

Report

	ABYSS	A_STAR	Flye	HipMer	marmgCAMI2	Megahit	metaSPAdes	Miniasm	OPERA_MS_inhouse	SPAdes
# contigs (>= 0 bp)	9812	114145	95	34616	60	40251	45360	10247	5512	43524
# contigs (>= 1000 bp)	1924	51827	89	27220	51	33442	37765	9395	4183	28032
# contigs (>= 5000 bp)	765	12879	87	9370	50	15692	16159	7272	3134	5321
# contigs (>= 10000 bp)	421	6961	87	5174	50	9665	9398	5233	2527	1896
# contigs (>= 25000 bp)	148	2876	28	2262	50	4555	4018	2508	1533	474
# contigs (>= 50000 bp)	53	1363	15	1165	50	2230	1868	1299	826	193
Total length (>= 0 bp)	23173213	427745115	2582492	334616321	171145864	514455649	501144934	277269920	164865904	161475633
Total length (>= 1000 bp)	18024727	384730960	2578602	329209239	171140007	509527572	495598671	276663036	163976134	150696822
Total length (>= 5000 bp)	15146910	305228038	2576177	287089759	171138620	465692801	442444940	271260733	161391217	100181788
Total length (>= 10000 bp)	12728825	263859272	2576177	257767155	171138620	423156730	394546553	255806096	156986459	76916464
Total length (>= 25000 bp)	8566104	200893088	1567210	213020733	171138620	343131391	310512693	212838046	140807343	56192170
Total length (>= 50000 bp)	5174466	148685790	1172418	174614106	171138620	260797717	235173771	170488532	115453387	46445052
# contigs	9897	114338	189	34639	60	40310	45374	10488	5514	43527
Largest contig	311947	1928926	124885	1524395	7215228	1396623	1667163	2428999	1165491	1902115
Total length	25081674	429042430	5148066	336527542	171145864	523745684	501240066	305654709	164912279	161490540
Reference length	141115	141115	141115	141115	141115	141115	141115	141115	141115	141115
N50	15463	20878	32688	57833	4134217	53087	43277	85015	103185	8743
N75	2252	3780	18886	11692	3052329	16360	12609	30050	41436	2873
L50	272	3455	37	1020	18	2115	2199	737	364	2308
L75	1326	16481	90	4514	29	6604	7736	2267	1006	10900
# misassemblies	0	4	0	0	0	5	0	0	0	0
# misassembled contigs	0	4	0	0	0	5	0	0	0	0
Misassembled contigs length	0	5770	0	0	0	6292	0	0	0	0
# local misassemblies	0	5	0	0	0	8	2	0	2	2
# scaffold gap ext. mis.	0	0	0	0	0	0	0	0	0	0
# scaffold gap loc. mis.	0	1	0	0	0	0	0	0	0	0
# unaligned mis. contigs	0	53	0	22	20	38	26	18	19	14
# unaligned contigs	9875 + 7 part	114098 + 196 part	185 + 4 part	34431 + 177 part	30 + 30 part	39952 + 283 part	45135 + 223 part	10407 + 79 part	5440 + 68 part	43435 + 79 part
Unaligned length	25024933	420705340	5136898	336196278	171004225	523391433	500819588	305515569	164782801	161263897
Genome fraction (%)	11.757	55.947	3.955	95.209	99.228	98.223	97.075	76.046	89.523	92.454
Duplication ratio	3.420	105.600	2.001	2.466	1.012	2.556	3.069	1.297	1.025	1.737
# N's per 100 kbp	124.19	1897.89	0.00	18.23	0.00	0.00	2.04	2.42	0.34	56.58
# mismatches per 100 kbp	0.00	668.78	0.00	61.78	48.56	1347.69	173.74	123.94	338.80	229.18
# indels per 100 kbp	6.03	43.07	107.51	13.40	0.71	44.73	5.11	233.90	154.36	29.13
Largest alignment	3437	3303	3184	6290	10622	6797	10622	9260	6734	9938
Total aligned length	24009	187378	11168	266978	143533	349491	408250	131717	131217	134153

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

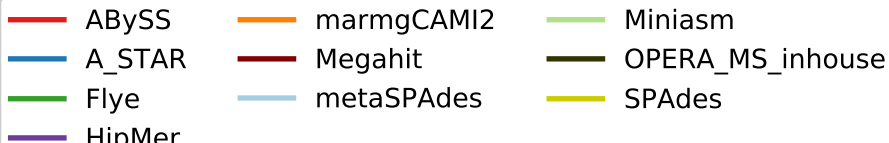
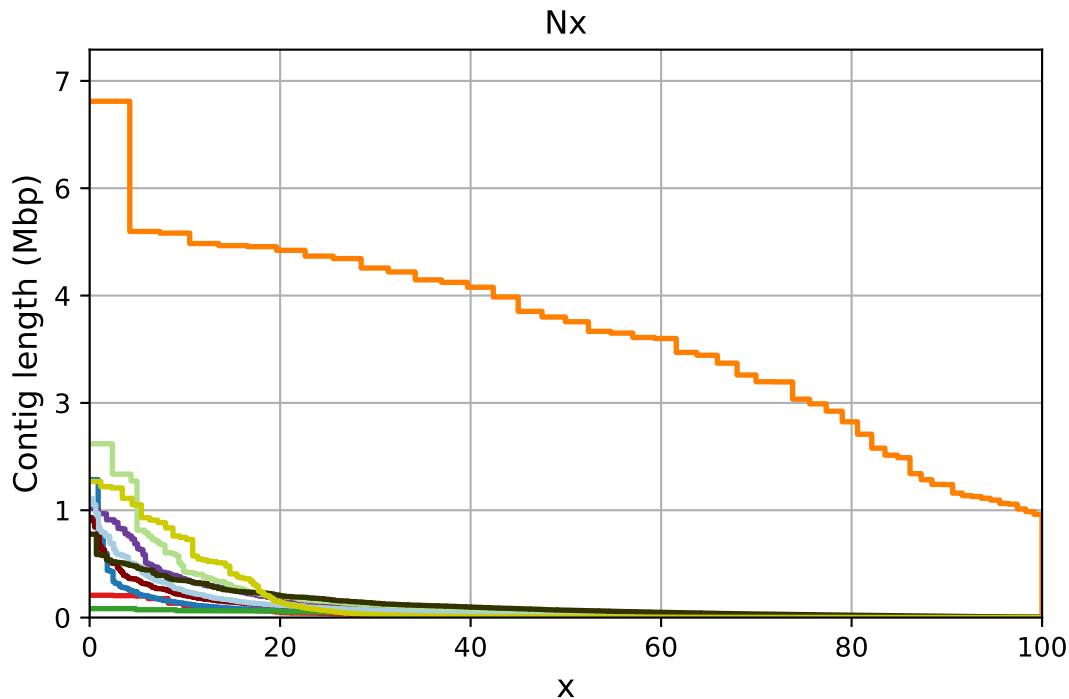
	ABYSS	A_STAR	Flye	HipMer	marmgCAMI2	Megahit	metaSPAdes	Miniasm	OPERA_MS_inhouse	SPAdes
# misassemblies	0	4	0	0	0	5	0	0	0	0
# contig misassemblies	0	4	0	0	0	5	0	0	0	0
# c. relocations	0	2	0	0	0	4	0	0	0	0
# c. translocations	0	2	0	0	0	0	0	0	0	0
# c. inversions	0	0	0	0	0	1	0	0	0	0
# c. interspecies translocations	0	0	0	0	0	0	0	0	0	0
# scaffold misassemblies	0	0	0	0	0	0	0	0	0	0
# s. relocations	0	0	0	0	0	0	0	0	0	0
# s. translocations	0	0	0	0	0	0	0	0	0	0
# s. inversions	0	0	0	0	0	0	0	0	0	0
# s. interspecies translocations	0	0	0	0	0	0	0	0	0	0
# misassembled contigs	0	4	0	0	0	5	0	0	0	0
Misassembled contigs length	0	5770	0	0	0	6292	0	0	0	0
# possibly misassembled contigs	7	143	4	155	10	245	197	61	49	65
# possible misassemblies	14	184	6	204	20	315	304	96	80	87
# local misassemblies	0	5	0	0	0	8	2	0	2	2
# scaffold gap ext. mis.	0	0	0	0	0	0	0	0	0	0
# scaffold gap loc. mis.	0	1	0	0	0	0	0	0	0	0
# unaligned mis. contigs	0	53	0	22	20	38	26	18	19	14
# mismatches	0	528	0	83	68	1868	238	133	428	299
# indels	1	34	6	18	1	62	7	251	195	38
# indels (<= 5 bp)	0	17	6	4	0	39	2	237	181	35
# indels (> 5 bp)	1	17	0	14	1	23	5	14	14	3
Indels length	7	1218	6	669	24	1924	353	513	1068	86

