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Free and Open Source Scientific Software (FOSSS) for Windows (and Linux)  
Computer Tech 2019

| **Program Purpose** | **Name** | **Link** |
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| Operating system (GNU/Linux) | Debian (replace MS Windows) | <https://debian.org> |
| Operating system (GNU/Linux) | Ubuntu (replace MS Windows) | <https://www.ubuntu.com/desktop> |
| Operating system (GNU/Linux) | Linux Mint | <https://linuxmint.com> |
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| Version control (distributed) | Git | [https://git-scm.com](https://git-scm.com/) |
| Version control (centralized) | Subversion | <http://subversion.apache.org> |
| OS (info on GNU/Linux distributions) | Distro Watch | [http://distrowatch.com](http://distrowatch.com/) |
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| Version control host (FOSS) | Github | [https://github.com](https://github.com/) |
| Version control host (FOSS) | Bitbucket (free private Git repos) | [https://bitbucket.org](https://bitbucket.org/) |
| Version control host (FOSS) | Source Forge | <http://sourceforge.net> |
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| Graphics (photo and image editing) | Gimp (replace Photoshop) | [https://www.gimp.org](https://www.gimp.org/) |
| Graphics (vector drawing) | Inkscape (replace CorelDraw) | [https://inkscape.org](https://inkscape.org/) |
| Office suite | Libre Office (replace MS Office) | [http://www.libreoffice.org](http://www.libreoffice.org/) |
| Mathematical programming | SciLab (replace MatLab) | [http://www.scilab.org](http://www.scilab.org/) |
| Publishing (page layout) | Scribus (replace Adobe PageMaker) | <http://www.scribus.net> |
| Statistical programing | R-base (replace SAS or SPSS) | <https://www.r-project.org> |
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| Resources (FOSS programs) | GNU Operating System | <https://www.gnu.org/software> |
| Resources (FOSS programs) | Apache | <http://apache.org> |
| Resiurces (FOSS programs) | Google | <https://google.com> |
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| RDBM (relational databases) | SQLite (replace MS Access) | [https://www.sqlite.org](https://www.sqlite.org/) |
| RDBM (relational databases) | PostgreSQL (replace Oracle) | <https://www.postgresql.org> |
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| Sound editing software | Audacity | <https://sourceforge.net/projects/audacity> |
| Music composition and notation | MuseScore | <https://musescore.org/en> |
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| CAD (Computer-Aided Design/Drawing) | BRL-CAD | <https://brlcad.org> |
| CAD (Computer-Aided Design/Drawing) | FreeCaD | <https://www.freecadweb.org> |
| CAD (Computer-Aided Design/Drawing) | OpenSCAD | <http://www.openscad.org/> |
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| Chemistry software links | ScienceGeekNet | <http://www.sciencegeek.net/Chemistry/chemware/chemware.shtml> |
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| Typesetting language | LaTeX | <https://www.latex-project.org> |
| LaTeX editor | TexStudio | <https://www.texstudio.org> |
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| Mathematical programming | Octave | <https://www.gnu.org/software/octave> |
| Symbolic math solver | Maxima | <http://maxima.sourceforge.net> |
| Astronomy program | Stellarium | <http://stellarium.org> |
| Chemistry program | Bkchem | <http://bkchem.zirael.org> |
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| **Programming Languages** |  |  |
| scripting | Rakudo Perl 6 | <https://perl6.org> |
| scripting | Perl 5 | <https://perl.org> |
| scripting | Python | [https://www.python.org](https://www.python.org/) |
| scripting | bash | <https://www.gnu.org/software/bash> |
| compiled | GNU C/C++/Fortran/Go/Ada/OC | <https://gcc.gnu.org> |
| Programming for children 8+ | Scratch (with Linux Mint distro) |  |
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