Basic Analysis: We have

an assembly of an archaeal organism
gene annotation
TF binding sites

Which genes have most overlapping TFBs?

http://cloud1.galaxyproject.org/
http://cloud2.galaxyproject.org/
http://cloud3.galaxyproject.org/

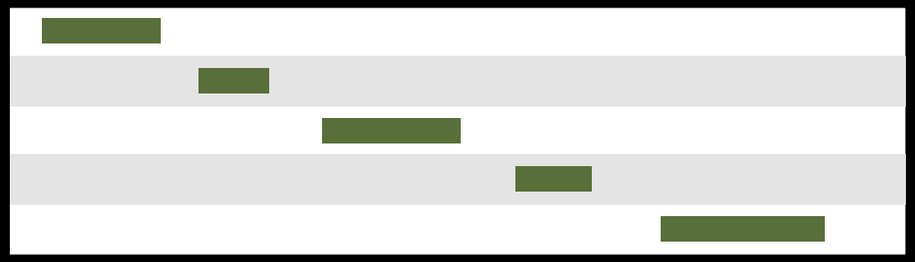
(~ http://usegalaxy.org/galaxy101)

Genes & TFBs: A General Plan

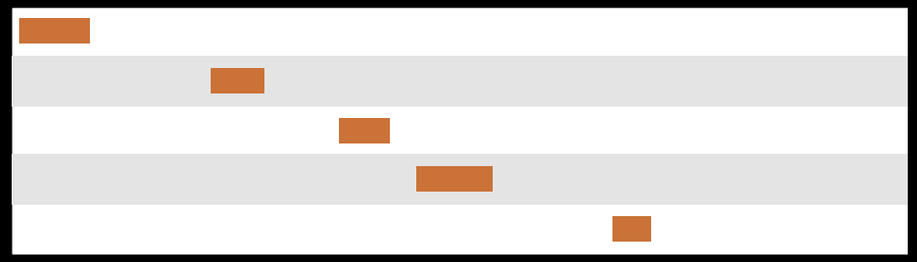
- Get some data
  - Sequence, genes/exons, TFBs
- Mess with it
  - Identify which genes/exons have TFBs
  - Count TFBs per exon
  - Visualize, save, download, ... exons with most TFBs

http://cloud1.galaxyproject.org/
http://cloud2.galaxyproject.org/
http://cloud3.galaxyproject.org/

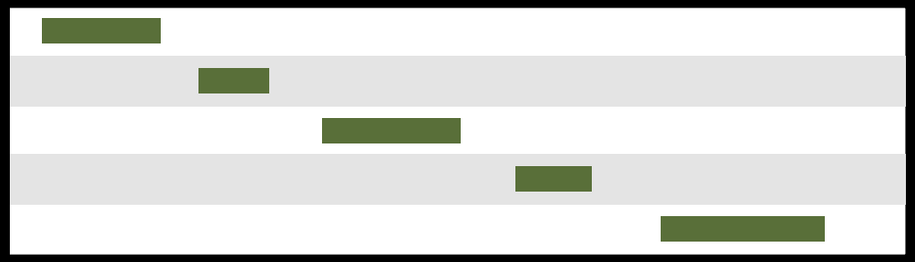
(~ http://usegalaxy.org/galaxy101)



