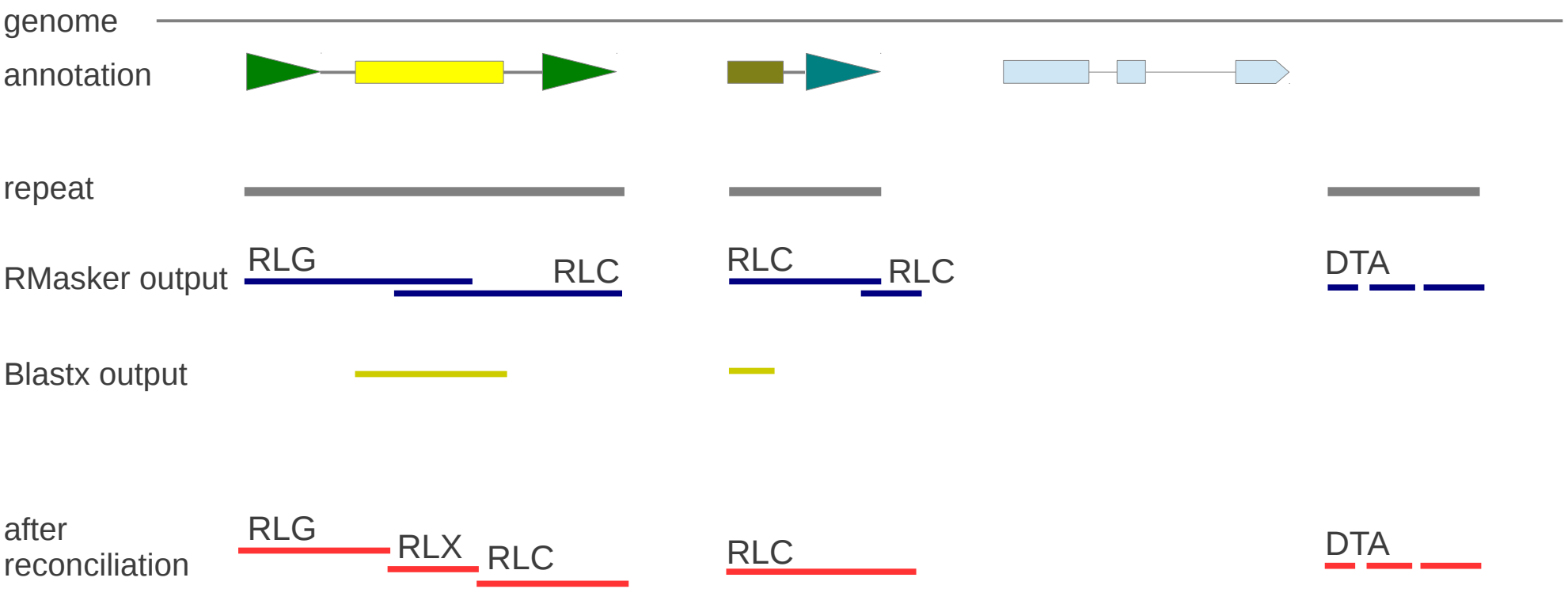
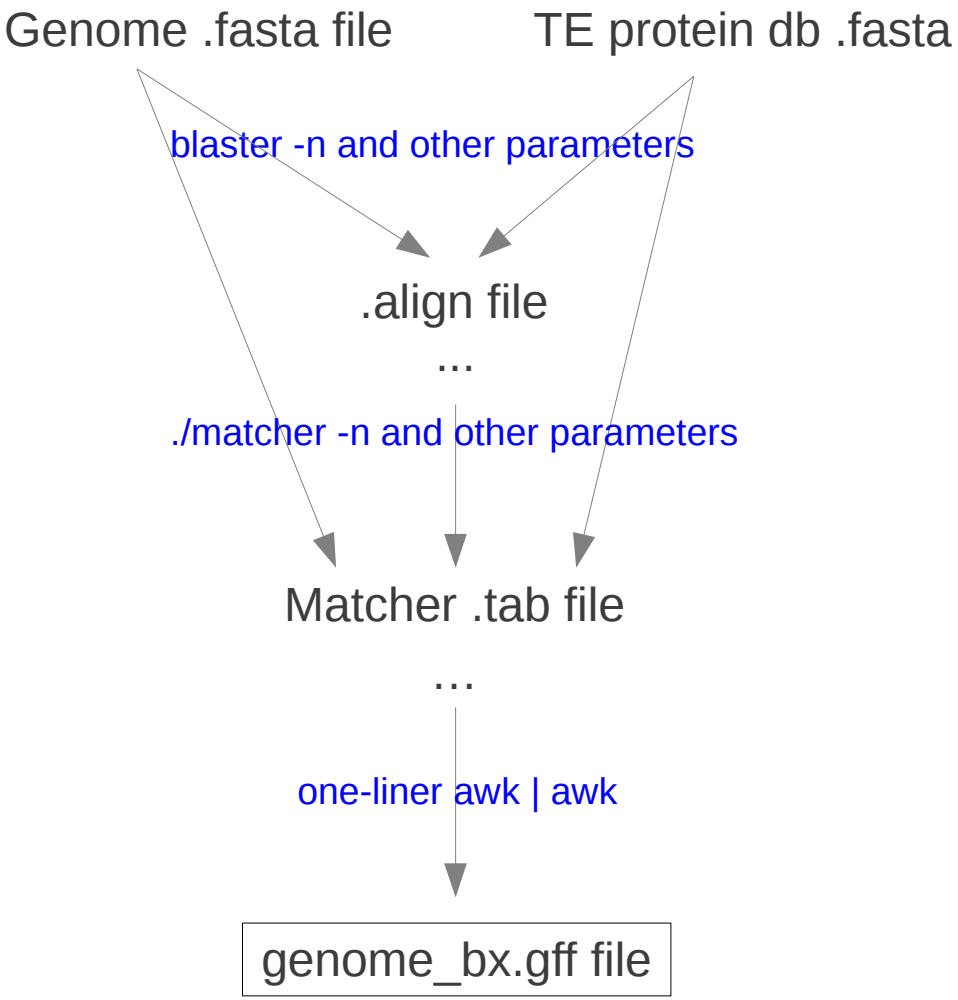
