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Free and Open Source Scientific Software (FOSS) for Windows (and Linux)  
Computer Tech 2018  
IMPORTANT RESOURCES FREE REPLACEMENT FOR EXPENSIVE PROGRAM

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| **Program Purpose** | **Name** | **Link** |
| Operating system (GNU/Linux) | Debian | <https://debian.org> |
| Operating system (GNU/Linux) | Ubuntu **(replace Microsoft Windows**) | <https://www.ubuntu.com/desktop> |
| Version control/backup/collaboration | **Github** | [https://github.com](https://github.com/) |
| Version control/backup/collaboration | **Bitbucket (free private Git repositories)** | [https://bitbucket.org](https://bitbucket.org/) |
| 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 (branch from OO; 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/InDesign)** | <http://www.scribus.net> |
| Resources (Linux) | Freecode (no longer updated as of 2014) | <http://freecode.com> |
| Resources (programs for all OSs) | Source Forge | <http://sourceforge.net> |
| Resources (programs) | GNU Operating System | <https://www.gnu.org/software> |
| Resources (programs) | Apache | <http://apache.org> |
| Search engine, other apps | Google | <https://google.com> |
| Version control (centralized) | Subversion | <http://subversion.apache.org> |
| Version control (distributed) | Git | [https://git-scm.com](https://git-scm.com/) |
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| OS (info on GNU/Linux distributions) | **Distro Watch** | [http://distrowatch.com](http://distrowatch.com/) |
| RDBM (relational databases) | SQLite (replace Microsoft Access) | [https://www.sqlite.org](https://www.sqlite.org/) |
|  | PostgreSQL (replce Oracle | <https://www.postgresql.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++/ObjectiveC/Fortran/Ada/Go | <https://gcc.gnu.org> |
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