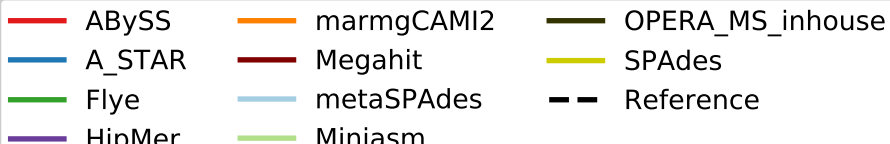
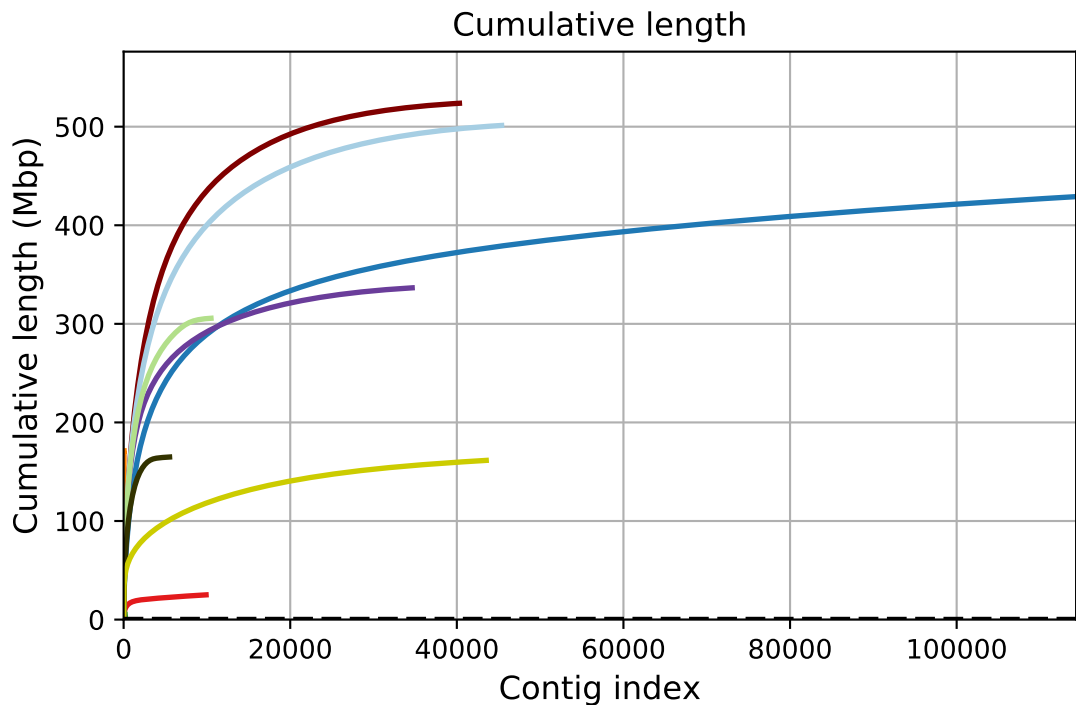
All statistics are based on contigs of size ≥ 500 bp, unless otherwise noted (e.g., "# contigs (≥ 0 bp)" and "Total length (≥ 0 bp)" include all contigs).

Unaligned report

	ABYSS	A_STAR	Flye	HipMer	marmgCAMI2	Megahit	metaSPAdes	Miniasm	OPERA_MS_inhouse	SPAdes
# fully unaligned contigs	9875	114098	185	34431	30	39952	45135	10407	5440	43435
Fully unaligned length	24530006	410718192	5061630	318587212	55254749	504988929	476225257	290246304	154665096	150637434
# partially unaligned contigs	7	196	4	177	30	283	223	79	68	79
Partially unaligned length	494927	9987148	75268	17609066	115749476	18402504	24594331	15269265	10117705	10626463
# N's	31150	8142753	0	61352	4	0	10204	7385	557	91369

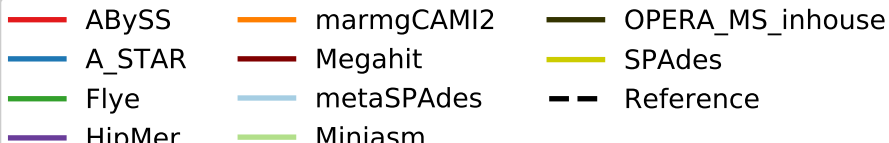
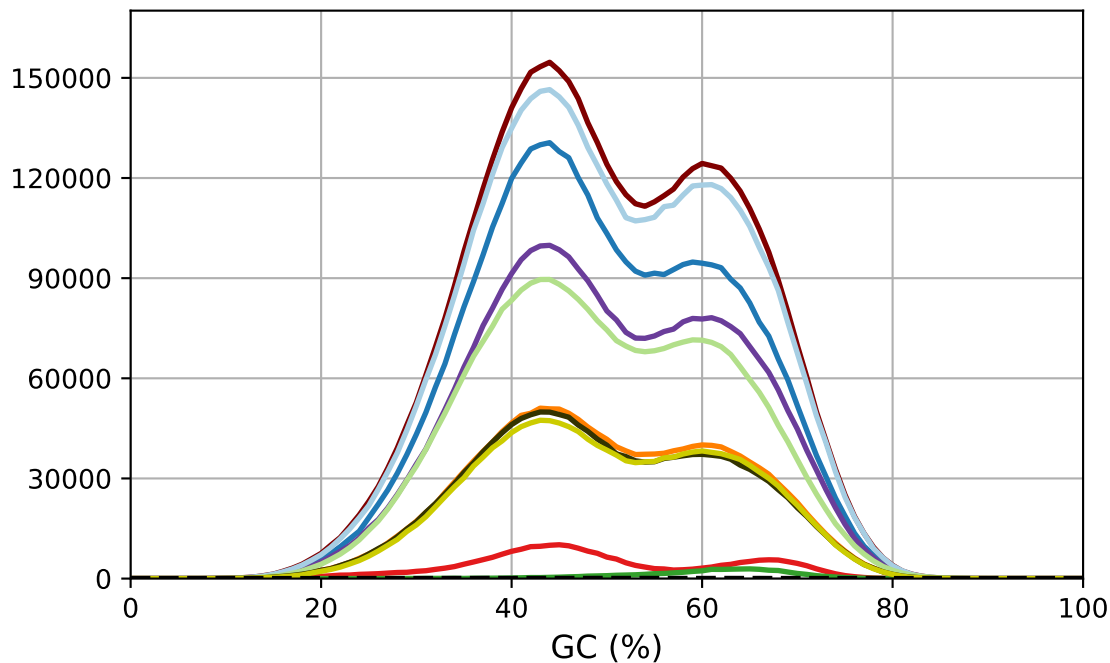
All statistics are based on contigs of size ≥ 500 bp, unless otherwise noted (e.g., "# contigs (≥ 0 bp)" and "Total length (≥ 0 bp)" include all contigs).



