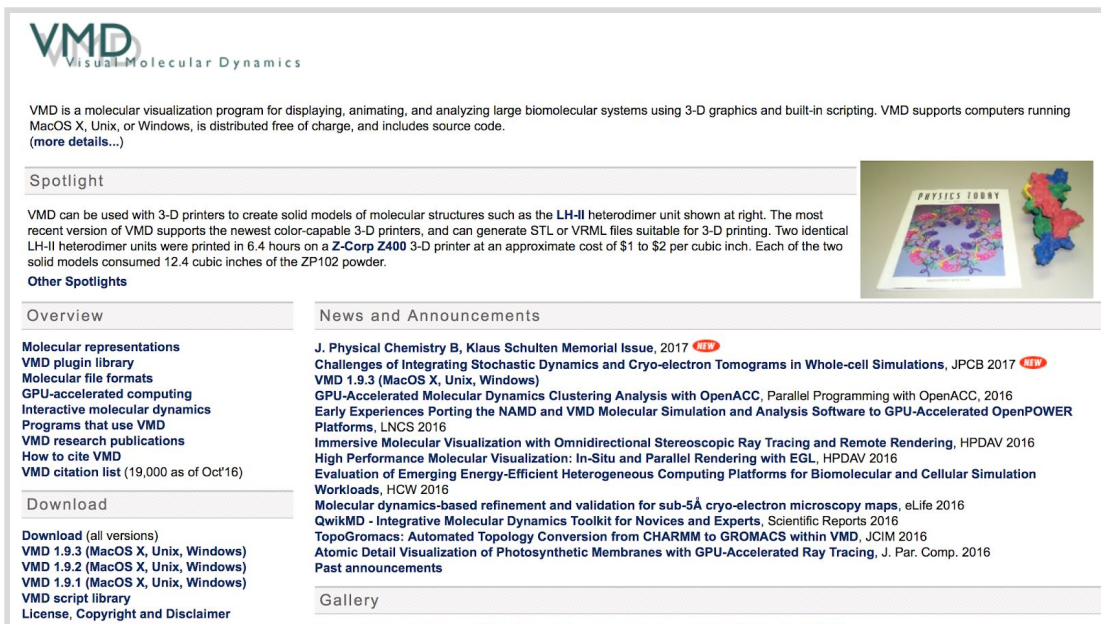


VMD Installation Guide

1. Go to VMD website <http://www.ks.uiuc.edu/Research/vmd/>
2. Click **download**



VMD
Visual Molecular Dynamics

VMD is a molecular visualization program for displaying, animating, and analyzing large biomolecular systems using 3-D graphics and built-in scripting. VMD supports computers running MacOS X, Unix, or Windows, is distributed free of charge, and includes source code.
([more details...](#))

Spotlight

VMD can be used with 3-D printers to create solid models of molecular structures such as the **LH-II** heterodimer unit shown at right. The most recent version of VMD supports the newest color-capable 3-D printers, and can generate STL or VRML files suitable for 3-D printing. Two identical LH-II heterodimer units were printed in 6.4 hours on a **Z-Corp Z400** 3-D printer at an approximate cost of \$1 to \$2 per cubic inch. Each of the two solid models consumed 12.4 cubic inches of the ZP102 powder.

Other Spotlights

Overview | **News and Announcements**

Molecular representations
VMD plugin library
Molecular file formats
GPU-accelerated computing
Interactive molecular dynamics
Programs that use VMD
VMD research publications
How to cite VMD
VMD citation list (19,000 as of Oct'16)

Download

Download (all versions)
VMD 1.9.3 (MacOS X, Unix, Windows)
VMD 1.9.2 (MacOS X, Unix, Windows)
VMD 1.9.1 (MacOS X, Unix, Windows)
VMD script library
License, Copyright and Disclaimer

News and Announcements

J. Physical Chemistry B, Klaus Schulten Memorial Issue, 2017 **NEW**
Challenges of Integrating Stochastic Dynamics and Cryo-electron Tomograms in Whole-cell Simulations, JPCB 2017 **NEW**
VMD 1.9.3 (MacOS X, Unix, Windows)
GPU-Accelerated Molecular Dynamics Clustering Analysis with OpenACC, Parallel Programming with OpenACC, 2016
Early Experiences Porting the NAMD and VMD Molecular Simulation and Analysis Software to GPU-Accelerated OpenPOWER Platforms, LNCS 2016
Immersive Molecular Visualization with Omnidirectional Stereoscopic Ray Tracing and Remote Rendering, HPDAV 2016
High Performance Molecular Visualization: In-Situ and Parallel Rendering with EGL, HPDAV 2016
Evaluation of Emerging Energy-Efficient Heterogeneous Computing Platforms for Biomolecular and Cellular Simulation Workloads, HCW 2016
Molecular dynamics-based refinement and validation for sub-5Å cryo-electron microscopy maps, eLife 2016
QwikMD - Integrative Molecular Dynamics Toolkit for Novices and Experts, Scientific Reports 2016
TopoGromacs: Automated Topology Conversion from CHARMM to GROMACS within VMD, JCM 2016
Atomic Detail Visualization of Photosynthetic Membranes with GPU-Accelerated Ray Tracing, J. Par. Comp. 2016
Past announcements