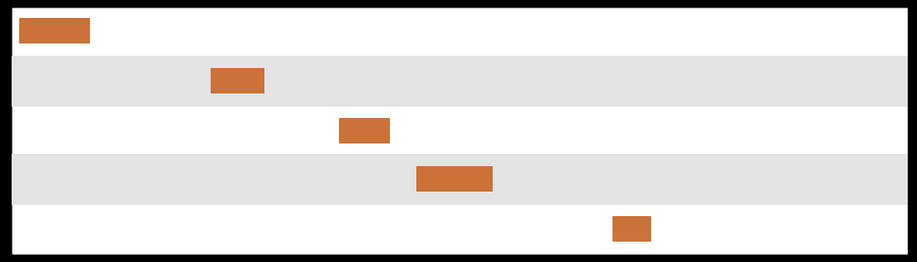
Exons



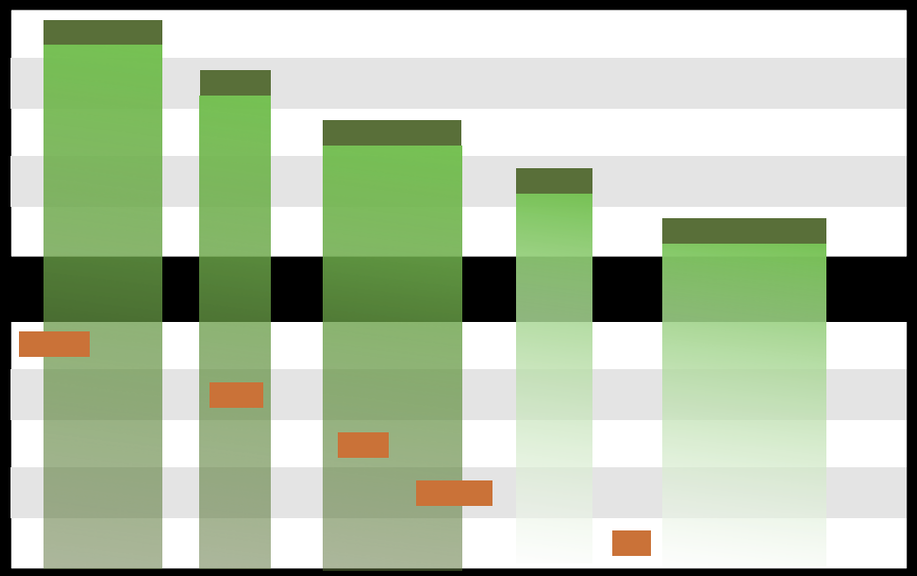
TFBs



Exons



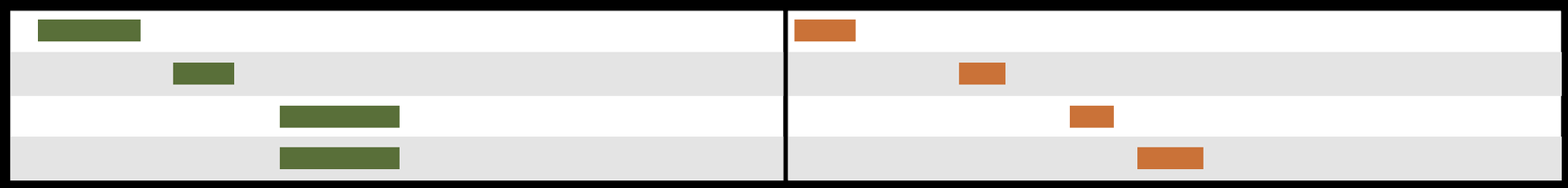
TFBs

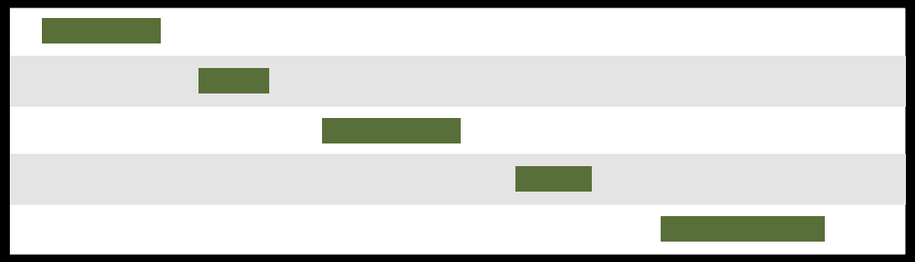


Exons

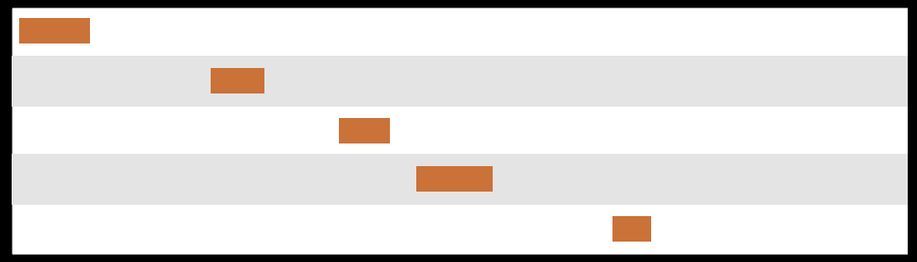
TFBs

Overlap pairings