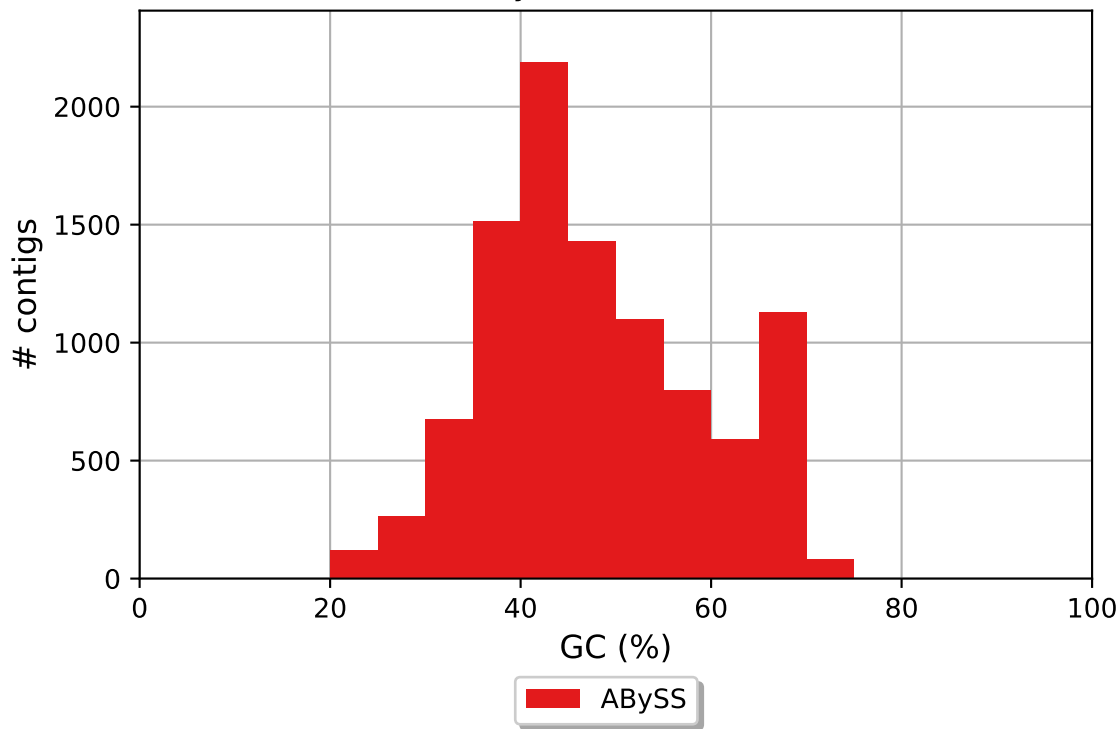


windows

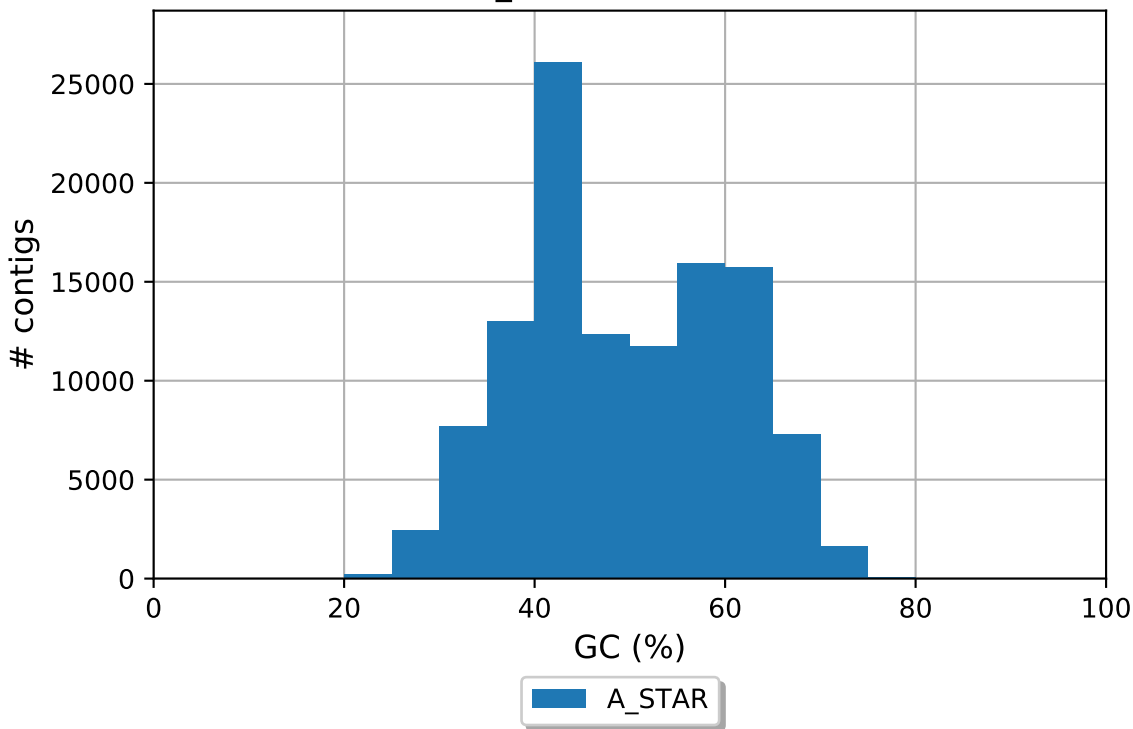
GC content



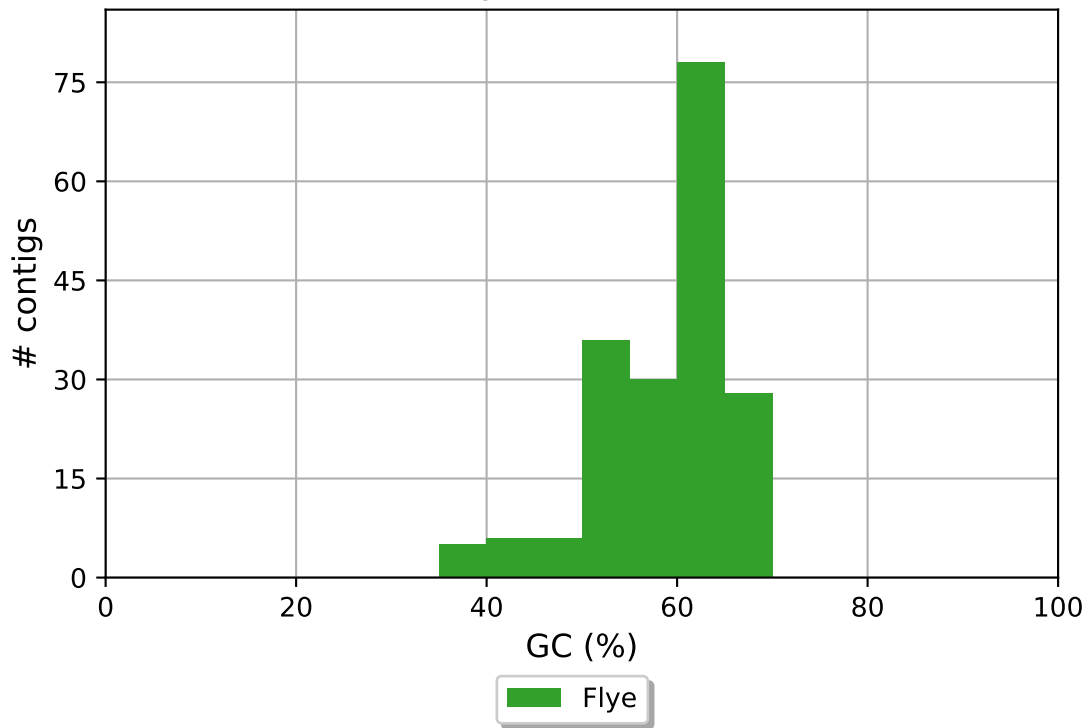
ABySS GC content



