

# Report

	A_STAR	HipMer	marmgCAMI2	Megahit	metaSPAdes	Miniasm	OPERA_MS_inhouse	SPAdes
# contigs (>= 1000 bp)	10	9	1	14	11	3	4	4
# contigs (>= 5000 bp)	10	8	1	14	11	3	4	4
# contigs (>= 10000 bp)	6	8	1	13	11	3	4	4
# contigs (>= 25000 bp)	4	7	1	8	11	3	4	0
# contigs (>= 50000 bp)	4	5	1	6	7	3	4	0
Total length (>= 1000 bp)	315960	807750	4684311	1021397	894208	396596	371708	83540
Total length (>= 5000 bp)	315960	806333	4684311	1021397	894208	396596	371708	83540
Total length (>= 10000 bp)	292442	806333	4684311	1013935	894208	396596	371708	83540
Total length (>= 25000 bp)	271428	782639	4684311	926879	894208	396596	371708	0
Total length (>= 50000 bp)	271428	715096	4684311	834489	743381	396596	371708	0
# contigs	10	10	1	15	11	3	4	5
Largest contig	74413	333744	4684311	231064	132475	229334	201639	24754
Total length	315960	808566	4684311	1022080	894208	396596	371708	84053
Reference length	10146	10146	10146	10146	10146	10146	10146	10146
GC (%)	44.63	44.21	44.13	44.09	44.32	44.03	43.66	45.10
Reference GC (%)	49.62	49.62	49.62	49.62	49.62	49.62	49.62	49.62
N50	61301	139945	4684311	122131	124560	229334	201639	23209
NG50	74413	333744	4684311	231064	132475	229334	201639	24754
N75	61301	67441	4684311	76024	78851	111769	52360	19019
NG75	74413	333744	4684311	231064	132475	229334	201639	24754
L50	3	2	1	3	4	1	1	2
LG50	1	1	1	1	1	1	1	1
L75	4	4	1	5	6	2	3	3
LG75	1	1	1	1	1	1	1	1
# misassemblies	0	0	0	0	0	0	0	0
# misassembled contigs	0	0	0	0	0	0	0	0
Misassembled contigs length	0	0	0	0	0	0	0	0
# local misassemblies	0	0	0	0	0	0	0	0
# scaffold gap ext. mis.	0	0	0	0	0	0	0	0
# scaffold gap loc. mis.	0	0	0	0	0	0	0	0
# unaligned mis. contigs	2	2	1	2	3	1	1	0
# unaligned contigs	0 + 10 part	0 + 8 part	0 + 1 part	0 + 14 part	0 + 11 part	0 + 3 part	0 + 4 part	0 + 4 part
Unaligned length	306978	788696	4674165	996138	863775	392044	361753	73392
Genome fraction (%)	43.249	99.704	100.000	100.000	100.000	42.480	94.372	100.000
Duplication ratio	2.047	1.964	1.000	2.557	3.000	1.056	1.040	1.051
# N's per 100 kbp	65.20	6.18	0.00	0.00	11.18	0.00	0.00	0.00
# mismatches per 100 kbp	227.89	0.00	0.00	995.47	19.71	23.20	229.77	59.14
# indels per 100 kbp	0.00	9.89	0.00	108.42	29.57	0.00	0.00	19.71
Largest alignment	929	3088	4153	3614	4153	3148	3148	4155
Total aligned length	8776	19827	10146	25942	30433	4552	9957	10523
NGA50	739	2247	3148	3148	4152	-	2247	3148
NGA75	598	2168	2247	3148	4152	-	1086	2247
LGA50	6	2	2	2	2	-	2	2
LGA75	10	4	3	3	2	-	4	3

All statistics are based on contigs of size >= 500 bp, unless otherwise noted (e.g., "# contigs (>= 0 bp)" and "Total length (>= 0 bp)" include all contigs).

## Misassemblies report

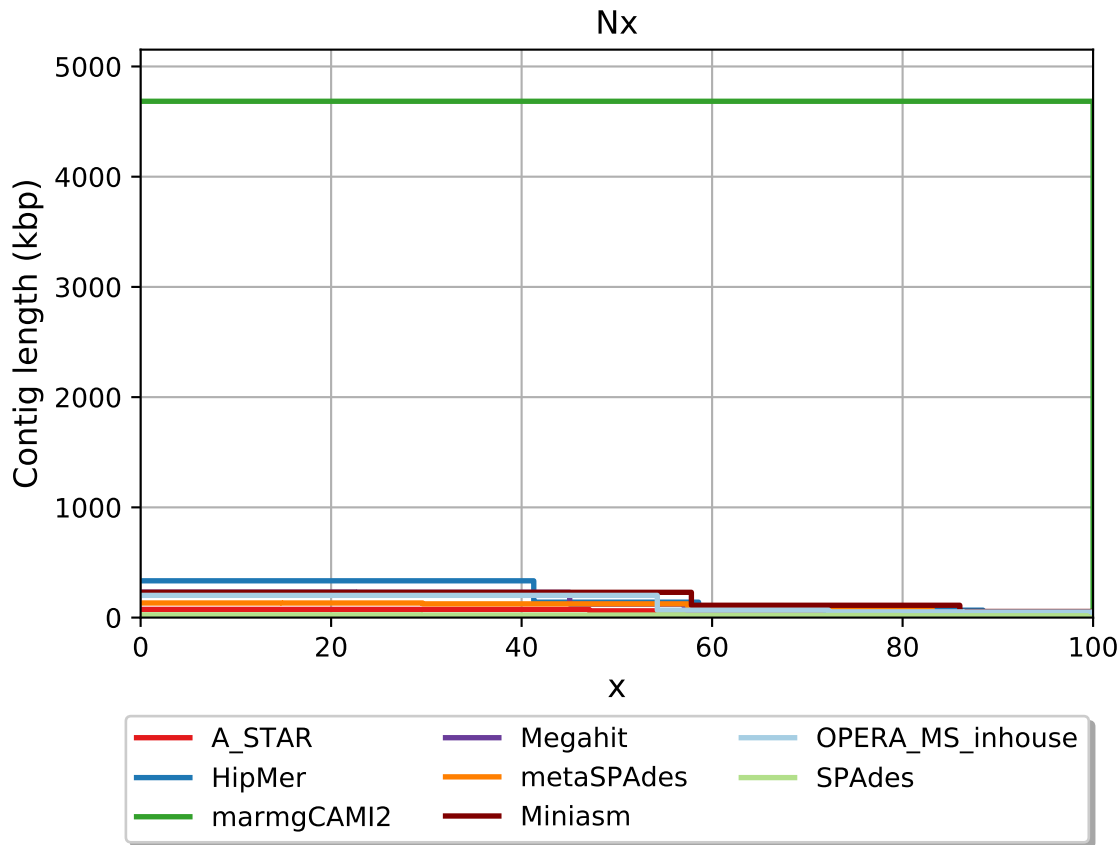
	A_STAR	HipMer	marmgCAMI2	Megahit	metaSPAdes	Miniasm	OPERA_MS_inhouse	SPAdes
# misassemblies	0	0	0	0	0	0	0	0
# contig misassemblies	0	0	0	0	0	0	0	0
# c. relocations	0	0	0	0	0	0	0	0
# c. translocations	0	0	0	0	0	0	0	0
# c. inversions	0	0	0	0	0	0	0	0
# scaffold misassemblies	0	0	0	0	0	0	0	0
# s. relocations	0	0	0	0	0	0	0	0
# s. translocations	0	0	0	0	0	0	0	0
# s. inversions	0	0	0	0	0	0	0	0
# misassembled contigs	0	0	0	0	0	0	0	0
Misassembled contigs length	0	0	0	0	0	0	0	0
# possibly misassembled contigs	8	6	0	12	8	2	3	4
# possible misassemblies	10	9	0	16	12	4	5	8
# local misassemblies	0	0	0	0	0	0	0	0
# scaffold gap ext. mis.	0	0	0	0	0	0	0	0
# scaffold gap loc. mis.	0	0	0	0	0	0	0	0
# unaligned mis. contigs	2	2	1	2	3	1	1	0
# mismatches	10	0	0	101	2	1	22	6
# indels	0	1	0	11	3	0	0	2
# indels (<= 5 bp)	0	0	0	9	1	0	0	2
# indels (> 5 bp)	0	1	0	2	2	0	0	0
Indels length	0	60	0	159	245	0	0	2

