GMOD Help Desk

Dave Clements

GMOD Help Desk

- What I've been doing
- What I'm planning on doing
- What should I be doing?
- How am I doing?

What I've been doing

- Web site
  - Tags/Categories
    - Tagged every page
    - Made it easy to tag pages, lookup pages by tag
  - Pages for new users
    - Glossary, GMOD and Databases, …
  - Community Portal
    - News, Calendar, Recent Changes
    - Need your help

What I've been doing

- Outreach
  - Posters:
    - Genome Informatics, IGERT EvoDevo, Arthropod Genomics, Genetics of Behavior, ISMB
  - Representation
    - Lepidoptera and ArthropodBase; U Oregon
  - Promotion
- Education
  - Chado Workshop with Scott @ Arthropod Genomics
    - ~35 people
  - GMOD Summer School with Scott, Ed, Ben,
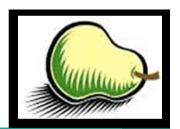   - 25 students for 2 1/2 days
- Components
  - MAKER, Phenote

@ ISMB & BOSC 2008

http://gmod.org

BOSC Talks

Intermine - Open source Data Warehouse and Query Interface
Richard Smith, Fri 11:10-11:35

Ergatis: A Web-based Bioinformatics Pipeline Management and Collaborative Development System
Joshua Orvis, Sat 9:30-9:55

Apollo: a Sequence Annotation Editor
Ed Lee, Sat 11:50-12:10

EMBRACE - BioMart Developments and Future
Syed Haider, Sat 1:50-2:10

ISMB Talks

EMBRACE - Enabling Data Integration
Syed Haider, Sun 2:15-2:40

Intermine - Open source Data Warehouse and Query Interface
Richard Smith, Mon 12:15-12:40

Pathway Tools Software: Regulatory Networks and Recent Developments
Peter Karp, Mon 3:15-3:40

Galaxy Workflows: Enabling Complex Computational Analysis For Experimental Biologists
James Taylor, Tue 3:15-3:40

New GALAXY Tools
Anton Nekrutenko, Tue 3:45-4:10

Posters about GMOD

Sun 5:45-8:30pm

A Genome Grid for Finding new Bug Genes
A Complete System for Community Genome Annotation
GMOD: Managing genomic data from emerging model organisms
Galaxy workflows for reproducible analyses of next-generation sequencing data, Anton Nekrutenko

Mon 5:45-8:30pm

Metagenomic Analysis with Galaxy: Windshield Genomics and Beyond
EMBRACE – Enabling Data Integration

Posters using GMOD

Sun 5:45-8:30pm

Multidimensional annotation of the Escherichia coli K-12 genome
Towards Data Analysis of Genome Wide Influenza RNAi Screen
Bioinformatics to support the sequencing of Brassica rapa chromosomes A2 and A10

Mon 5:45-8:30pm

Regional co-variation among rates of different types of mutations
Solutions for database interoperability: a report from the CASIMIR consortium

What I'm planning

- GMOD User Directory
  - How
    - UseTableEdit
    - Each user has a page
    - Each component lists users of that component
    - Comprehensive user list.
    - All driven by data on each user page.
  - Why
    - Community portal
    - Give new users an idea of who is doing something similar
    - I'll be in the neighborhood

Experience Logs

- Can't possibly describe or maintain HOWTOs for all OS/software combos.
- Create organization for including, encouraging and tagging user experience logs
  - A few already on the web site.
  - No maintenance involved with this.
  - Just catalog as we try them.

Documentation

- Chado doc reorganization
  - Including Chado Cookbook / Best Practices
  - Mine gmod-schema mailing list
  - Start user directory
- GBrowse Doc
  - GBrowse Glyphs
  - GBrowse Cookbook?
- Community Annotation Server Doc

Documentation 2

- Tutorials
  - Screencasts for sophisticated user interfaces
  - GBrowse, Apollo, CMAP

- Web site
  - Mediawiki upgrade
  - TableEdit
  - Better searching
  - New skin?

Components

- Galaxy, InterMine, BioMart
  - Seek tighter integration with rest of GMOD
- TableEdit
  - Documentation
  - Testing - will integrate with GMOD web site
  - Could be key to (non-sequence) community annotation
- Natural Diversity Chado Module
  - Get it integrated, documented and used
- Google 2009 Summer of Code?
- GMOD Logo Service?

Education & Outreach

- 2009 Summer School
- GMOD Course in Europe?
- Conferences
  - Tutorial at Plant and Animal Genomics?
  - Arthropod Genomics
  - IPlant?
  - More posters
- Particularly promote
  - Comparative Genomics
  - Community Annotation

Grants, Reviews & Funding

- I now offer to review grants that propose using GMOD
- Encourage grant writers to include funding for GMOD
  - Fund general project or specific components
  - Could increase stability of GMOD

What should I be doing?

?

How am I doing?

Don Gilbert is doing a review of my first year in August and September.

Please contact him if you any feedback.

Thank You!

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http://gmod.org/GMOD_Help_Desk
http://nescent.org

GMOD @ Arthropod Genomics Symposium

GMOD Users
wFleaBase
BeetleBase
FlyBase
AphidBase
ButterflyBase
VectorBase
BeeBase
HeliconiusBase
GnpAnnot-Lep
+ hundreds more

GMOD Tools
Chado
Apollo
GBrowse
CMap
Table Editor
GMODWeb
Ergatis
Textpresso
Sybil
BioMart
LuceGene
SynBrowse
Galaxy
InterMine
...

Workshops

Thursday 7-9pm
Community Contributions to Genome Annotation
Christine Elsik, Christopher Childers, Darren Hagen

Friday 7:30-9:30pm
Chado Databases and Integration with GMOD Tools
Scott Cain, Dave Clements

Talks

Friday 11:25-11:45am
Unlocated arthropod genes and ways to find them
Don Gilbert

Posters

Friday 5-6:30pm
A comparative annotation of Drosophilid dicistronic genes

Saturday 10-11:30am
A Complete System For Community Genome Annotation
GMOD: Database Resources for Emerging Model Organisms
Comparative genomics and database construction for Lepidoptera
Unlocated Arthropod genes, and ways to find them
VectorBase: A genome resource for arthropod vectors of human pathogens
The VectorBase Manual and Community Annotation Submission pipeline
ButterflyBase: A framework for comparative genomics in butterflies and moths

http://gmod.org

Got data?