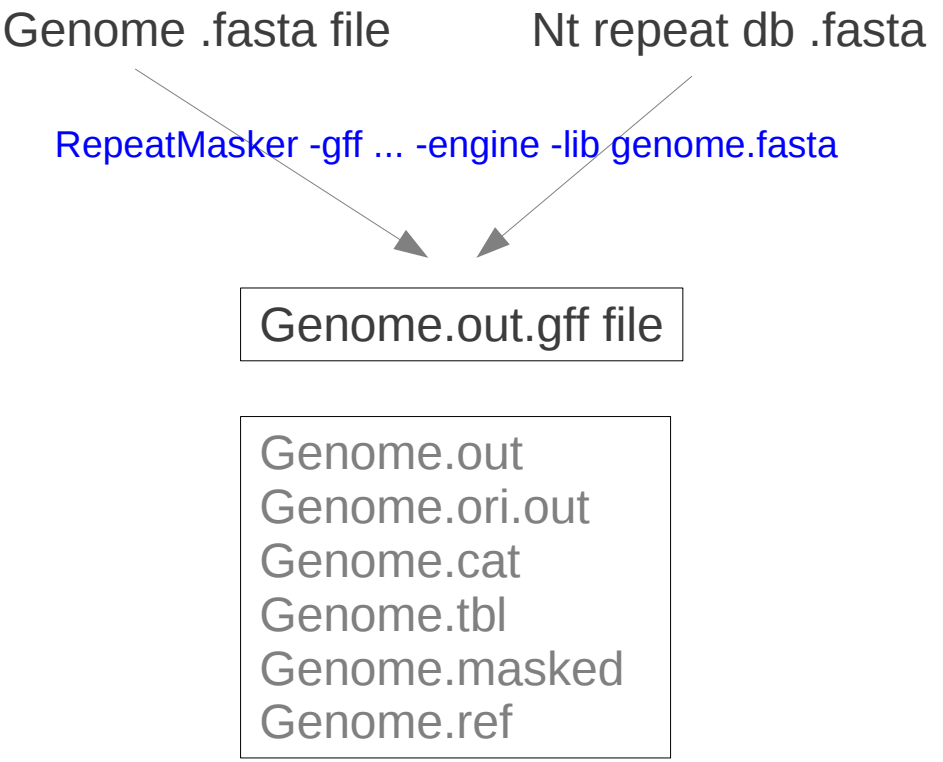
Repeat detection and reconciliation