All statistics are based on contigs of size  $\geq 500$  bp, unless otherwise noted (e.g., "# contigs ( $\geq 0$  bp)" and "Total length ( $\geq 0$  bp)" include all contigs).

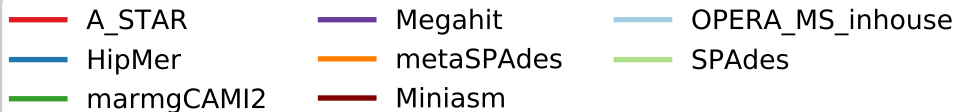
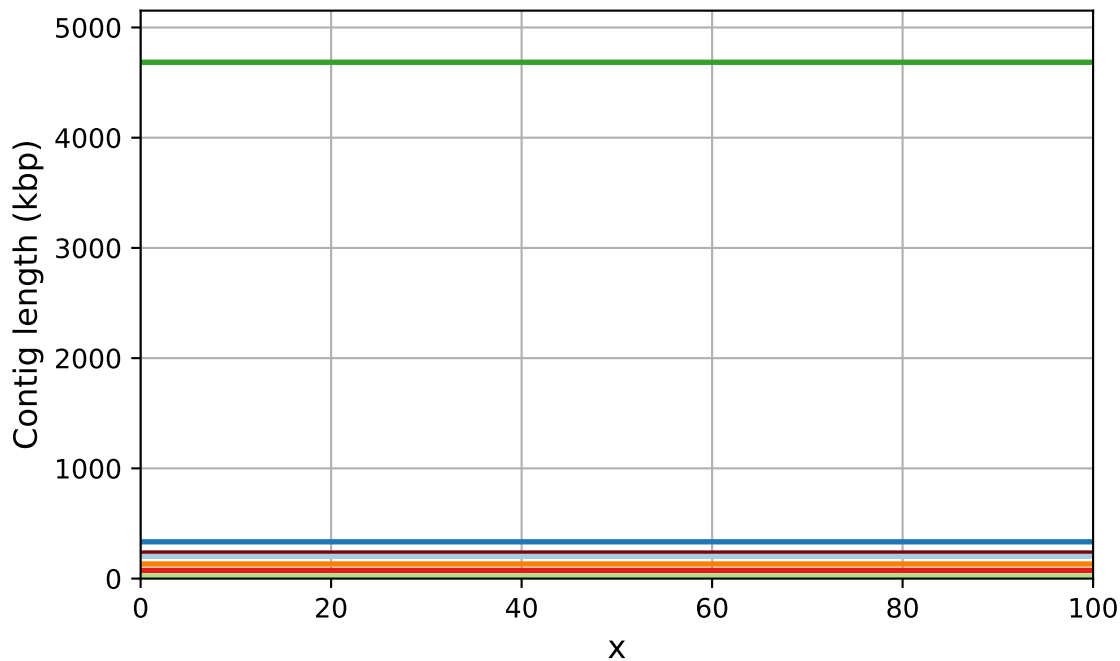
## Unaligned report

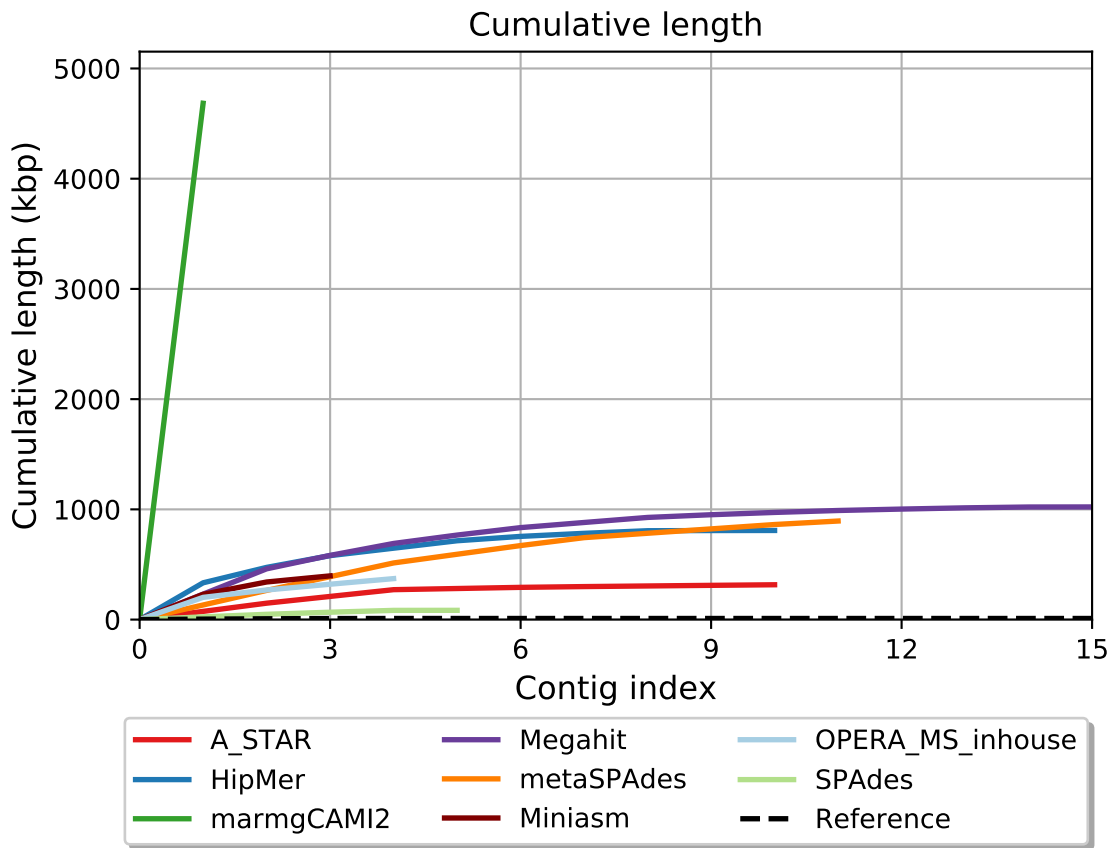
	A_STAR	HipMer	marmgCAMI2	Megahit	metaSPAdes	Miniasm	OPERA_MS_inhouse	SPAdes
# fully unaligned contigs	0	0	0	0	0	0	0	0
Fully unaligned length	0	0	0	0	0	0	0	0
# partially unaligned contigs	10	8	1	14	11	3	4	4
Partially unaligned length	306978	788696	4674165	996138	863775	392044	361753	73392
# N's	206	50	0	0	100	0	0	0

