OpenDreamKit Glossary

binder	web-application for jupyter notebook visualization from a github repository `http://mybinder.org/`
CAS	Computer Algebra System
cython	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 4	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 `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 `https://mathhub.info`
MMT	Meta-Meta-Tool: data/knowledge/software management framework based on OMDoc/MMT
MPIR	C library for multiprecision integer and rational. Fork of another project, 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 algebra `https://www.numpy.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`
PARI/GP	C library for number theory and command line interface `https://pari.math.u-bordeaux.fr`
python	programming language and interpreter `https://www.python.org`
Pythran	Python to C++ compiler for a subset of the Python language, with a focus on scientific computing `https://pythonhosted.org/pythran`
sage	CAS which aggregates dozens of other softwares and libraries such as FLINT, GAP, MPIR, PARI/GP, Singular `http://www.sagemath.org`
SageMathCloud	web-appliction and website for collaborative work around Sage, Jupyter, LaTeX, ... `https://cloud.sagemath.com`
SciPy	ecosystem of scientific Python packages (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 system inside an operating system
VRE	Virtual Research Environment