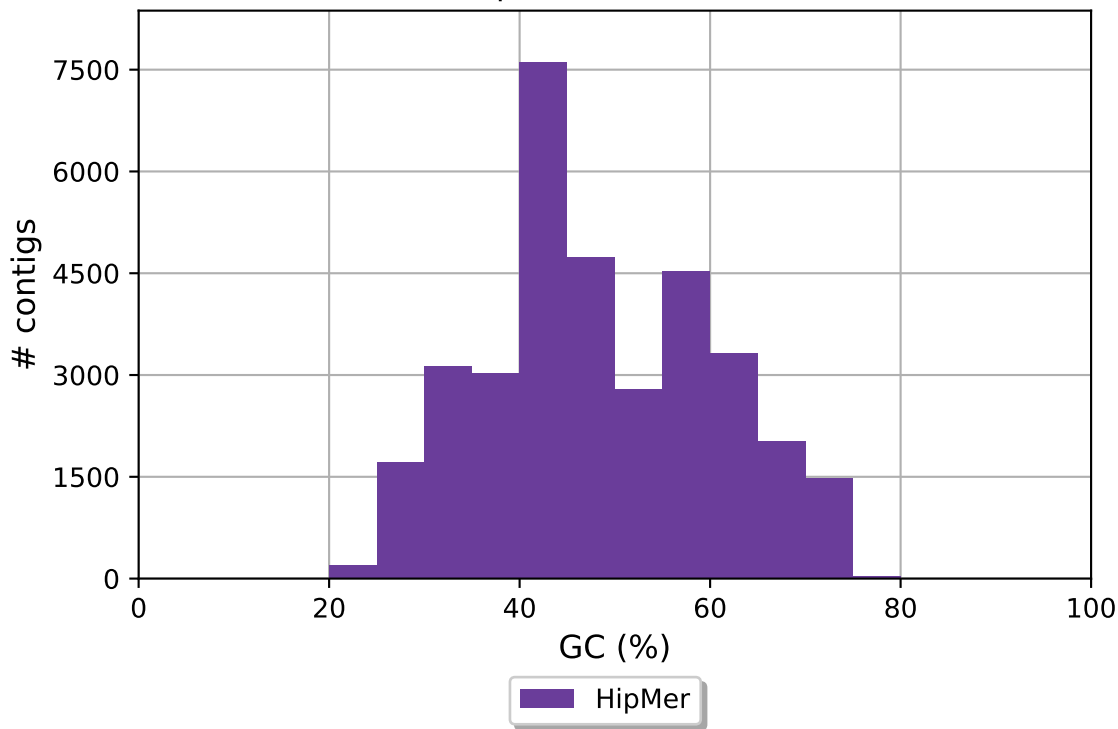
A_STAR GC content



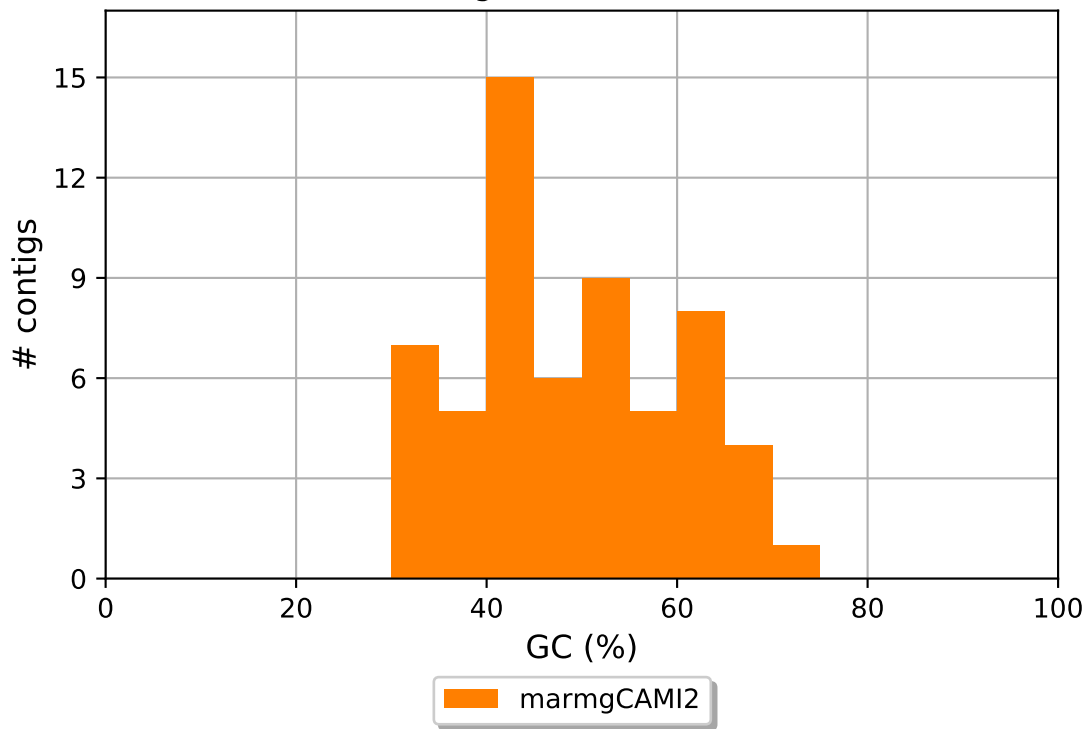
Flye GC content



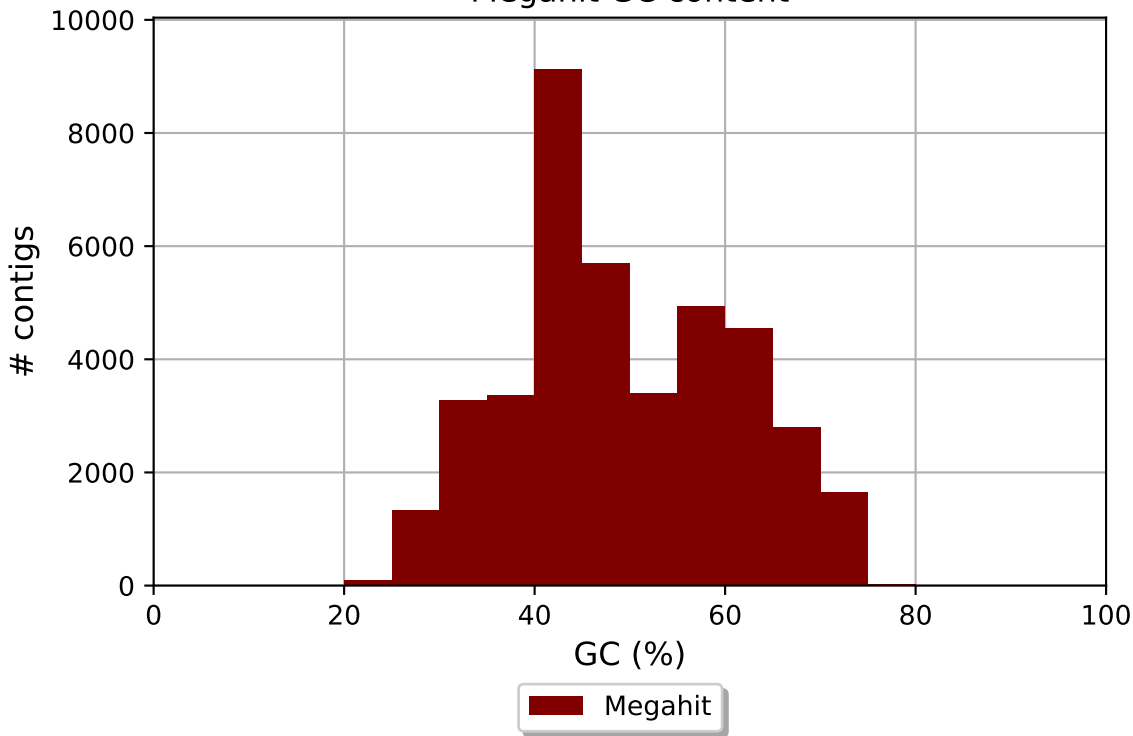