All statistics are based on contigs of size  $\geq 500$  bp, unless otherwise noted (e.g., "# contigs ( $\geq 0$  bp)" and "Total length ( $\geq 0$  bp)" include all contigs).

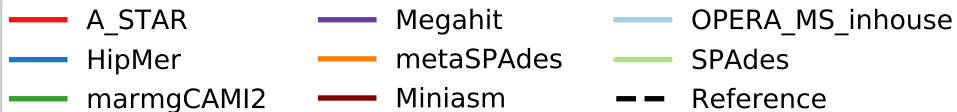
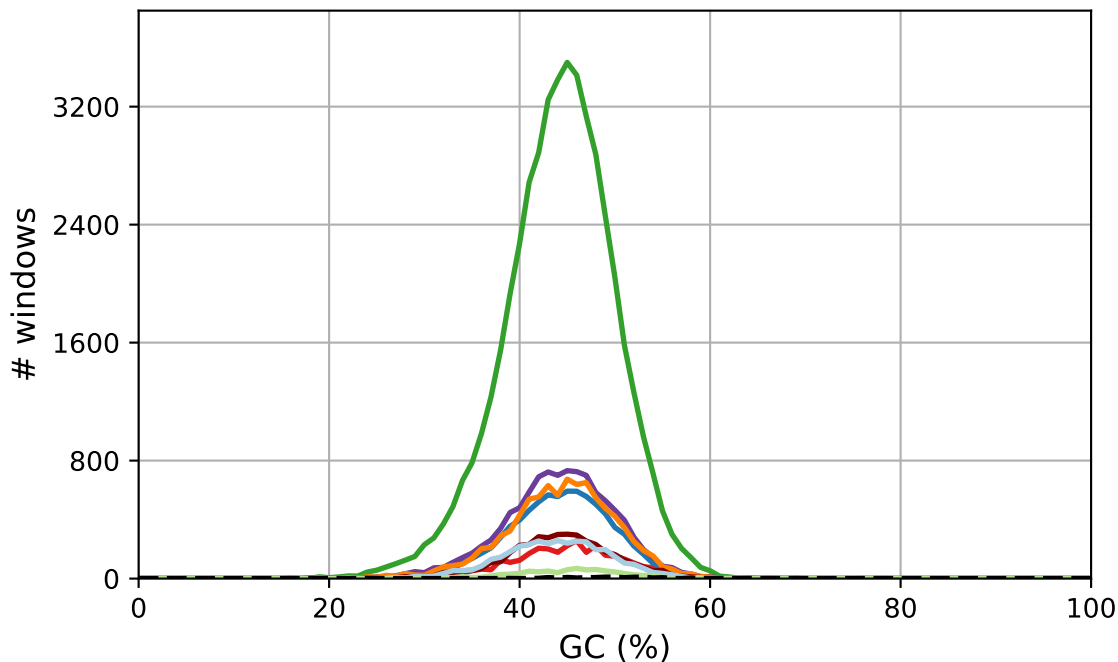


