












OpenDreamKit Glossary



	web-application for Jupyter notebook visualization from a github repository http://mybinder.org/
CAS	Computer Algebra System
	optimising static compiler from Python to C http://cython.org
	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
	CAS for discrete computational algebra https://www.gap-system.org
	a version control system https://git-scm.com/
	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
	web-application for interactive computations http://jupyter.org/
	configurable multi-user Jupyter server https://jupyterhub.readthedocs.io
LinBox	exact linear algebra C++ library http://www.linalg.org
	L-functions and Modular Forms Database: collaborative knowledge and data-base for number theory http://www.lmfdb.org/
	portal for active mathematical documents and formalizations 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 http://mpir.org

nbtime	notebook diffing and merging: Python library for version control for Jupyter notebooks https://github.com/jupyter/nbtime
nbval	Python library to test Jupyter notebooks https://github.com/computationalmodelling/nbval
	Python library for N-dimensional arrays and linear algebra https://www.numpy.org
OEIS	The On-Line Encyclopedia of Integer Sequences https://oeis.org/
OMDoc/MMT	Open Mathematical Documents / Meta Meta Theories: representation format http://uniformal.github.io/doc/index.html
OOMMF	Object Oriented MicroMagnetic Framework http://math.nist.gov/oommf/
OpenMath	extensible standard for representing the semantics of mathematical objects http://openmath.org
	C library for number theory and command line interface https://pari.math.u-bordeaux.fr
	programming language and interpreter https://www.python.org
	Python to C++ compiler for a subset of the Python language, with a focus on scientific computing https://pythonhosted.org/pythran
	CAS which aggregates dozens of other softwares and libraries such as FLINT, GAP, MPIR, PARI/GP, Singular http://www.sagemath.org
	SageMathCloud: web-application and website for collaborative work around Sage, Jupyter, LaTeX, ... https://cloud.sagemath.com
	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 https://www.singular.uni-kl.de
SGE	(Sun) Grid Engine and derivatives: distributed resource manager and batch job scheduler for HPC clusters https://arc.liv.ac.uk/trac/SGE
VM	Virtual Machine: software that emulates a computer system inside an operating system
VRE	Virtual Research Environment