Blaster pipeline for Blastx

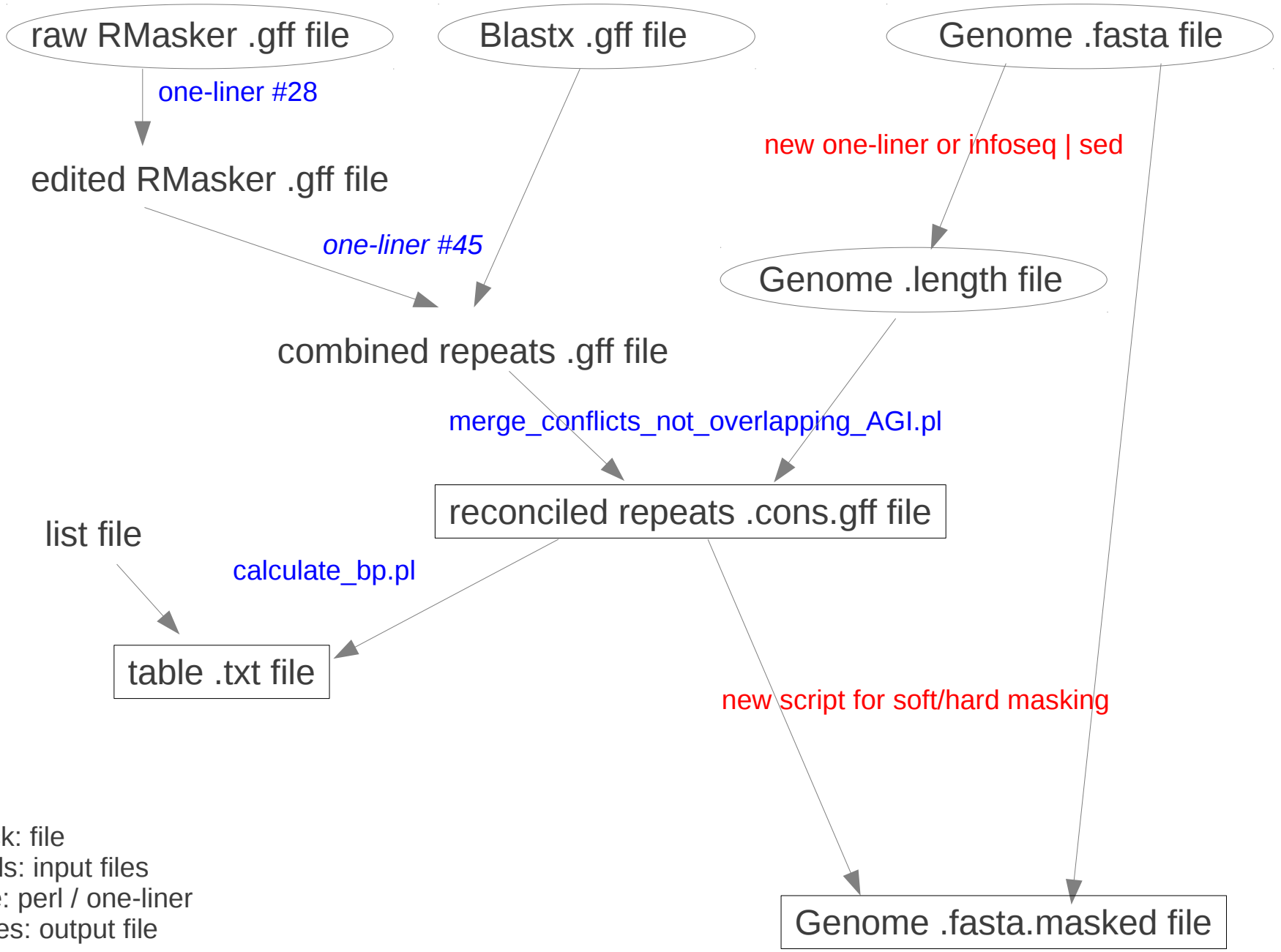


RepeatMasker



Black: file
Blue: perl / one-liner
Boxes: output file

Repeat_Annotation.pl script



Black: file
Ovals: input files
Blue: perl / one-liner
Boxes: output file

Automated Repeat Annotation Pipeline - Output

BRN	91964	482
BTN	44386	620
BXX	228	4
DHH	5375702	15679
DTA	1623797	7171
DTB	61	1
DTC	6057630	16390
DTH	1075348	5857
DTI	24208069	112938
DTM	2861511	9027
DTR	1344	32
DTT	360884	1785
DTX	1929242	13990
DXX	301879	4060
RIJ	12285	94
RIL	3242076	6670
RIT	288	6
RIX	146190	307
RLB	190	4
RLC	9150797	13560
RLE	15063	96
RLG	34398152	34349
RLX	258441	2323
RPP	27	1
RSU	1642616	11314
RXX	41432	818
RYD	230	5
SRC	17435	98
SRR	27722	182
SRS	7052	274
SRT	104059	261
SRX	887	6
SSS	1646444	30066
SSL	987034	33456
SXX	30	1
XXX	839220	12392

```
Obart_chr1  repeat      SSL   137   186   .     .     .     Name=SSL_0
Obart_chr1  repeat      SSL   724   753   .     .     .     Name=SSL_1
Obart_chr1  repeat      DTI   2554  2730  .     .     .     Name=DTI_2
Obart_chr1  repeat      DTH   3011  3032  .     .     .     Name=DTH_3
Obart_chr1  repeat      XXX   3033  3125  .     .     .     Name=XXX_4