## NGx

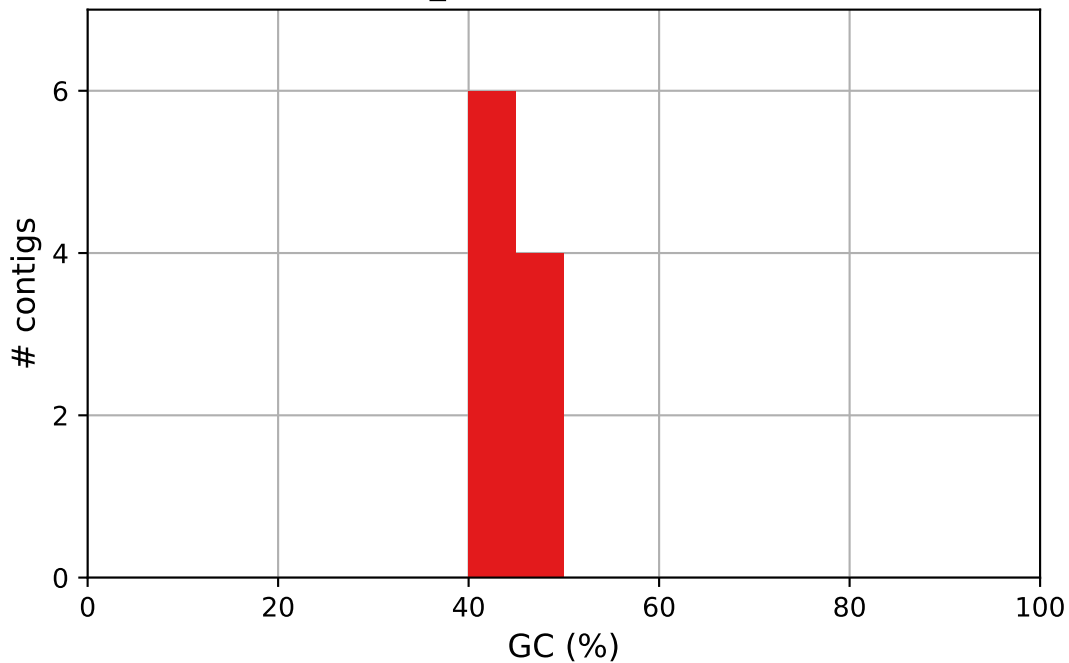




## GC content



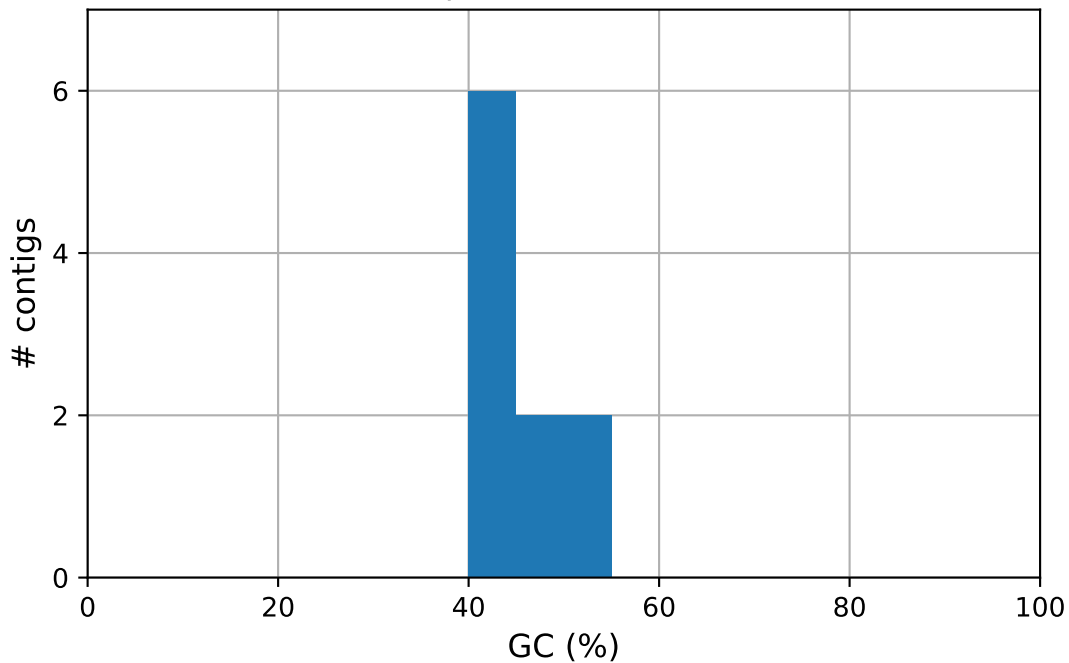
A\_STAR GC content



A\_STAR

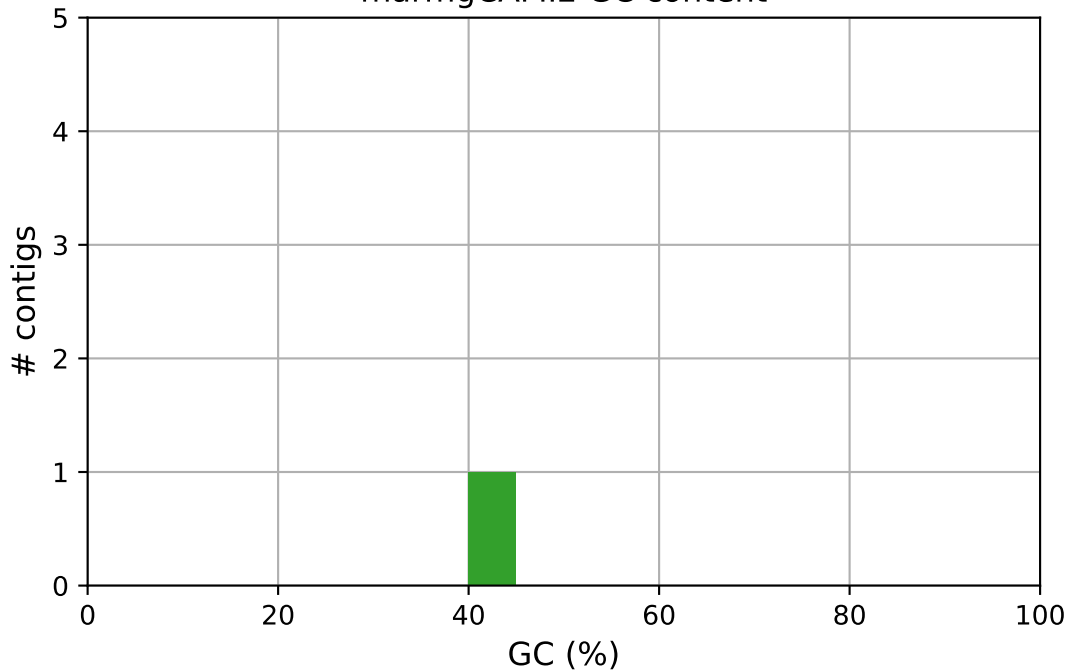


# HipMer GC content



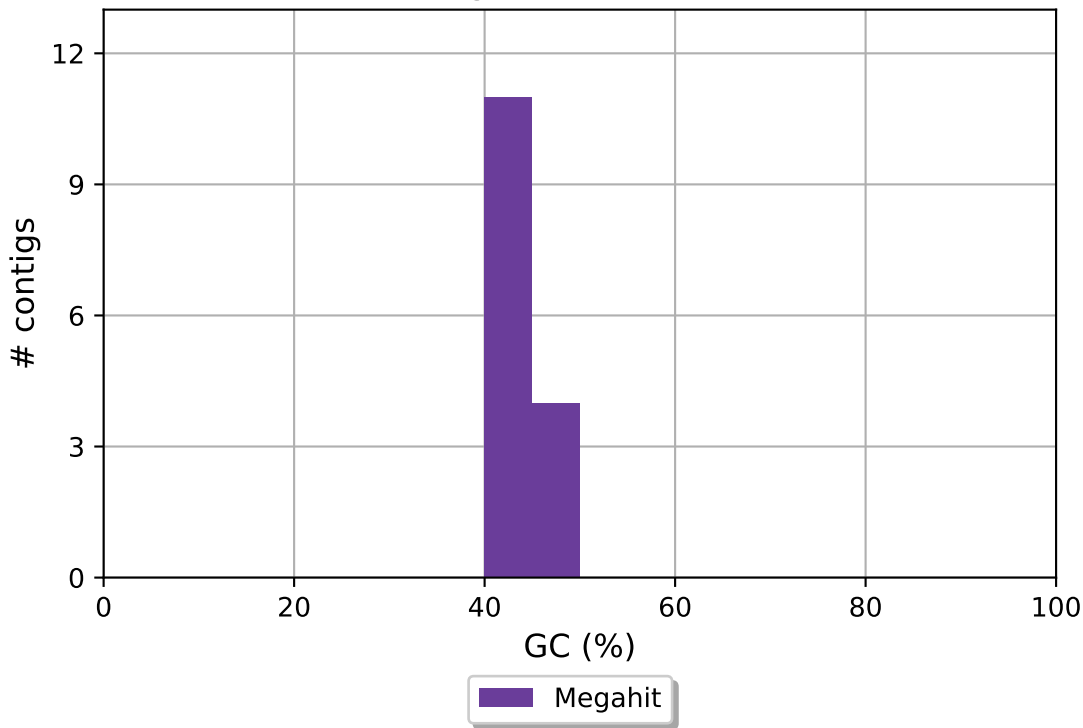
