Status

- Mature release
- Development: inactive
- Support: active

Resources

- Home page
- Download
- 2008 Survey

About CMap

A browser-based tool for the visual comparison of various maps (sequence, genetic, etc.) from any number of species. The CMap package also includes tools for curating map data.

Visit the CMap website.

Screenshots

Here are some sample maps from the Gramene Project. See also other Gramene views.

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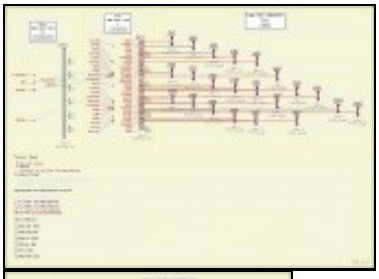
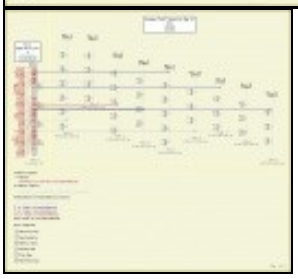
- 
- 

Downloads

- Download CMap: http://sourceforge.net/projects/gmod/files/cmap/
- The source code for CMap can be downloaded from https://gmod.svn.sourceforge.net/svnroot/gmod/cmap.

Using CMap

System Requirements

- Perl 5.6.0 or higher
- A web server with CGI capabilites (e.g., Apache 1.x or 2.x)
- A relational database, e.g. MySQL (4.0+), Sybase Adaptive Server Enterprise, PostgreSQL, SQLite or Oracle (9.x)
- libgd (2.0.28 or higher) and [GD GD.pm (2.16 or higher)]
- Various Perl modules available on CPAN

Documentation

- Gramene CMap User Tutorial,
  Available in both PDF and PowerPoint formats.
- CMap_API (SVN)
- README
- Changes
- INSTALL.pod
- ADMINISTRATION.pod
- CODE_OVERVIEW.pod
- TODO
- attributes-and-xrefs.pod

- CMAP Schema
- CMAP Tutorial at Texas A & M
- CMap Version 2 Design

Also see the CMap FAQ.

Publications, Tutorials, and Presentations

Publications on or mentioning CMap

- CMap 1.01: a comparative mapping application for the Internet. [1]

Tutorials

Tutorial @ Gramene

Presentations

- File:CMapGenomeInformatics2009.pdf, poster from Genome Informatics 2009
- File:CMapGBrowseSMBE2009.pdf from the GMOD Workshop at SMBE 2009
- File:2007 11 05 CMap GMOD.ppt from November 2007 GMOD Meeting
- File:BenFaga GMOD June 2006.ppt from June 2006 GMOD Meeting
- File:Cmap-050516.pdf from May 2005 GMOD Meeting
- File:Gramene-cmap-pag-poster-2005.pdf poster form 2005 Plant and Animal Genomics meeting.
- File:Cmap update sept 03.ppt from September 2003 GMOD Meeting.
- File:CMap Overview.pdf from May 2003 GMOD Meeting.

Contacts and Mailing Lists

	Mailing List Link	Description	Archive(s)
CMap	gmod-cmap	Discussion of **CMap** development, installation problems, *etc.*	Nabble (2010/05+), Sourceforge
	gmod-cmap-commits	Notification of SVN activity for **CMap**.	Sourceforge

CMap in the wild

Public installations of CMap: The following is a partial list of groups using CMap.

- Gramene: Comparative mapping resource for grasses (plant)
- NCGR's Legume Information System: A publicly accessible legume resource that will integrate genetic and molecular data from multiple legume species and enable cross-species comparisons
- BeeBase: The Honey Bee genome database
- BASC: Brassica database
- GrainGenes
- MAGI
- Genome Database for Rosaceae
- Cotton Marker Database

- SCRI Plant Bioinformatics Group
- Pristionchus pacificus Physical Map
- Comparitive Location Database
- Soybean Breeders Toolbox
- Composite Wheat Map
- PeanutMap
- CottonDB
- TropGene
- Populus at Oak Ridge

CMap Development

Development team

Lincoln Stein, Doreen Ware, Ben Faga, Ken Youens-Clark

Current status

No development in several years. Future development at Gramene.org hopes to replace CMap with a lighter, Javascript version.

See also

CMap3D

More on CMap

See Category:CMap

CMap Logo

The CMap logo was created by Kathy Bracken, a participant in the Spring 2010 Logo Program, while a design student at Linn-Benton Community College.

1. ? *Youens-Clark K, Faga B, Yap IV, Stein L, and Ware D. CMap 1.01: a comparative mapping application for the Internet. Bioinformatics 2009 25:3040-2. DOI:10.1093/bioinformatics/btp458 PMCID:PMC2773250 PMID:19648141*

Raw tool data at CMap/tool data