Obart_chr1  repeat      RIX   3126  3167  .     .     .     Name=RIX_5
Obart_chr1  repeat      SSS   3544  3574  .     .     .     Name=SSS_6
Obart_chr1  repeat      DTI   7174  7219  .     .     .     Name=DTI_7
Obart_chr1  repeat      DTI   9101  9363  .     .     .     Name=DTI_8
Obart_chr1  repeat      DTI   11210 11308 .     .     .     Name=DTI_9
Obart_chr1  repeat      DTX   11309 11395 .     .     .     Name=DTX_10
```

```
>chr12
GAATTCTGGTTTTGGTTTAGTTTTCAGGATCCAGTACTTGCAAAACTGATTCACAACAGAGTTAACTGAA
GCTAACGTGCAGAGACAAAAGGGTAGGTAGTGCAAATTGAACTATTTCTATCTAGGACTAGGAATACCCC
CAAGAATGCTCCATGAGTTTGACCCTGAGCCCTGATTGACCCTGAGCCCTGATTCAATCTGCAACATTTA
AACAGGGTAGGAAATACAATGGCCaataacttgcgaataacagagcccaactaatttctttttgcacaat
gttaagataatggaaaatgatgtgatcacagtctacttgctagatgaataaaaatggaataGGTAATTCA
GTCAGCACCTCTATCCTCTCATTAAGTGCTTGAAAATGTTGACCCAAACCATTGACAAGAAACTGCCGCA
CGCAAATGGGTACTTGTGTTGGAAATAACTAACCAACACAGCGGAGAATCAACAGAACAGAACATGTATG
CAGCATCTATTTGATTTTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGCATCGTCTGCAACTGTGC
TGACGAAACTGTGACTCATCTCTTTCTCCAATGTCAATTCGCCCAGGAATTCTGGAGAGCCTTGCGTATA
TCTGTGGTTTCGAATGTTCAAGATCTTGCTGACCTCGCTGCTCCCTGCCACTTGCCTGTCAAGCACTTCC
```