JBrowse as a Tool

Eric Rasche

What is it? Screenshots

IBrowse in Galaxy

Featur

GFF3/BED BAM Blast XML BigWig VCF/SNPs

Nice Features

Cayoato

A &Q

JBrowse as a Tool

Eric Rasche

2015-07-07

JBrowse is a Genome Browser

JBrowse as a Tool

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What is it?

Screenshots

IRrowse in Galaxy

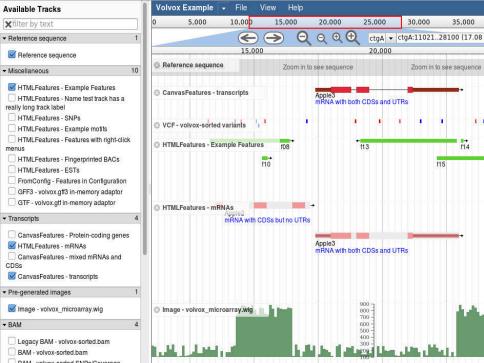
GFF3/BED BAM Blast XML

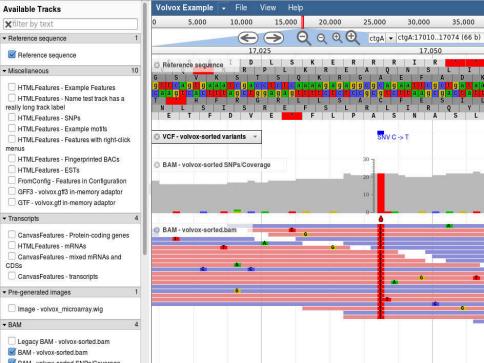
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0 & A

- Fast
- Features!
- Extensible





Why JBrowse as a Tool? Workflows!

JBrowse as a Tool

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What is it?

JBrowse in Galaxy

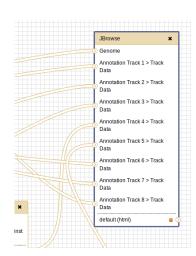
Features GFF3/BE

Blast XML BigWig

Nico Ensturas

Cayoate

0 & A



GFF3/BED

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What is it?

JBrowse in Galax

Features

GFF3/BED

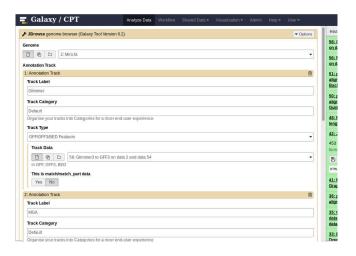
BAM Black YMI

BigWig VCF/SNPs

Nice Feature

Caveats

O & A



BAM

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What is it?

JBrowse in Galax

Features

GFF3/BEI

BAM

Blast XML BigWig VCF/SNPs

Nice Feature

Caveats

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Blast XML

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What is it?

JBrowse in Galax

GFF3/BE

BAM Blast XML

BigWig

Nice Features

Caveats

A&C

Track Type	
Blast XML	
BlastXML Track D	ata
	No blastxml dataset available.
Features used in E	Blast Search
	73: Intein Detection on data 28 and data 15
	uired so we know where to map features. E.g. where results of which CDS Protein32 match up to. The ne feature IDs in your GFF3 file.
Minimum Gap Size	
10	
before a new match	n_part feature is created
Is this a protein bl	ast search?
Yes No	

Gapped Blast XML

JBrowse as a Tool

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What is it?

JBrowse in Galax

GFF3/BE

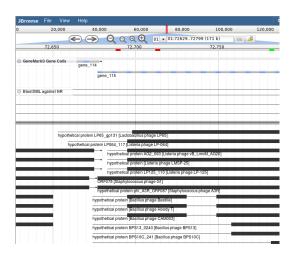
Blast XML

BigWig VCF/SNPs

Nice Features

C -----

0 & A



BigWig

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What is it?

JBrowse in Galaxy

Features
GFF3/BED

BAM Blast XMI

BigWig VCF/SNP

Nice Feature

Darahaa

Caveats

A&C



VCF/SNPs

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What is it?

JBrowse in Galax

Features GFF3/BED BAM

BAM Blast XML

VCF/SNPs

Nico Ecotur

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Nice Features

JBrowse as a Tool

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What is it? Screenshots

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Features
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BAM
Blast XML
BigWig

Nice Features

Roadma

Caveat

) P. A

- 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

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What is it?

JBrowse in Galax

Features GFF3/BE

BAM Blast XML BigWig VCF/SNPs

Nice Features

Roadmap

O P. A

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

Caveats/TODOs

JBrowse as a Tool

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What is it? Screenshots

JBrowse in Galax

Features GFF3/BED BAM Blast XML BigWig

Nice Feature

Caveats

O&A

- 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

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BAM Blast XML BigWig VCF/SNPs

Nice Feature

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Caveat

Q&A

■ Development:

https://github.com/galaxyprojec/tools-iuc

■ Twitter: @Eric_Rasche

■ Bugs/feature requests welcome!