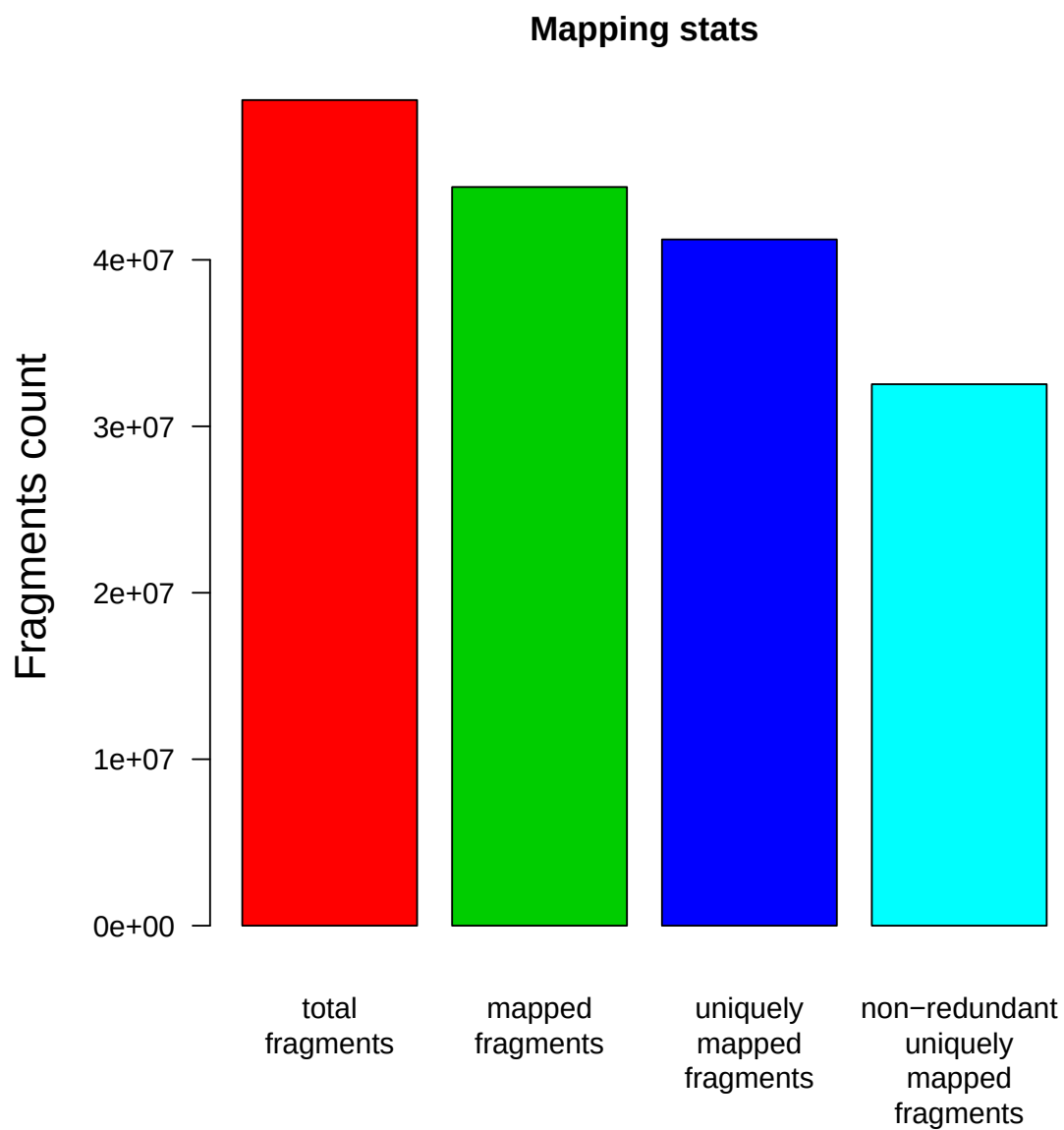
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