

Tom Browder ([tom.browder@gmail.com](mailto:tom.browder@gmail.com))  
 Free and Open Source Scientific Software (FOSSS) for Windows (and Linux)  
 Computer Tech 2018

Program Purpose	Name	Link
Operating system (GNU/Linux)	Debian (replace MS Windows)	<a href="https://debian.org">https://debian.org</a>
Operating system (GNU/Linux)	Ubuntu (replace MS Windows)	<a href="https://www.ubuntu.com/desktop">https://www.ubuntu.com/desktop</a>
Operating system (GNU/Linux)	Linux Mint	<a href="https://linuxmint.com">https://linuxmint.com</a>
Version control (distributed)	Git	<a href="https://git-scm.com">https://git-scm.com</a>
Version control (centralized)	Subversion	<a href="http://subversion.apache.org">http://subversion.apache.org</a>
OS (info on GNU/Linux distributions)	Distro Watch	<a href="http://distrowatch.com">http://distrowatch.com</a>
Version control host (FOSS)	Github	<a href="https://github.com">https://github.com</a>
Version control host (FOSS)	Bitbucket (free private Git repos)	<a href="https://bitbucket.org">https://bitbucket.org</a>
Version control host (FOSS)	Source Forge	<a href="http://sourceforge.net">http://sourceforge.net</a>
Graphics (photo and image editing)	Gimp (replace Photoshop)	<a href="https://www.gimp.org">https://www.gimp.org</a>
Graphics (vector drawing)	Inkscape (replace CorelDraw)	<a href="https://inkscape.org">https://inkscape.org</a>
Office suite	Libre Office (replace MS Office)	<a href="http://www.libreoffice.org">http://www.libreoffice.org</a>
Mathematical programming	SciLab (replace MatLab)	<a href="http://www.scilab.org">http://www.scilab.org</a>
Publishing (page layout)	Scribus (replace Adobe PageMaker)	<a href="http://www.scribus.net">http://www.scribus.net</a>
Statistical programing	R-base (replace SAS or SPSS)	<a href="https://www.r-project.org">https://www.r-project.org</a>
Resources (FOSS programs)	GNU Operating System	<a href="https://www.gnu.org/software">https://www.gnu.org/software</a>
Resources (FOSS programs)	Apache	<a href="http://apache.org">http://apache.org</a>
Resiurces (FOSS programs)	Google	<a href="https://google.com">https://google.com</a>
RDBM (relational databases)	SQLite (replace MS Access)	<a href="https://www.sqlite.org">https://www.sqlite.org</a>
RDBM (relational databases)	PostgreSQL (replace Oracle)	<a href="https://www.postgresql.org">https://www.postgresql.org</a>
Sound editing software	Audacity	<a href="https://sourceforge.net/projects/audacity">https://sourceforge.net/projects/audacity</a>
Music composition and notation	MuseScore	<a href="https://musescore.org/en">https://musescore.org/en</a>

Program Purpose	Name	Link
CAD (Computer-Aided Design/Drawing)	BRL-CAD	<a href="https://brlcad.org">https://brlcad.org</a>
CAD (Computer-Aided Design/Drawing)	FreeCaD	<a href="https://www.freecadweb.org">https://www.freecadweb.org</a>
CAD (Computer-Aided Design/Drawing)	OpenSCAD	<a href="http://www.openscad.org/">http://www.openscad.org/</a>
Chemistry software links	ScienceGeekNet	<a href="http://www.sciencegeek.net/Chemistry/chemware/chemware.shtml">http://www.sciencegeek.net/Chemistry/chemware/chemware.shtml</a>
Typesetting language	LaTeX	<a href="https://www.latex-project.org">https://www.latex-project.org</a>
LaTeX editor	TexStudio	<a href="https://www.texstudio.org">https://www.texstudio.org</a>
Mathematical programming	Octave	<a href="https://www.gnu.org/software/octave">https://www.gnu.org/software/octave</a>
Symbolic math solver	Maxima	<a href="http://maxima.sourceforge.net">http://maxima.sourceforge.net</a>
Astronomy program	Stellarium	<a href="http://stellarium.org">http://stellarium.org</a>
Chemistry program	Bkchem	<a href="http://bkchem.zirael.org">http://bkchem.zirael.org</a>
<b>Programming Languages</b>		
scripting	Rakudo Perl 6	<a href="https://perl6.org">https://perl6.org</a>
scripting	Perl 5	<a href="https://perl.org">https://perl.org</a>
scripting	Python	<a href="https://www.python.org">https://www.python.org</a>
scripting	bash	<a href="https://www.gnu.org/software/bash">https://www.gnu.org/software/bash</a>
compiled	GNU C/C++/Fortran/Go/Ada/OC	<a href="https://gcc.gnu.org">https://gcc.gnu.org</a>
Programming for children 8+	Scratch (with Linux Mint distro)	