## OpenDreamKit Glossary





<b>⊗</b> binder	web-application for jupyter notebook visualization from a github repository
	http://mybinder.org/
CAS	(Computer Algebra System)
gython	optimising static compiler from Python to C
	http://cython.org
docker	software container platform (alternative to VM)
	https://www.docker.com
flint	C library for number theory
	http://flintlib.org
GAP.	CAS for discrete computational algebra
	https://www.gap-system.org
<b>♦</b> 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	IPython is a command shell for interactive computing,
IP[y]:	mostly Python
	https://ipython.org
JOOMMF	(Jupyter-OOMMF)
	http://joommf.github.io
Jupyter	web-application for interactive computations
	http://jupyter.org/
Jupyterhub	configurable multi-user Jupyter
	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 formaliza-
	tions
MMT	https://mathhub.info Acronym for Meta-Meta Tool
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MPIR	C library for multiprecision integer and rational. Fork of GMP.
	http://mpir.org
nbdime	Python library for merging Jupyter notebooks
	https://github.com/jupyter/nbdime
nbval	Python library to test Jupyter notebooks
	https://github.com/computationalmodelling/nbval
NumPy	Python library for multi-dimensional arrays and linear al-
	gebra
	https://www.numpy.org
OMD	(Open Mathematical Documents)
OOMMF	(Object Oriented MicroMagnetic Framework)
	http://math.nist.gov/oommf/
OpenMath	extensible standard for representing the semantics of math-
	ematical 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
- Python	https://www.python.org
Pythran	Python to c++ compiler for a subset of the Python lan-
<b>3</b>	guage, with a focus on scientific computing
	https://pythonhosted.org/pythran
Ø S⊠E	CAS which aggregates dozens of other softwares and li-
	braries 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	ecosystem of mathematical Python libraries (scipy, numpy
	+ IPython $+$ sympy $+$ matplotlib $+$ pandas
	https://scipy.org
SCSCP	Symbolic Computation Software Composability Protocol
SIMD	Single Instruction Multiple Data (in-core parallelism)
SINGULAR «	CAS for commutative algebra and algebraic geometry
	https://www.singular.uni-kl.de
VM	(Virtual Machine) software that emulates a computer sys-
	tem inside an operating system
VRE	(Virtual Research Environment)