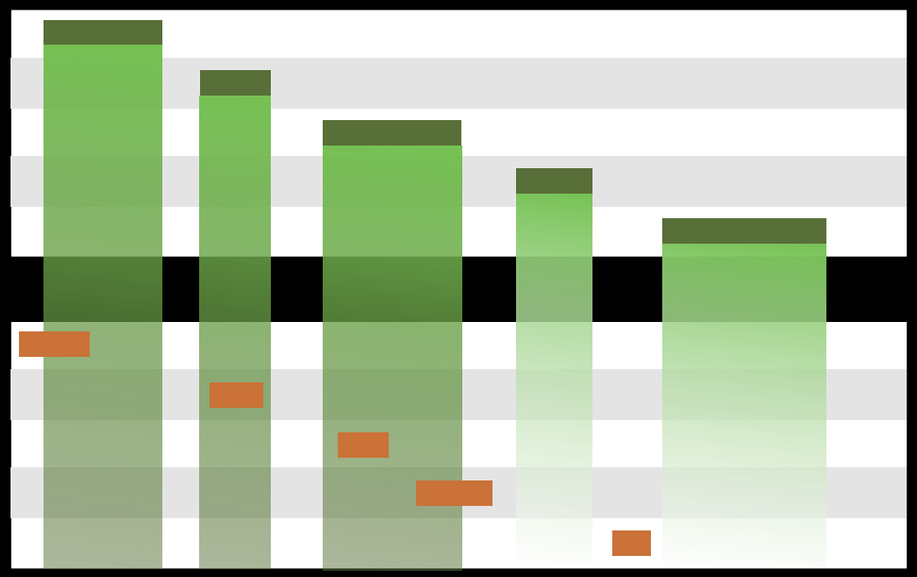




Exons



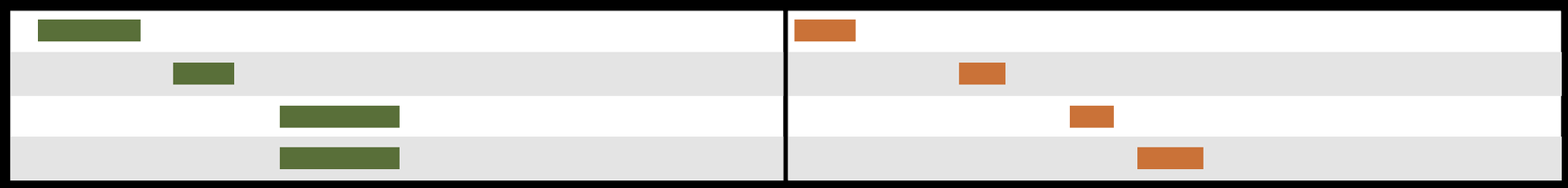
TFBS



Exons

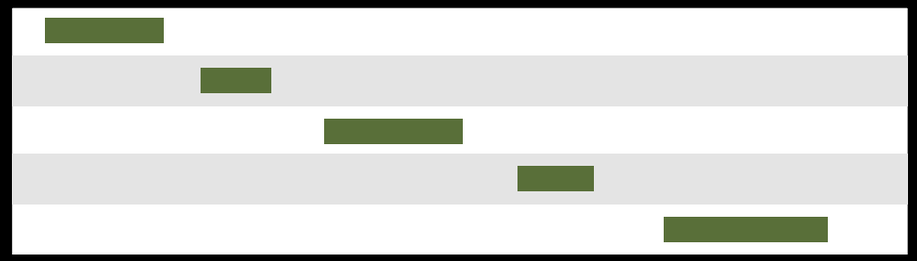
TFBS

Overlap pairings



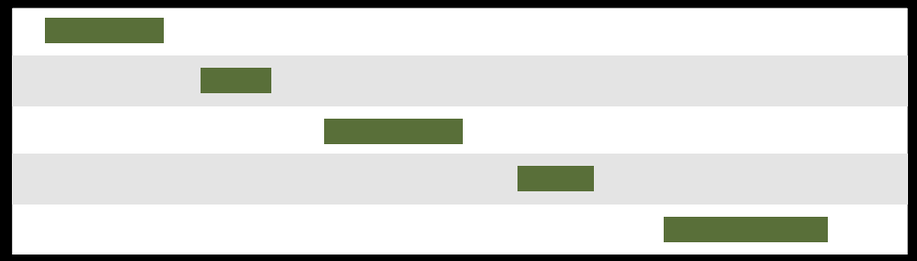
Exon overlap counts

Exon overlap counts



Exons