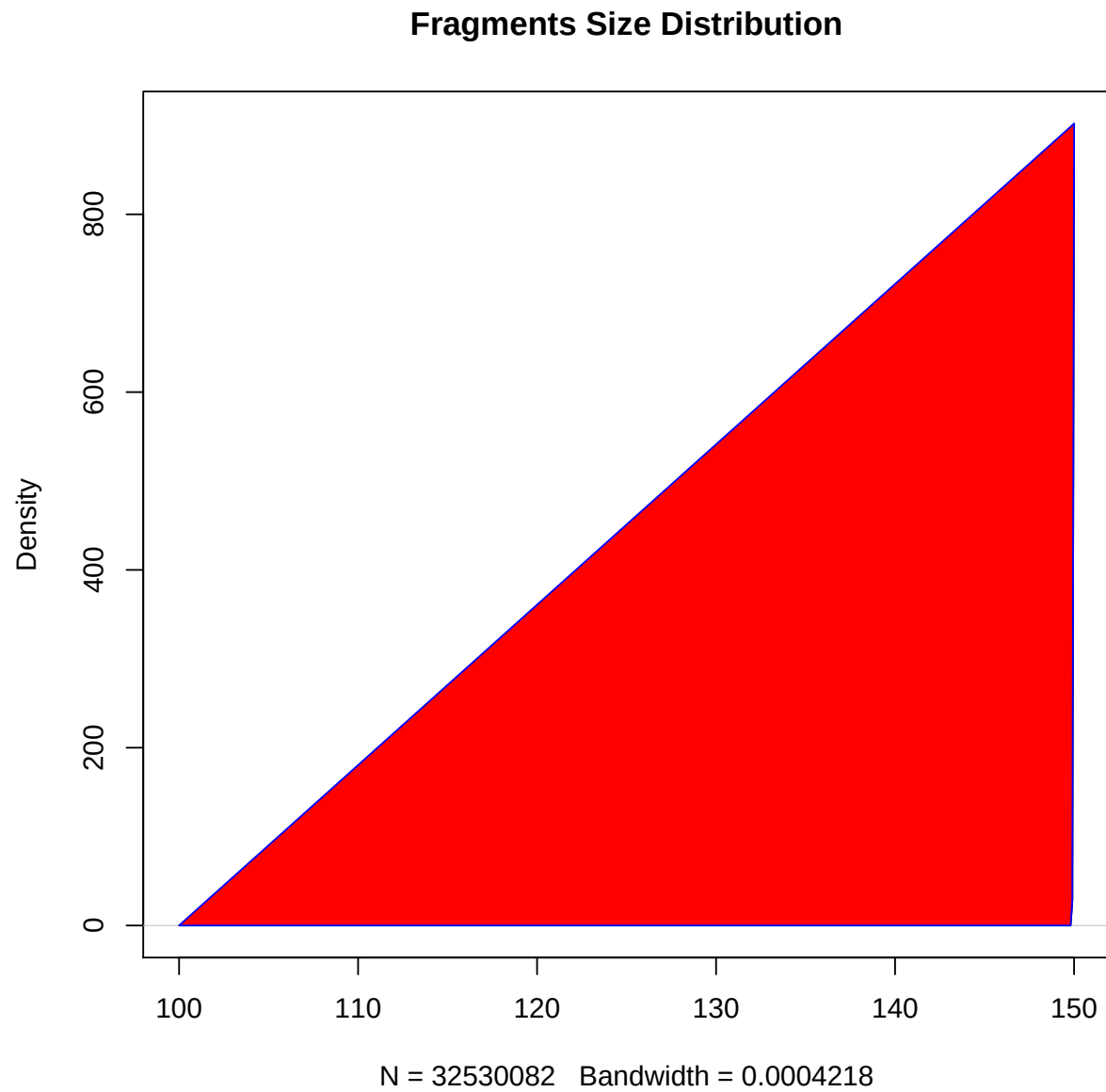
*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

