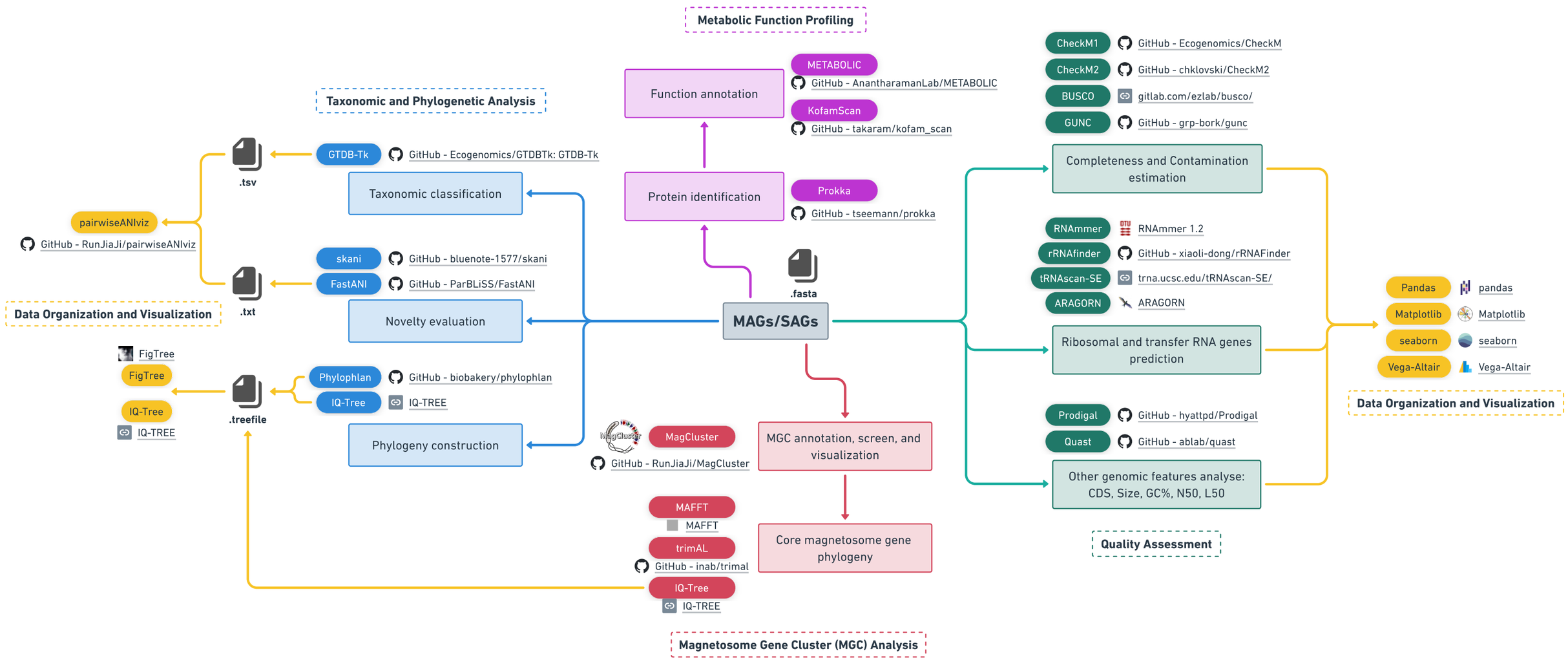
Metabolic Function Profiling
Function annotation
METABOLIC
GitHub - AnantharamanLab/METABOLIC
KofamScan
GitHub - takaram/kofam_scan
Protein identification
Prokka
GitHub - tseemann/prokka
Taxonomic and Phylogenetic Analysis
GTDB-Tk
GitHub - Ecogenomics/GTDBTk: GTDB-Tk
Taxonomic classification
.tsv
pairwiseANIviz
GitHub - RunJiaJi/pairwiseANIviz
skani
GitHub - bluenote-1577/skani
FastANI
GitHub - ParBLiSS/FastANI
Novelty evaluation
.txt
Data Organization and Visualization
.fasta
MAGs/SAGs
FigTree
FigTree
IQ-Tree
IQ-TREE
.treefile
Phylophlan
GitHub - biobakery/phylophlan
IQ-Tree
IQ-TREE
Phylogeny construction
MagCluster
GitHub - RunJiaJi/MagCluster
MGC annotation, screen, and visualization
MAFFT
MAFFT
trimAL
GitHub - inab/trimal
IQ-Tree
IQ-TREE
Core magnetosome gene phylogeny
Magnetosome Gene Cluster (MGC) Analysis
CheckM1
GitHub - Ecogenomics/CheckM
CheckM2
GitHub - chklovski/CheckM2
BUSCO
gitlab.com/ezlab/busco/
GUNC
GitHub - grp-bork/gunc
Completeness and Contamination estimation
RNAmmer
RNAmmer 1.2
rRNAfinder
GitHub - xiaoli-dong/rRNAFinder
tRNAscan-SE
trna.ucsc.edu/tRNAscan-SE/
ARAGORN
ARAGORN
Ribosomal and transfer RNA genes prediction
Prodigal
GitHub - hyattpd/Prodigal
Quast
GitHub - ablab/quast
Other genomic features analyse: CDS, Size, GC%, N50, L50
Quality Assessment
Pandas
pandas
Matplotlib
Matplotlib
seaborn
seaborn
Vega-Altair
Vega-Altair
Data Organization and Visualization