HipMer GC content



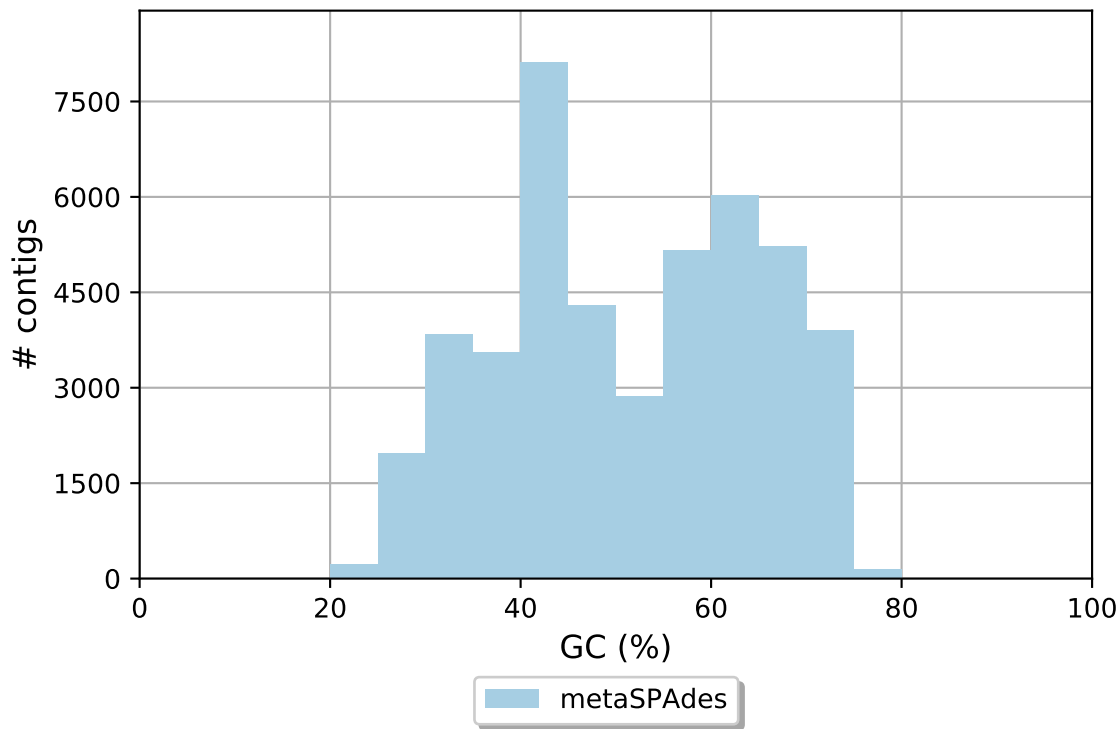
marmgCAMI2 GC content



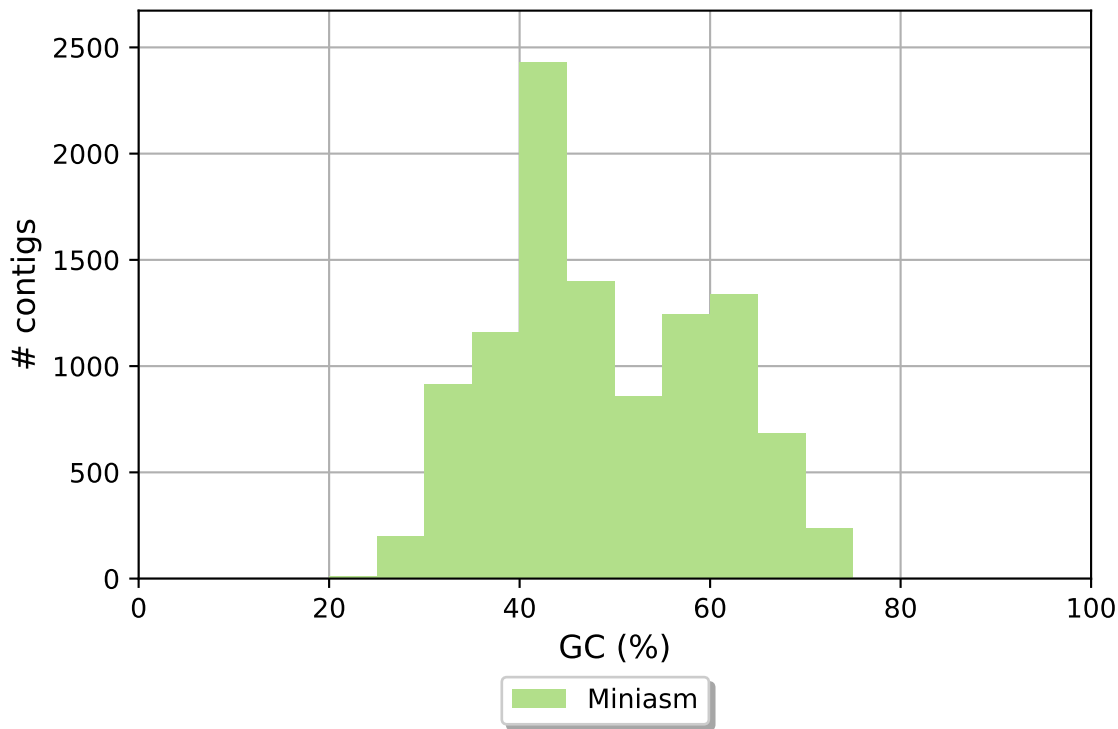
Megahit GC content



