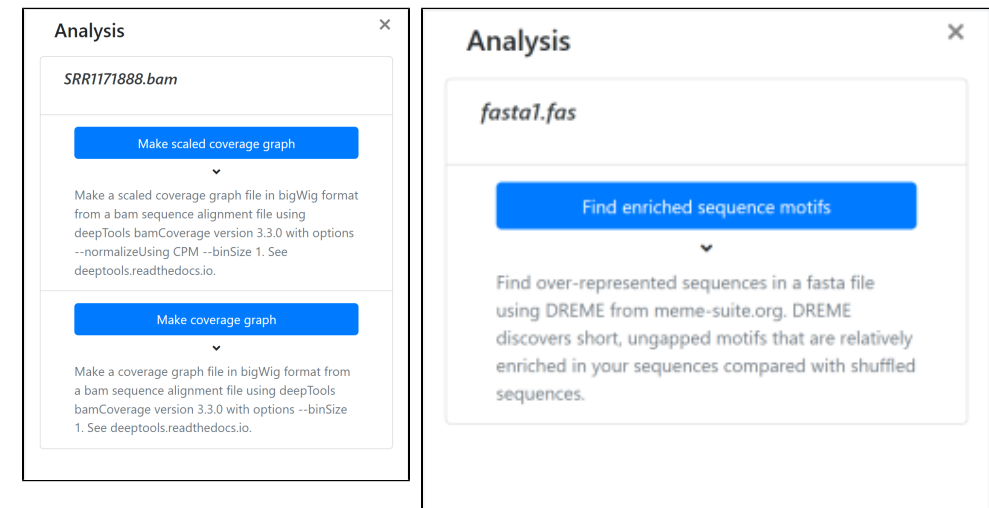


Analyses

Bioviz Connect utilizes CyVerse’s cloud computing to perform powerful analyses on genomic data.

To Analyze:

To analyze a file right click and choose ‘Analyze’. A panel will open on the right with the available analyses, if there are any. Click the appropriate button for the analysis you want to run.



Once you have chosen a type of analysis, a new form will appear in the same window. Enter your analysis name. An output file name will be generated for you. This can be edited to any name you like.

When you have completed entering your information click 'Run Analysis'.

Make scaled coverage graph

← Back

Analysis Name ?

C_sativaScaledCoverageGraph

Input File (BAM) ?

SRR1171888.bam

Input File Index (.bai) ?

SRR1171888.bam.bai

Output file name ?

SRR1171888.bigwig

Run Analysis

Analysis Status

You can check the analyses' status by using the 'Analyses History' tab, where analyses are listed as Queued (waiting to run), Running, Failed, or Completed. The length of the time to complete a job is dependent on the size of the queue, the analysis being carried out, and the size of the file. It will likely take several minutes for the analysis to complete. CyVerse will send an email to you when the analysis is finished.

<div>+ New</div> <div>Home</div> <div>Shared with me</div> <div>Community</div> <div>Analysis History</div>	Name	App Name	Start Date	End Date	Status
	SRR10060912ScaledCoverag...	Make scaled coverage graph	06-17-2020 14:57:21	06-17-2020 15:01:16	Completed
	SRR10060911ScaledCoverag...	Make scaled coverage graph	06-17-2020 14:35:39	06-17-2020 14:40:37	Completed
	TestWednesdayScaled	Make scaled coverage graph	06-17-2020 14:34:36	06-17-2020 14:39:43	Completed
	TestWednesday	Make coverage graph	06-17-2020 14:33:20	06-17-2020 14:38:58	Completed

Page 1

Analysis Results

When the analysis is finished, any files or folders created through the process will appear in the 'Analyses' folder in your 'Home' directory, or in the same location as the input files if those are stored in a location where you have permission to modify or add to the folder.

BioViz Connect

Search Home

+ New

Home

Shared with me

Community

Analysis History

Visualization Tools

analyses

LocalQuickload

my_quickload

bam.txt

Page 1

+ New

analyses

Visualization Tools

Name	Size	Last Modified
SRR10060911ScaledCoverageGraph.bedgraph	137 KB	Jun 17, 2020
SRR10060912ScaledCoverageGraph.bedgraph	133 KB	Jun 17, 2020
TestWednesday.bedgraph	267 KB	Jun 17, 2020
TestWednesdayScaled.bedgraph	148 KB	Jun 17, 2020

Page 1

To quickly navigate to the analysis results, you can click the analysis name in the 'Analyses History' tab, opening the folder where the output data files are stored.

Note that running analyses uses Compute Units which may be limited by your account's subscription status. See cyverse.org/ for more information.

Supported File Types

Currently BioViz Connect supports analyses of:

- bam files
 - genome wide coverage graph
 - Make a coverage graph file in bigWig format from a bam sequence alignment file using deepTools bamCoverage version 3.3.0 with options --binSize 1. See deeptools.readthedocs.io.
 - genome wide scaled coverage graph
 - Make a scaled coverage graph file in bigWig format from a bam sequence alignment file using deepTools bamCoverage version 3.3.0 with options --normalizeUsing CPM --binSize 1. See deeptools.readthedocs.io.
- fasta files
 - Find enriched sequence motifs
 - Find overrepresented sequences in a fasta file using DREME from meme-suite.org. DREME discovers short, ungapped motifs that are relatively enriched in your sequences compared with shuffled sequences.