HipMer

marmgCAMI2 GC content

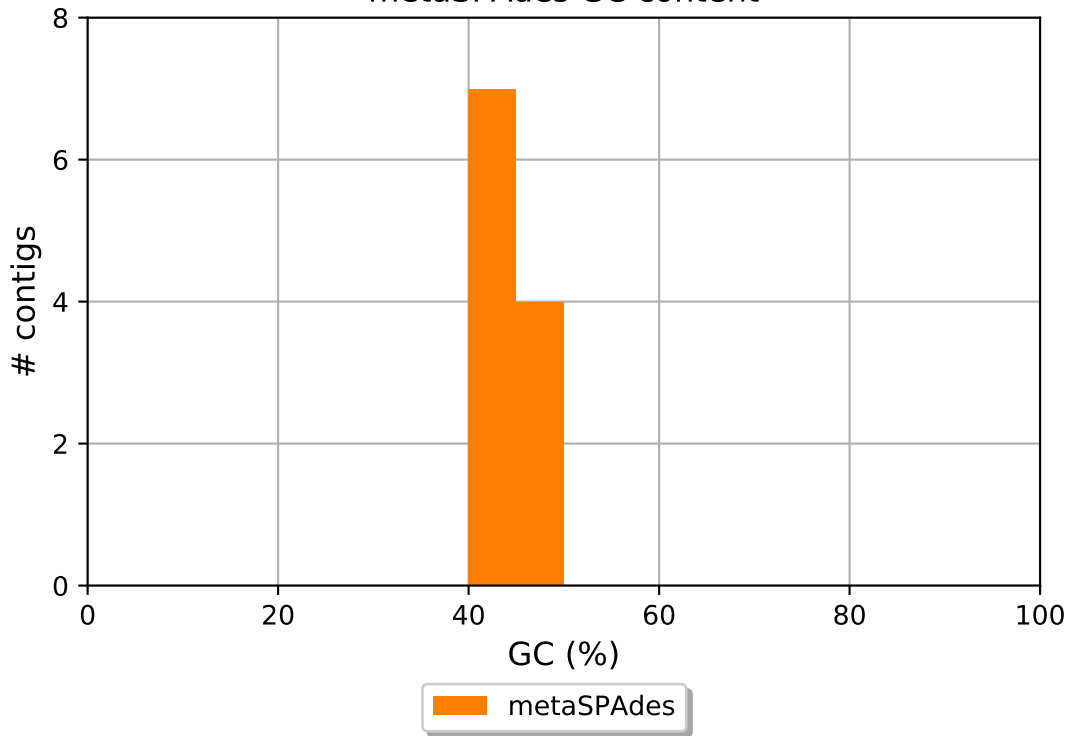


marmgCAMI2

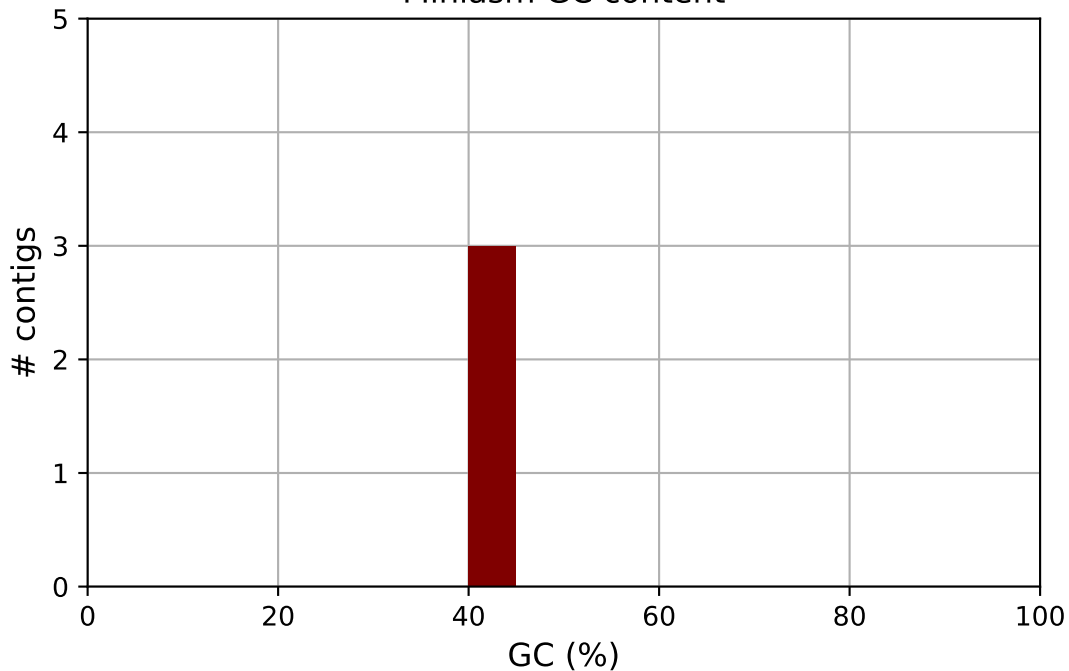
Megahit GC content



metaSPAdes GC content

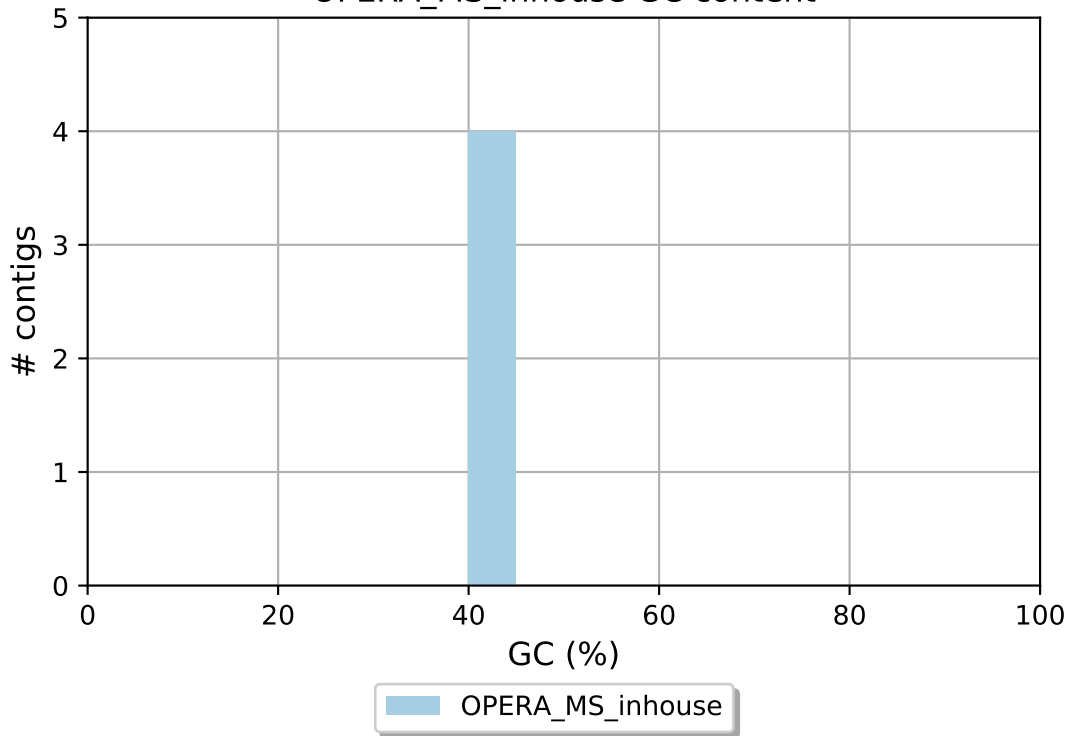