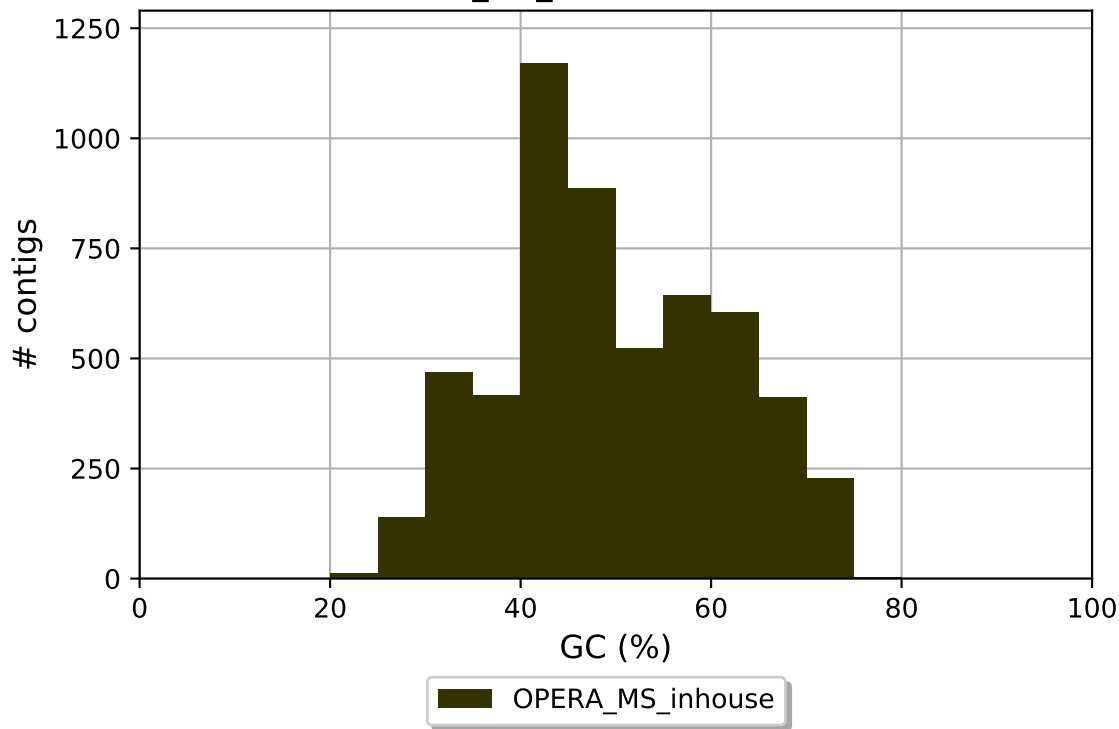
metaSPAdes GC content



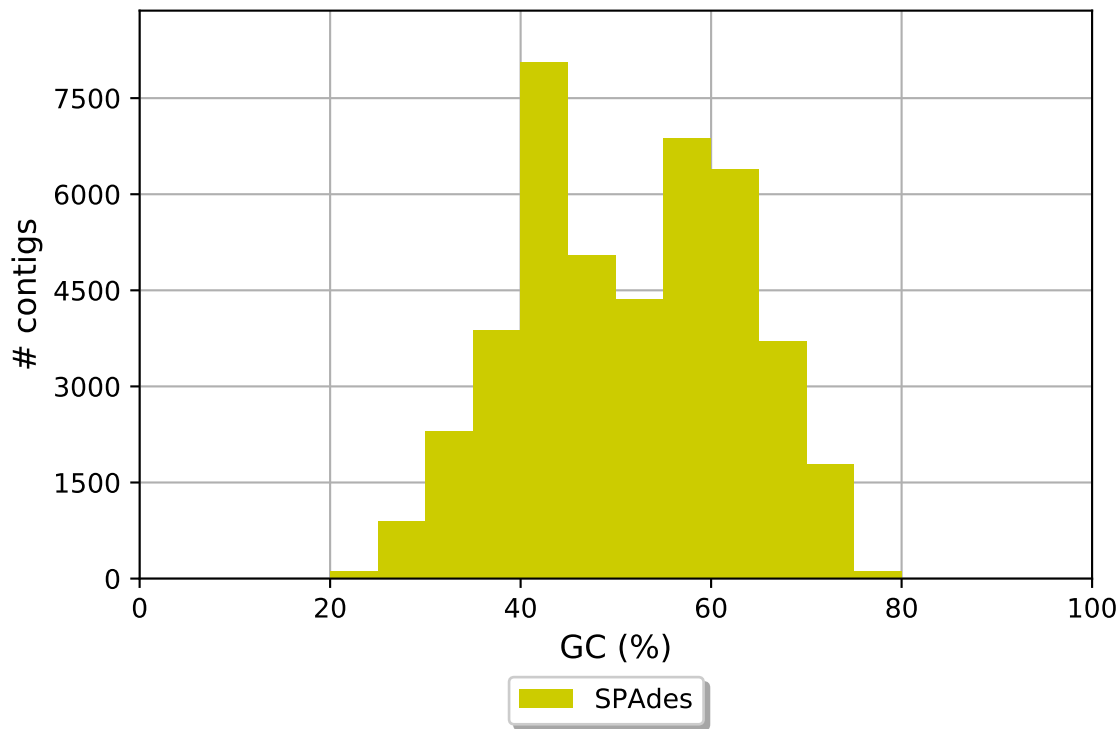
Miniasm GC content



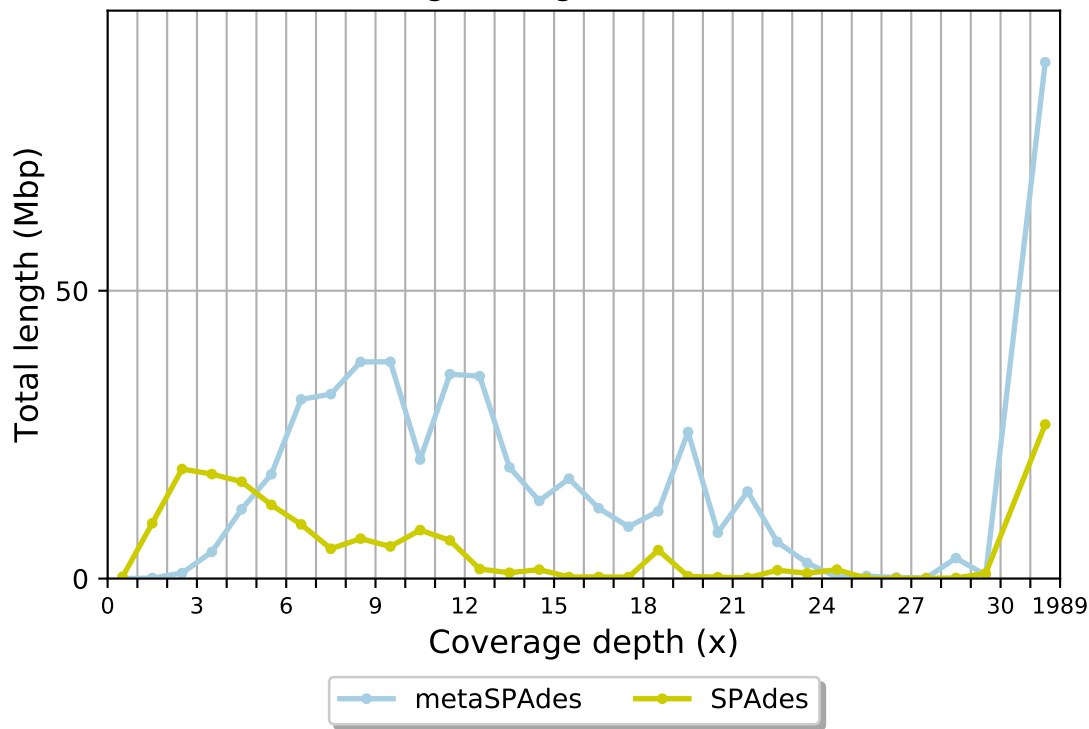