total fragments	49600301
mapped fragments	44377061
uniquely mapped fragments	41226106
non-redundant uniquely mapped fragments	32530082

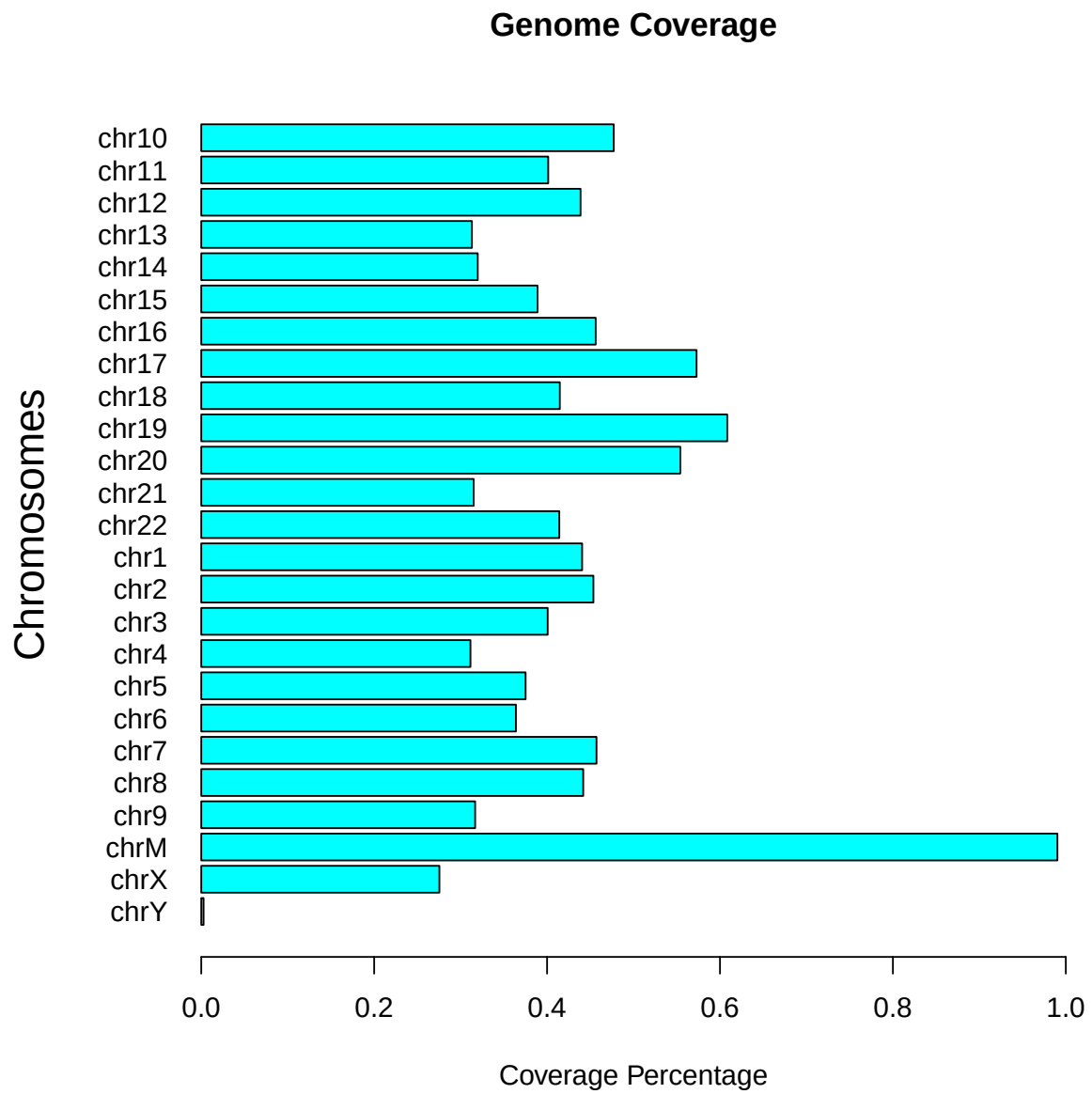


2 Fragments size distribution



3 Genomic coverage

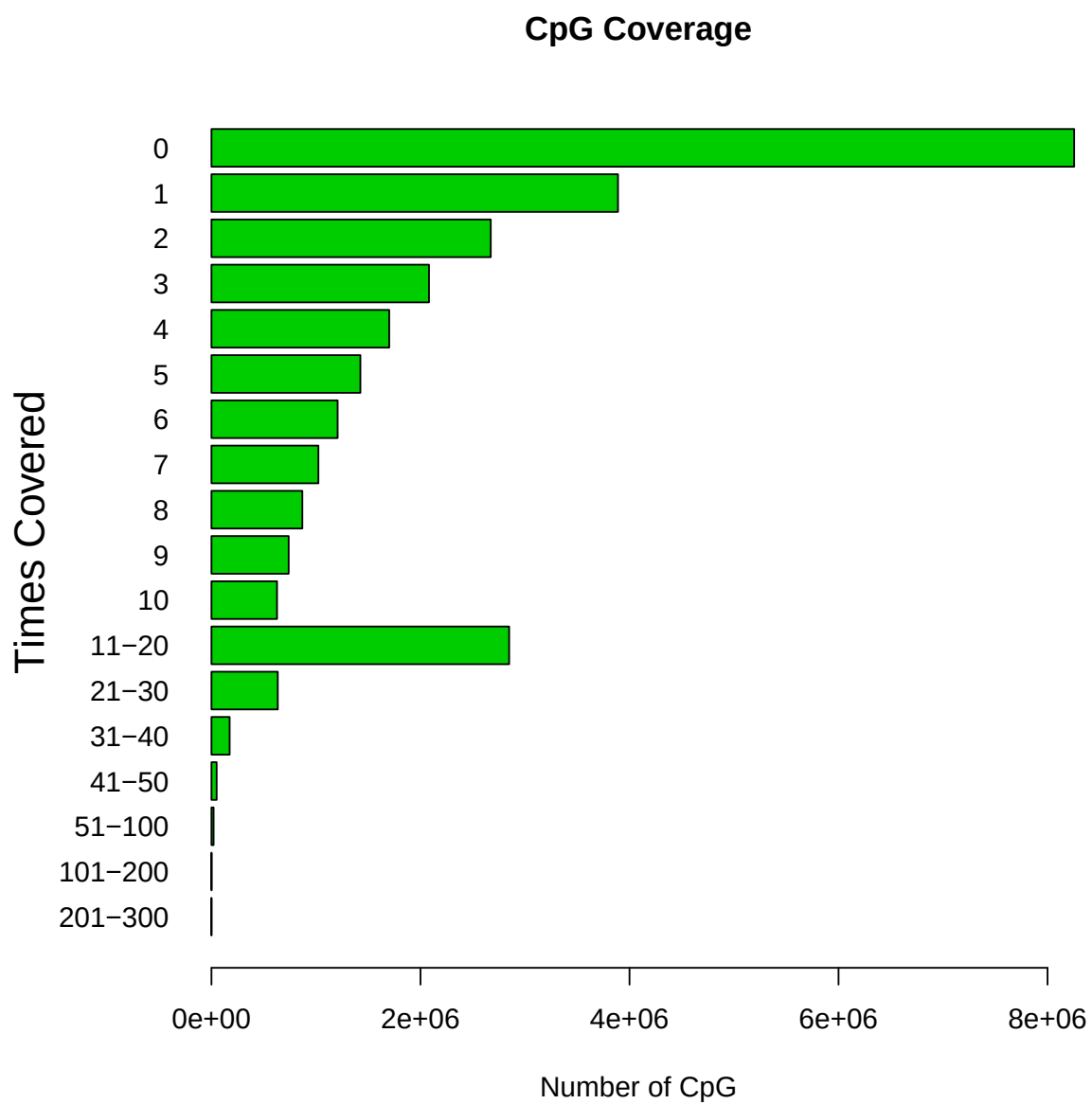
chromosome	total base	covered base	covered percentage
chr10	135534747	64668252	47.71%
chr11	135006516	54181979	40.13%
chr12	133851895	58720674	43.87%
chr13	115169878	36056165	31.31%
chr14	107349540	34328686	31.98%
chr15	102531392	39875711	38.89%
chr16	90354753	41221507	45.62%
chr17	81195210	46519035	57.29%
chr18	78077248	32380023	41.47%
chr19	59128983	35971442	60.84%
chr20	63025520	34920575	55.41%
chr21	48129895	15165140	31.51%
chr22	51304566	21247047	41.41%
chr1	249250621	109803937	44.05%
chr2	243199373	110314131	45.36%
chr3	198022430	79345474	40.07%
chr4	191154276	59517644	31.14%
chr5	180915260	67872092	37.52%
chr6	171115067	62272993	36.39%
chr7	159138663	72749586	45.71%
chr8	146364022	64666375	44.18%
chr9	141213431	44736985	31.68%
chrM	16571	16410	99.03%
chrX	155270560	42767723	27.54%
chrY	59373566	157429	0.27%
Whole Genome	3095693983	1229477015	39.72%