# Miniasm GC content

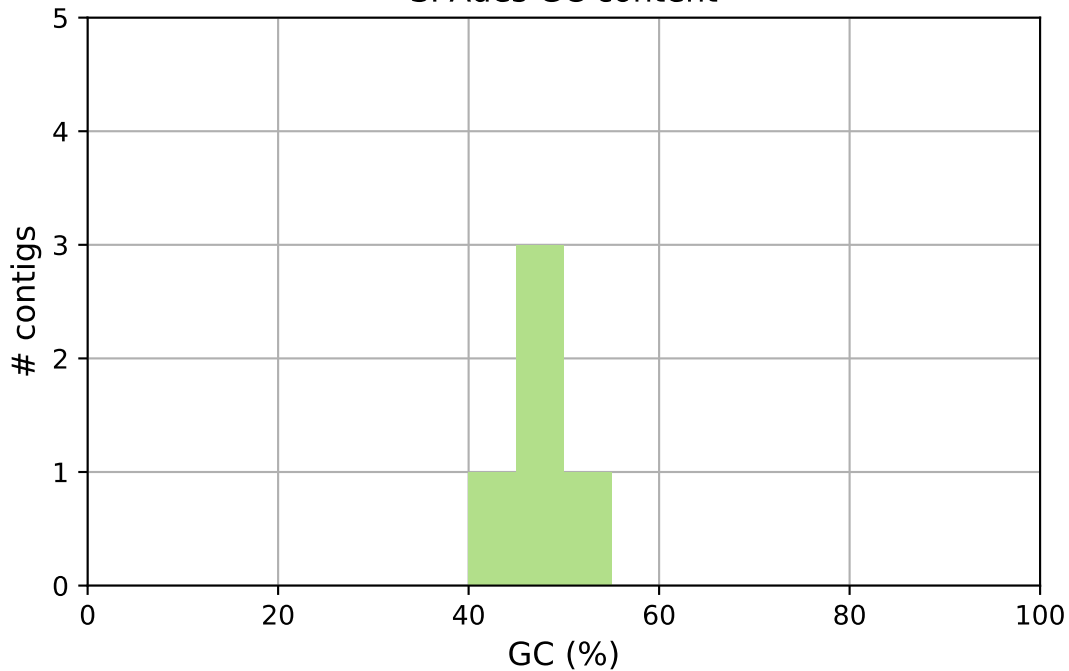


Miniasm

OPERA\_MS\_inhouse GC content

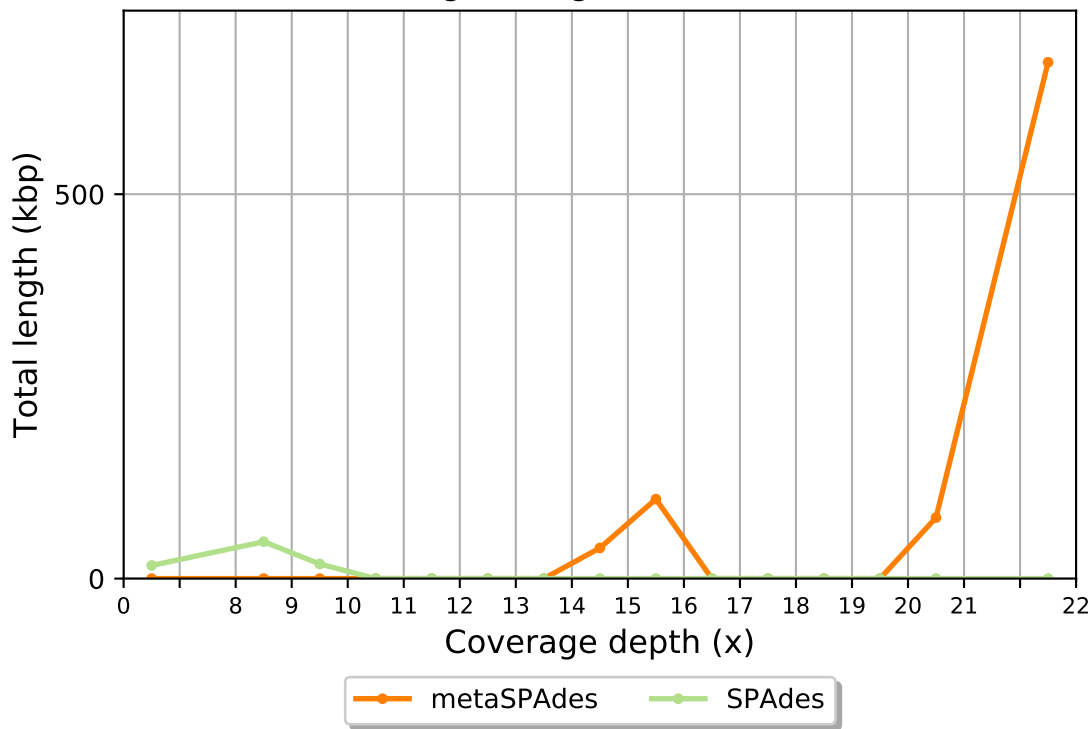


SPAdes GC content



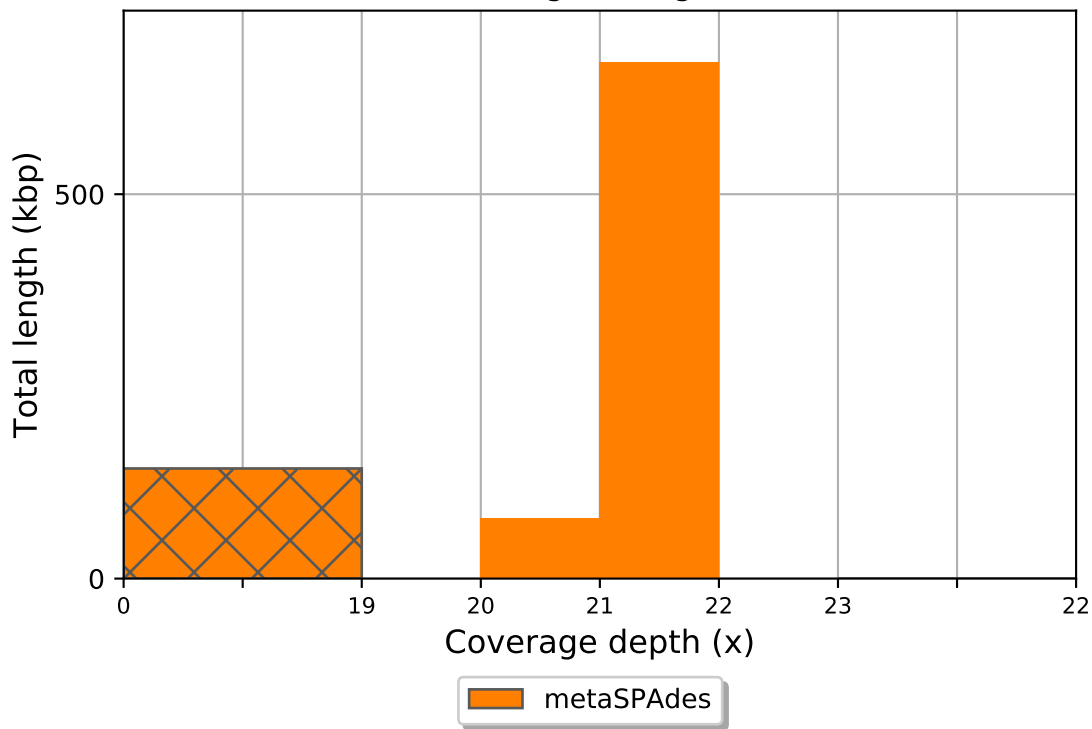
SPAdes

Coverage histogram (bin size: 1x)

