JBrowse as a Tool Eric Rasche

JBrowse as a Tool

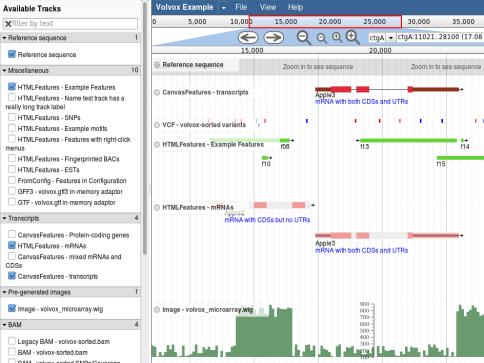
Eric Rasche

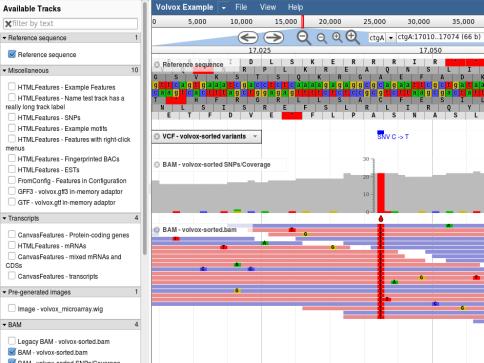
2015-07-07

JBrowse is a Genome Browser

JBrowse as a Tool Eric Rasche

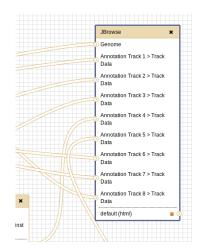
- Fast
- Features!
- Extensible





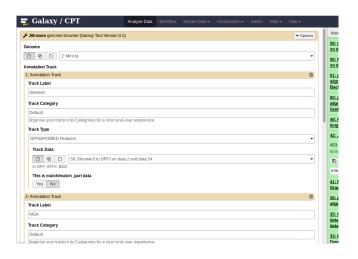
Why JBrowse as a Tool? Workflows!

JBrowse as a Tool



GFF3/BED

JBrowse as a Tool



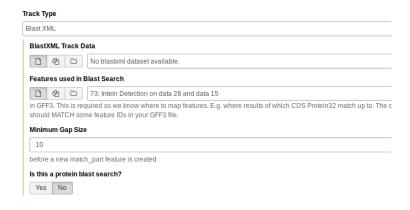
BAM

JBrowse as a Tool



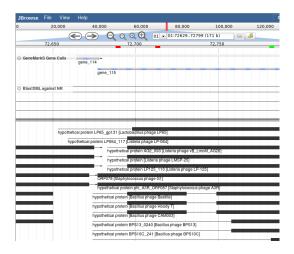
Blast XML

JBrowse as a Tool



Gapped Blast XML

JBrowse as a Tool



BigWig

JBrowse as a Tool



VCF/SNPs

JBrowse as a Tool Eric Rasche

Track Type	
VCF SNPs	
SNPs	
in VCF	No vcf dataset available.

Nice Features

JBrowse as a Tool

- Lots of formats
- "Sugar" to support non-standard data for JBrowse like BlastXML
- Just an HTML dataset, download, view, deploy to production servers

Planned Features

JBrowse as a Tool Eric Rasche

- Soon more raw JBrowse configuration
- Color/track styling implemented
- Will be easier to configure "production" JBrowse instances

Caveats/TODOs

JBrowse as a Tool

- This is still a work-in-progress (but it's close!)
- Still some bugs in dependencies & their installation process
- Broken upstream perl modules, yay!
- JBrowse-in-Galaxy will not display BAM/BigWig files if you aren't using X_SENDFILE (but I think we can fix this)

Q&A

JBrowse as a Tool Eric Rasche

> ■ Development: https://github.com/galaxyprojec/tools-iuc

■ Twitter: @Eric_Rasche

■ Bugs/feature requests welcome!