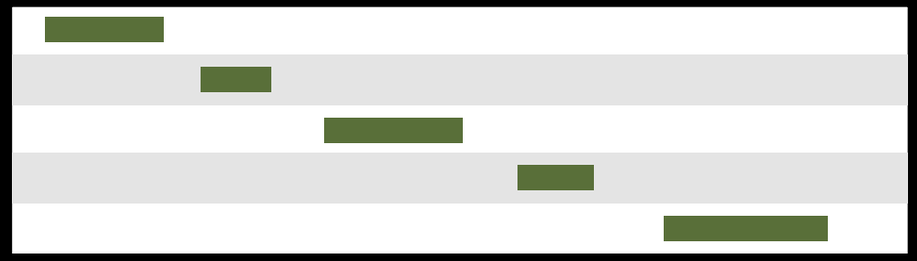
Exon overlap counts



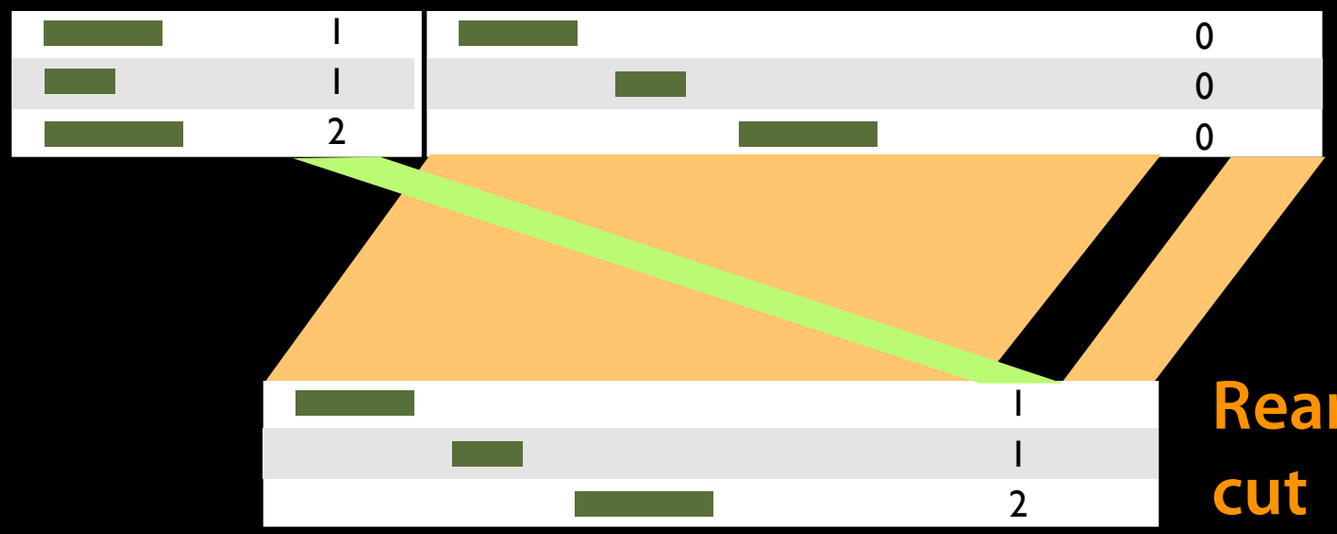
Exons

Join on exon name

Exon overlap counts



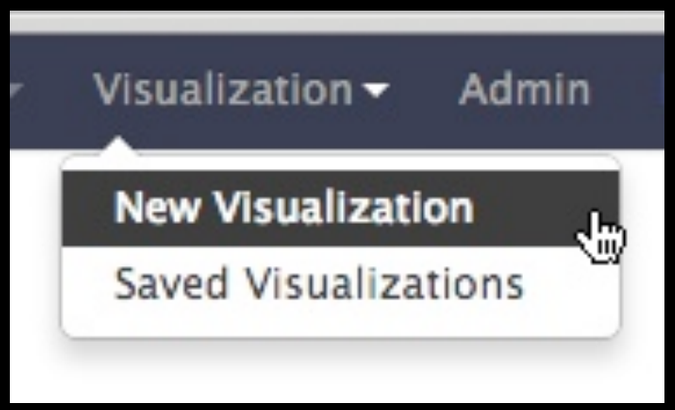
Exons



Join on exon name

Rearrange columns w/ cut

Visualize results



or