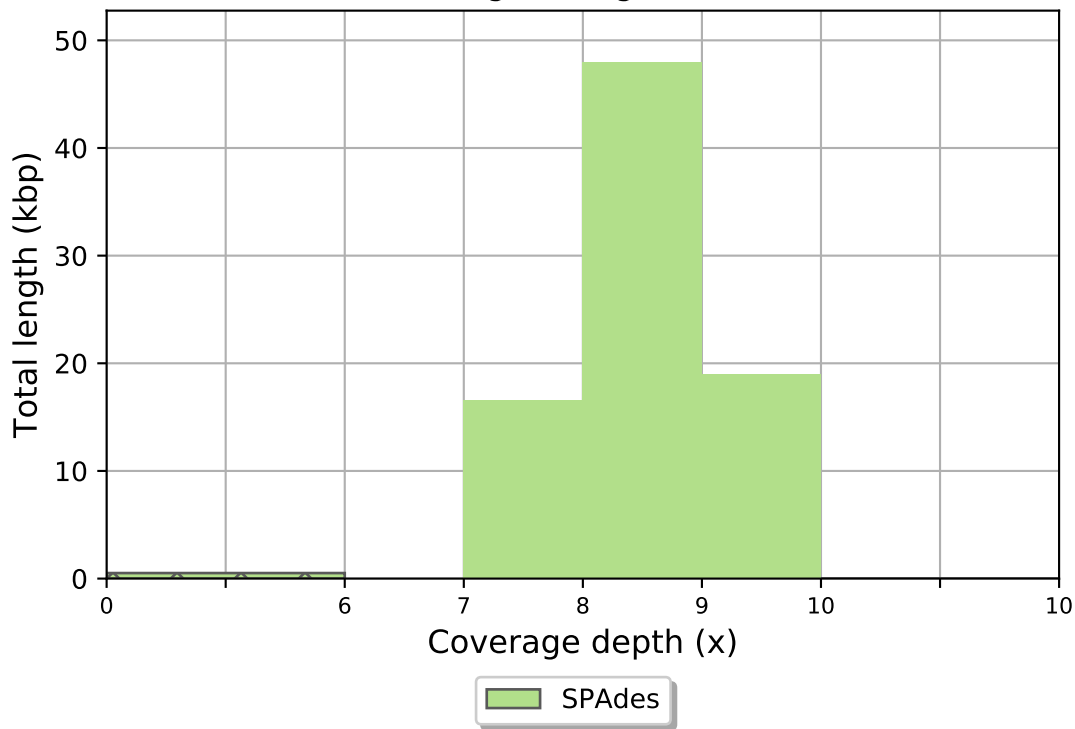




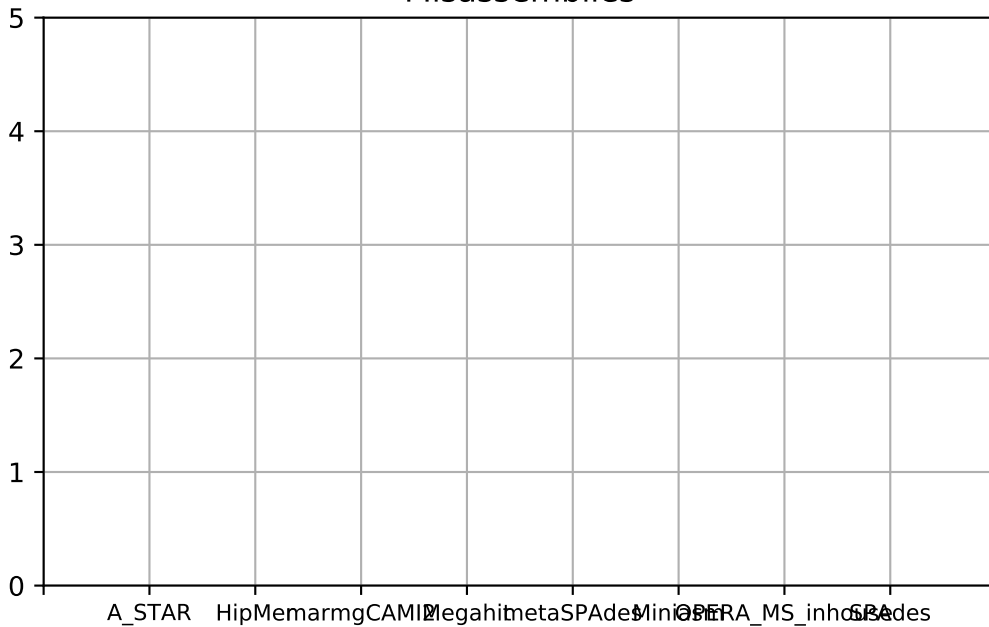
metaSPAdes coverage histogram (bin size: 1x)