OPERA_MS_inhouse GC content



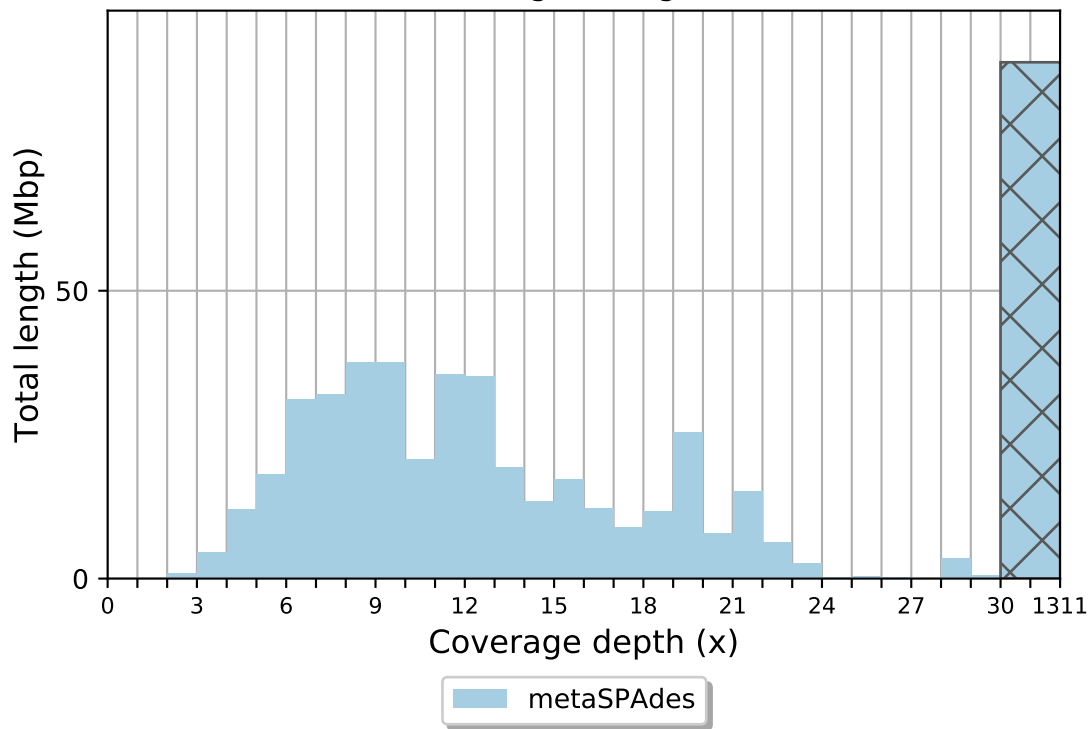
SPAdes GC content



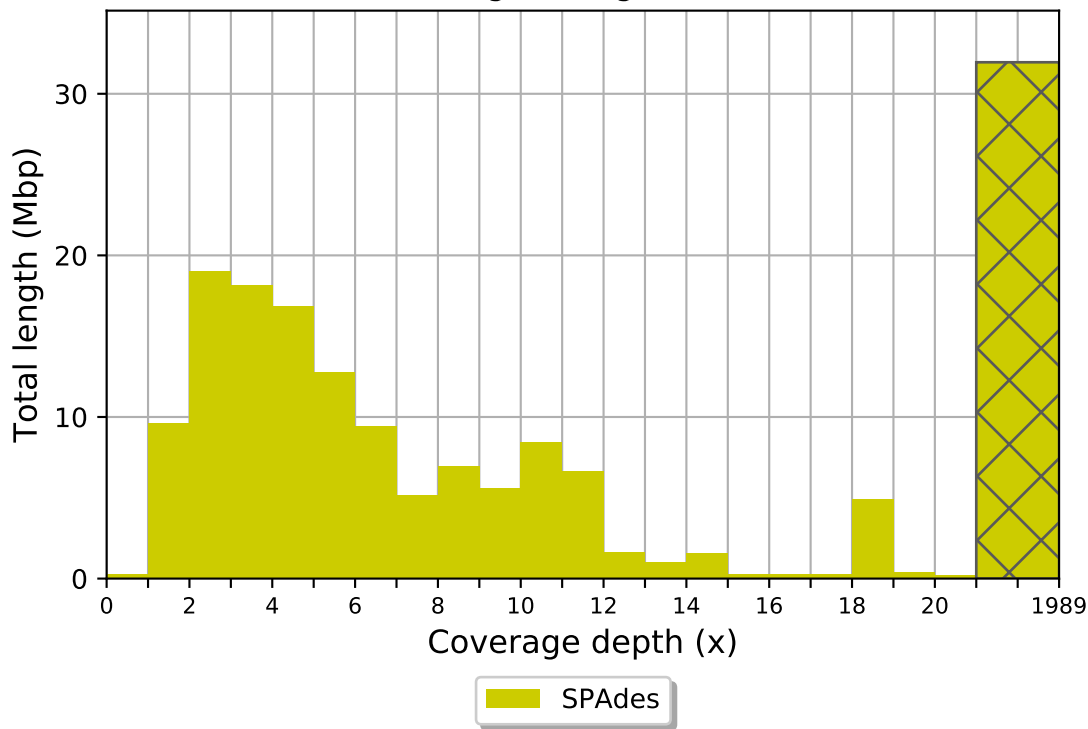
Coverage histogram (bin size: 1x)