4 CpG status

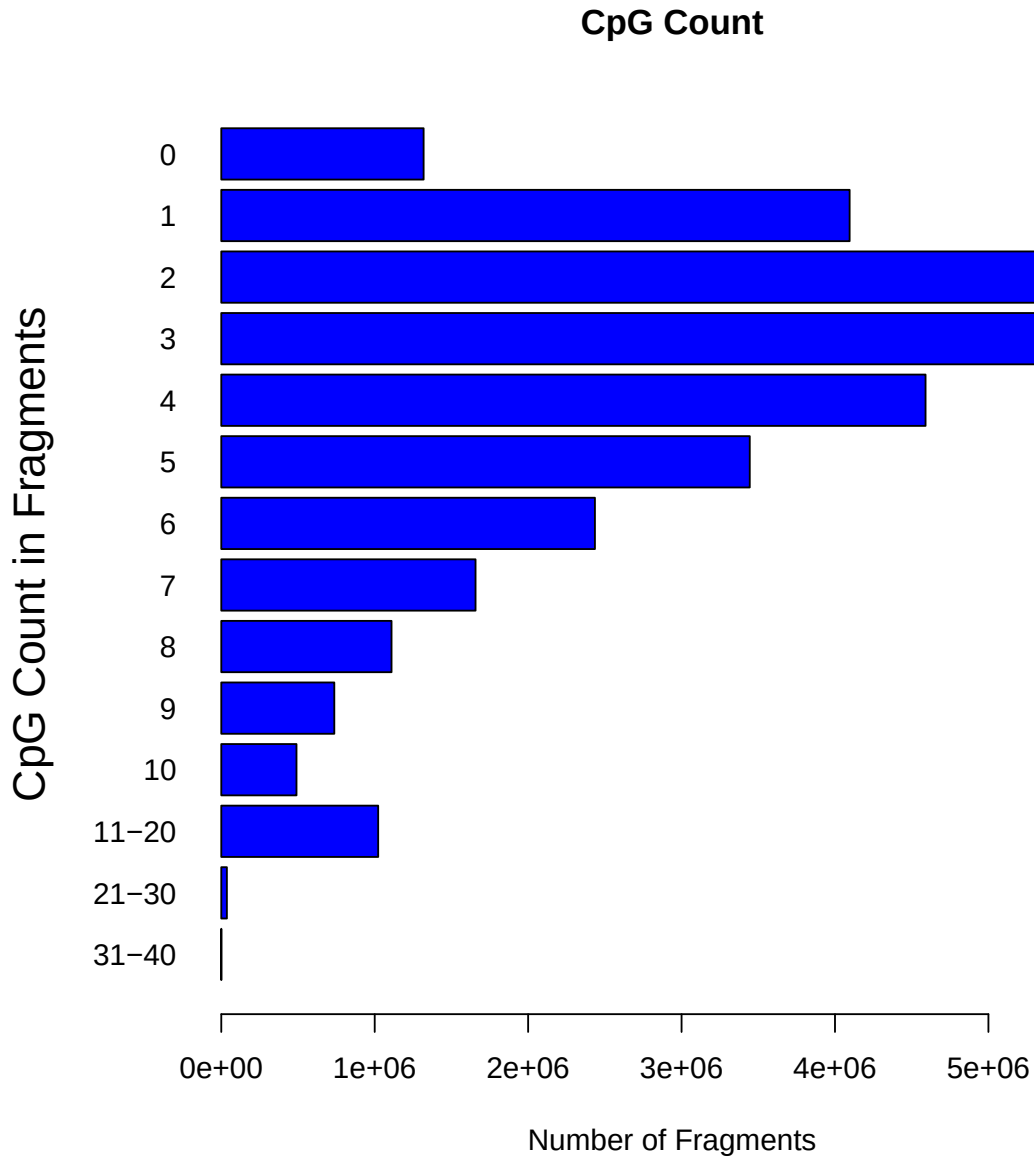
4.1 CpG coverage

Range	Count
0	8254376
1	3889737
2	2672279
3	2081319
4	1700814
5	1424988
6	1207263
7	1023123
8	869596
9	738648
10	627252
11-20	2848321
21-30	634339
31-40	173943
41-50	49611
51-100	20464
101-200	1166
201-300	209



4.2 CpG count

Range	Count
0	1318715
1	4095379
2	5936781
3	5656123
4	4590294
5	3444463
6	2435315
7	1657227
8	1109586
9	736575
10	490132
11-20	1022667
21-30	36532
31-40	293



5 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{129354973 / 4879512063}{28217448 / 3095693983}
 \end{aligned}$$

$$= 2.91$$