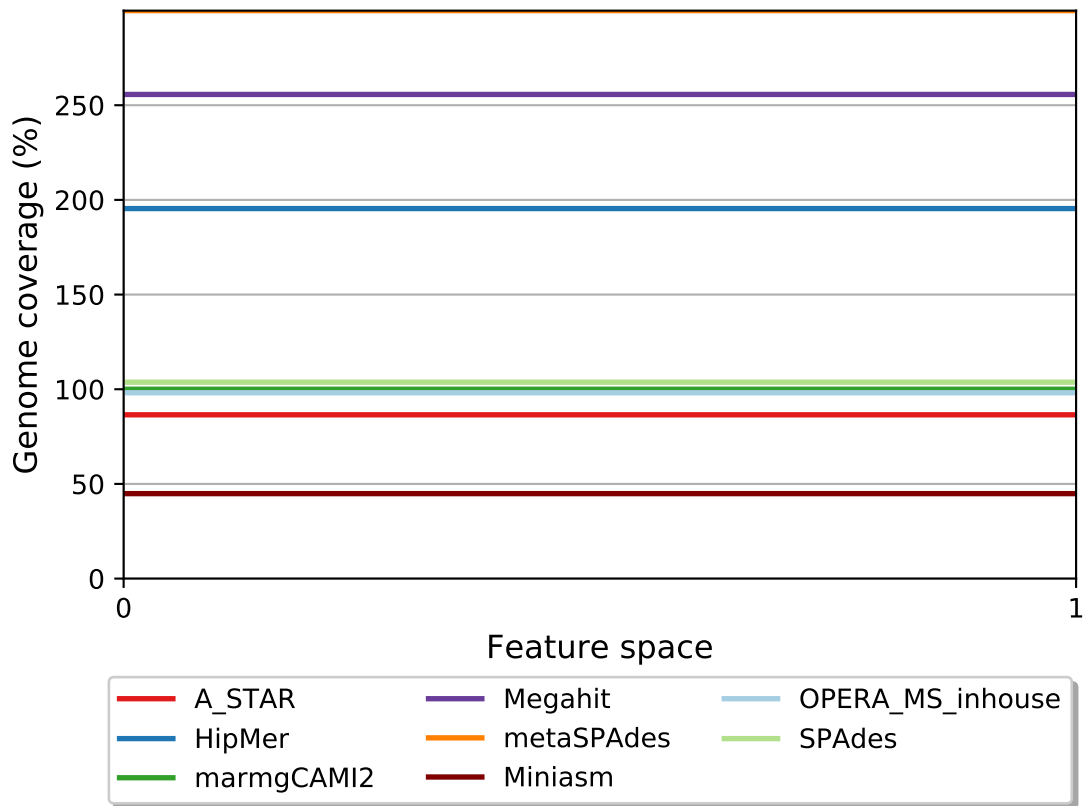
SPAdes coverage histogram (bin size: 1x)



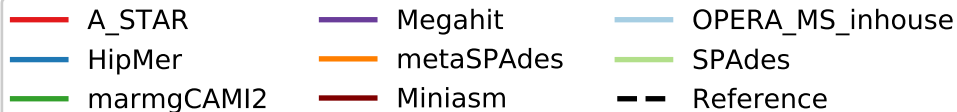
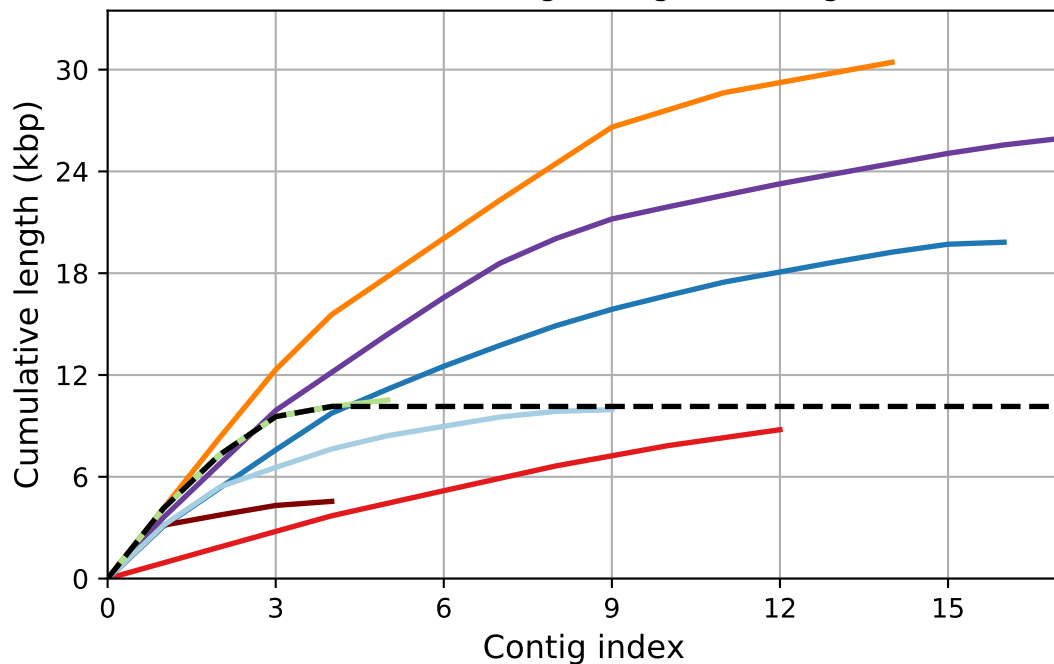
## Misassemblies



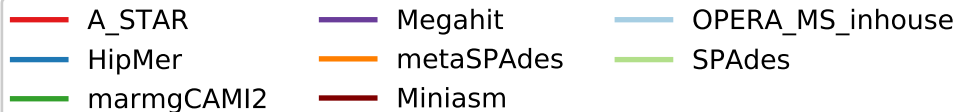
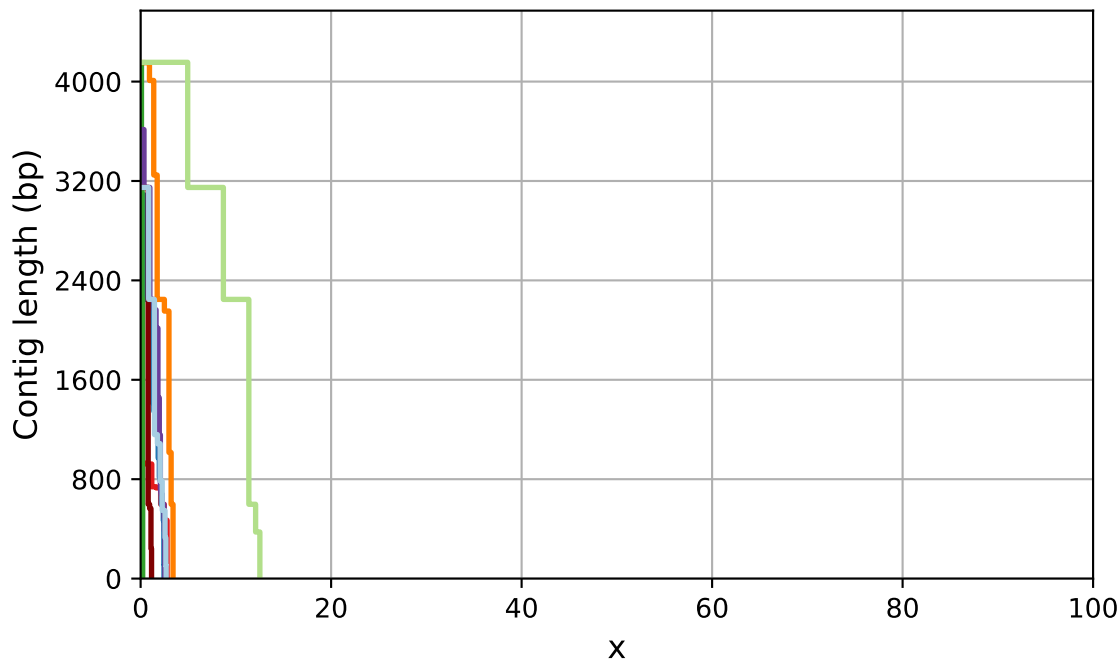
# FRCurve (misassemblies)



Cumulative length (aligned contigs)



# NAx



# NGAx

