OpenDreamKit Glossary





8 binder	web-application for Jupyter notebook visualization from a
	github repository
	http://mybinder.org/
\mathbf{CAS}	Computer Algebra System
ython	optimising static compiler from Python to C
	http://cython.org
docker	software container platform (alternative to VM)
	https://www.docker.com
findstat	collaborative database for combinatorial statistics
	http://www.findstat.org/
flint	C library for number theory
	http://flintlib.org
₫ Å	CAS for discrete computational algebra
	https://www.gap-system.org
♦ git	a version control system
	https://git-scm.com/
GitHub 💮	website for collaborative software development based on git
	https://github.com
HPC	High Performance Computing
IPython IP[y]:	IPython is a command shell for interactive computing
	https://ipython.org
JOOMMF	Jupyter-OOMMF
	http://joommf.github.io
💢 jupyter	web-application for interactive computations
	http://jupyter.org/
Jupyterhub	configurable multi-user Jupyter server
	https://jupyterhub.readthedocs.io
LinBox	exact linear algebra C++ library
	http://www.linalg.org
LMFDB	L-functions and Modular Forms Database: collaborative
	knowledge and data-base for number theory
	http://www.lmfdb.org/
MathHub	portal for active mathematical documents and formalizations
Moth sb	https://mathhub.info
MMT	Meta-Meta-Tool: data/knowledge/software management
	framework based on OMDoc/MMT

MPIR	C library for multiprecision integer and rational arithmetic.
	Fork of another project, GMP.
	http://mpir.org
nbdime	notebook diffing and merging: Python library for version con-
	trol for Jupyter notebooks
	https://github.com/jupyter/nbdime
	Python library to test Jupyter notebooks
nbval	https://github.com/computationalmodelling/nbval
	Python library for multi-dimensional arrays and linear alge-
	bra. Part of SciPy.
NumPy	https://www.numpy.org
	The On-Line Encyclopedia of Integer Sequences
OEIS OMDoc/MMT	https://oeis.org/
	Open Mathematical Documents / Meta Meta Theories: rep-
	http://uniformal.github.io/doc/index.html
	Object Oriented MicroMagnetic Framework
\mathbf{OOMMF}	http://math.nist.gov/oommf/
OpenMath	extensible standard for representing the semantics of mathe-
	matical objects
	http://openmath.org
PARIB	C library for number theory and command line interface
	https://pari.math.u-bordeaux.fr
? python	programming language and interpreter
	https://www.python.org
Drythnon	Python to C++ compiler for a subset of the Python language,
Pythran	with a focus on scientific computing
	https://pythonhosted.org/pythran
	CAS which aggregates dozens of other softwares and libraries
SIXJE	such as FLINT, GAP, MPIR, PARI/GP, Singular
	http://www.sagemath.org
	web-appliction and website for collaborative work around
SageMathCloud	Sage, Jupyter, LaTeX,
	https://cloud.sagemath.com
SciPy	Python libraries for mathematics, science, and engineering
	https://scipy.org
SCSCP	Symbolic Computation Software Composability Protocol
SIMD	Single Instruction Multiple Data (in-core parallelism)
	CAS for commutative algebra and algebraic geometry
SINGULAR « VM	
	https://www.singular.uni-kl.de
	Virtual Machine: software that emulates a computer system
VDF	inside an operating system Virtual Passanch Environment
VRE	Virtual Research Environment