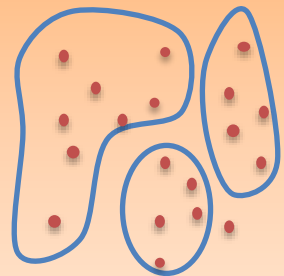


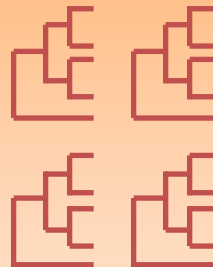
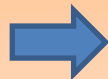
Genomes,
Transcriptomes



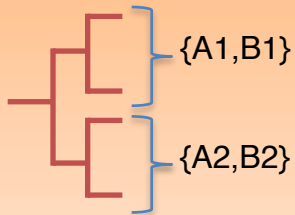
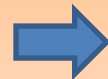
Gene Clustering
BLAST->MCL

VFPE-----FYELREY
VLPE-----YTELFEEY
SKPD-----FDDV-----
SKPD-----FDDV-----
MVPEELDIFADLIDEH
MVPEELDIFAPLIDEH
MVPEELDIFAPVIDEY

Alignment
MAFFT



Gene Family Trees
TNT



Orthology
Assignment

Improved OrthologID

Matrix concatenation



```
#NEXUS
spA  MLADTFP | MV
spB  MLA-TFP | MV
spC  ?????FK | MK
.....
```

Concatenate Orthologs
SpeciesA A1,A2....
SpeciesB B1,B2....