JBrowse as a Tool

Eric Rasche

What is it? Screenshots

JBrowse in Galaxy

Featur

GFF3/BED BAM Blast XML BigWig VCF/SNPs

Nice Features

Roadmap

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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GFF3/BED BAM Blast XML

BigWig VCF/SNPs

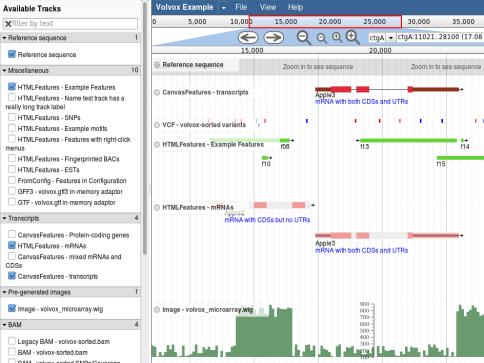
Nice Features

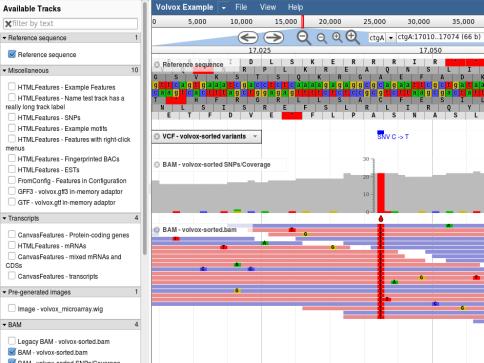
Roadmap

Caveat

O & A

- Fast
- Features!
- Extensible





Why JBrowse as a Tool? Workflows!

JBrowse as a Tool

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What is it?

JBrowse in Galaxy

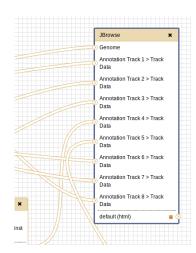
Features GFF3/BE

Blast XML BigWig

Nice Features

Cayoato

O & A



GFF3/BED

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What is it?

JBrowse in Galax

Features

GFF3/BED

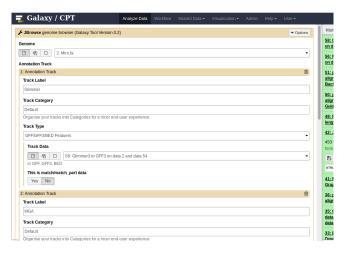
DAMA

Blast XML BigWig

Nice Features

Caveats

08.A



BAM

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Blast XML

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What is it?

IBrowse in Galaxy

GFF3/BEI

BAM Blast XML

BigWig

Nice Features

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A&C

Track Type

Blast XMI

BlastXML Track Data

No blastxml dataset available.

Features used in Blast Search

D 20 D

73: Intein Detection on data 28 and data 15

in GFF3. This is required so we know where to map features. E.g. where results of which CDS Protein32 match up to. The q

Minimum Gap Size

10

before a new match part feature is created

should MATCH some feature IDs in your GFF3 file.

Is this a protein blast search?

Yes No

Gapped Blast XML

JBrowse as a Tool

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What is it?

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GFF3/BE

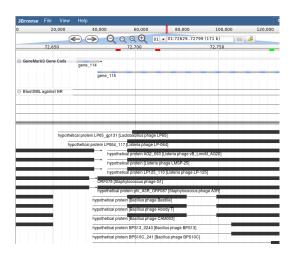
Blast XML

BigWig

Nice Features

C -----

A &Q



BigWig

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VCF/SNPs

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Nice Features

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> 0 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

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O 0 . A

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

Caveats/TODOs

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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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Caveat

Q&A

■ Development:

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

■ Twitter: @Eric_Rasche

■ Bugs/feature requests welcome!