OpenDreamKit Glossary

Anaconda	distribution of scientific softwares `https://www.continuum.io/`
API	Application Programming Interface: specifications of communication protocols between software components
binder	web-application for Jupyter notebook visualization from a github repository `http://mybinder.org/`
CAS	Computer Algebra System
Conda	package management system used in Anaconda `https://conda.io/docs/`
Cygwin	collection of tools which provide Linux functionalities on Windows `https://www.cygwin.com`
cython	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`
GAP 4	CAS for discrete computational algebra `https://www.gap-system.org`
git	a version control system `https://git-scm.com/`
GitHub	website providing service based on gitlab `https://github.com`
gitlab	web-application for repository management based on git `https://about.gitlab.com/`
HPC	High Performance Computing
IPython	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 `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`
nbdime	notebook diffing and merging: Python library for version control for Jupyter notebooks `https://github.com/jupyter/nbdime`
nbval	Python library to test Jupyter notebooks `https://github.com/computationalmodelling/nbval`
NumPy	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`
OpenMP	Open Multi-Processing: API for parallel programming
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, LinBox, MPIR, PARI/GP, Singular `http://www.sagemath.org`
Sphinx	software to create documentation `http://www.sphinx-doc.org/en/stable/`
SMC	SageMathCloud: web-appliction and website for collaborative work around 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)
SINGULAR	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