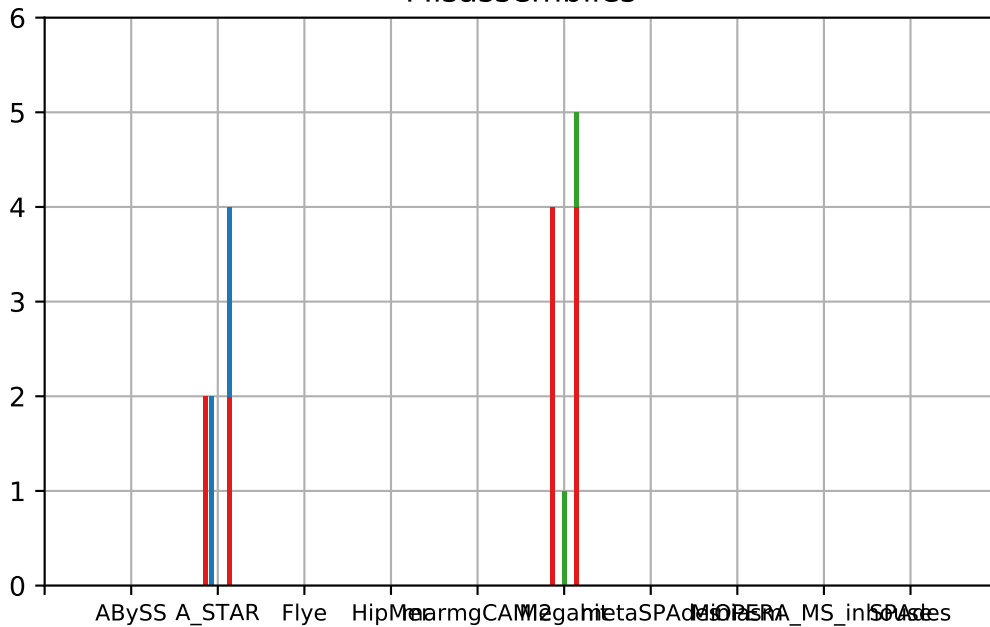
metaSPAdes coverage histogram (bin size: 1x)



SPAdes coverage histogram (bin size: 1x)

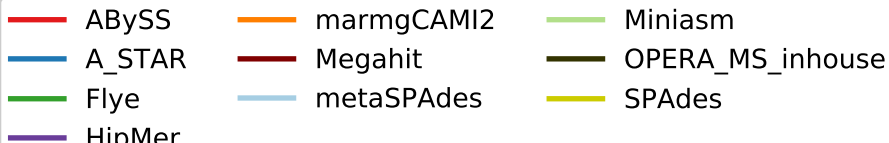
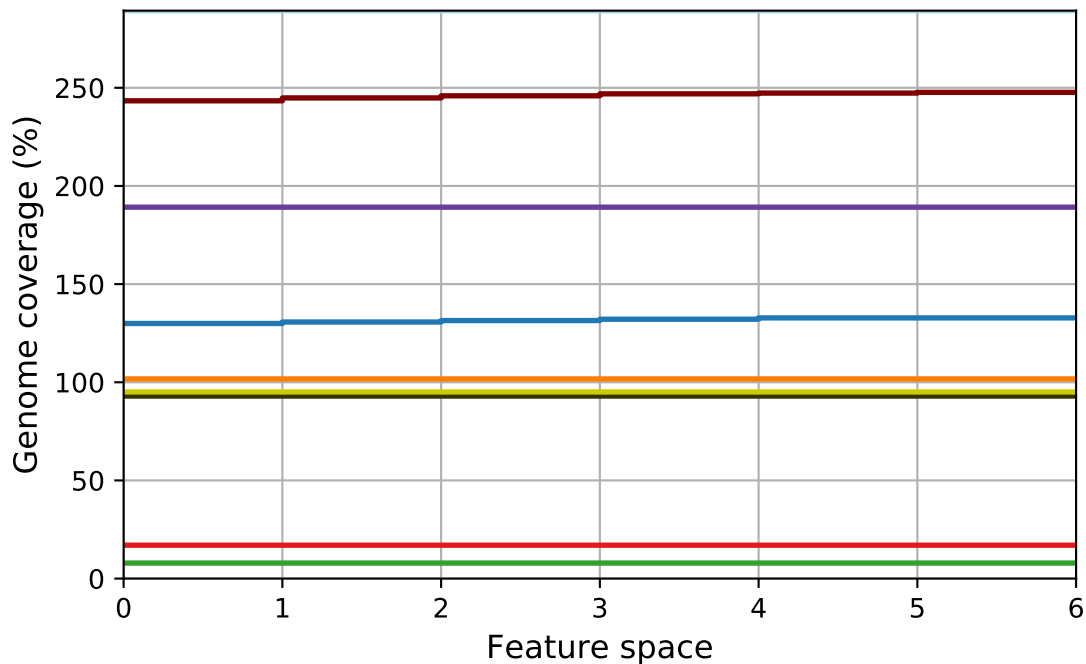


Misassemblies

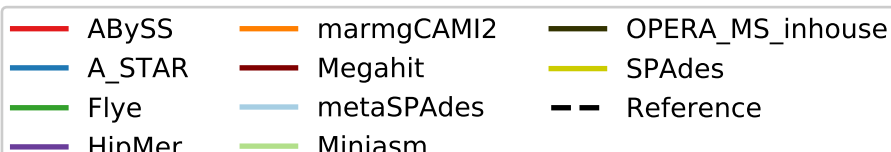
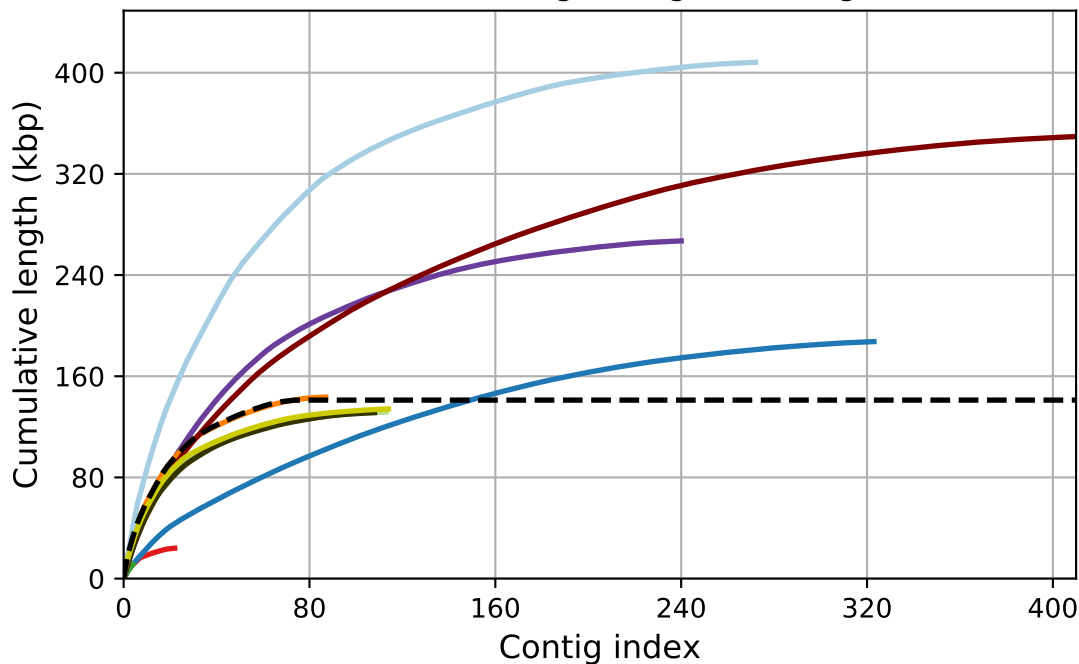


■ # relocations
 ■ # translocations
 ■ # inversions

FRCurve (misassemblies)



Cumulative length (aligned contigs)



NAX