Gallery

3. Choose the platform (MacOS X, Windows, or Linux) that suits your computer

Software Downloads

Download VMD:

VMD is a molecular visualization program for displaying, animating, and analyzing large biomolecular systems using 3-D graphics and built-in scripting. Visit the **VMD website** for complete information and documentation.

Selecting an archive below will lead to a user registration and login page. Your download will continue after you have registered or logged in.

Version 1.9.4 LATEST ALPHA (2017-12-21) Platforms:

Latest pre-release ALPHA test version

- **LINUX_64 OpenGL, CUDA, OptiX, OSPRay** (Linux (RHEL 6.7 and later) 64-bit Intel/AMD x86_64 SSE, with CUDA 9.x, OptiX, OSPRay)
- **MacOS X OpenGL (32-bit Intel x86)** (Apple MacOS-X (10.10.x or later) with hardware OpenGL (native bundle))

Version 1.9.3 (2016-11-30) Platforms:

We recommend that all users upgrade to VMD 1.9.3

- **Source Code**
- **LINUX_64 OpenGL, CUDA, OptiX, OSPRay** (Linux (RHEL 6.7 and later) 64-bit Intel/AMD x86_64 SSE, with CUDA 8.x, OptiX, OSPRay)
- **LINUX_64 Text-mode w/ EGL** (Linux (RHEL 6.7 and later) 64-bit Intel/AMD x86_64 w/ SSE, Text-mode w/ EGL)
- **LINUX_64 Text-mode** (Linux (RHEL 6.7 and later) 64-bit Intel/AMD x86_64 w/ SSE, Text-mode)
- **LINUX MIC-AVX512 Text-mode** (Linux (RHEL 6.7 and later) 64-bit Intel Xeon Phi MIC w/ AVX-512, Text-mode, OSPRay)
- **LINUX MIC-AVX512, OpenGL, CUDA, OptiX, OSPRay** (Linux (RHEL 6.7 and later) 64-bit Intel Xeon Phi MIC w/ AVX-512, OpenGL, CUDA7.5, OptiX, OSPRay)
- **LINUX OpenPOWER Text-mode** (Linux 64-bit IBM OpenPOWER w/ VSX, Text-mode)
- **MacOS X OpenGL (32-bit Intel x86)** (Apple MacOS-X (10.4.7 or later) with hardware OpenGL (native bundle))
- **Windows OpenGL, CUDA** (Windows XP/Vista/7/8/10 (32-bit) with OpenGL and CUDA)
- **Windows OpenGL** (Microsoft Windows XP/Vista/7/8/10 (32-bit) using OpenGL)
- **NCSA Blue Waters (Cray XK7 w/ OpenGL)** (NCSA Blue Waters (Cray XK7) MPI, CUDA, OpenGL Pbuffers, TachyonL-OptiX)
- **ORNL Titan (Cray XK7)** (ORNL Titan (Cray XK7) MPI, CUDA, TachyonL-OptiX)
- **CSCS Piz Daint (Cray XC50 w/ EGL)** (CSCS Piz Daint (Cray XC50) MPI, CUDA, EGL Pbuffers, TachyonL-OptiX)

4. Registration/Login before download

Registration/Login

You will need a username and password to download software.

If this is your first download, please choose a username and password to register.
Current NAMD or VMD users, please enter your existing username and password.

Username:

Password:

Your download will continue after you have registered or logged in.

Enter a *username* and desired *password* and then click “*Continue with registration or download*”

5. Fill up all the information below (an example is shown, you should fill up yours)

New User Registration

New User Registration for 'victortsai':

First and Last Name:

Email Address:

Affiliation:

☒ Academic ☐ Government ☐ Industrial ☐ Other (specify)

The number of people using TCBG software at my site is:
☐ 1 ☐ 2-4 ☒ 5-10 ☐ 11-20 ☐ 21 or more

I use TCBG software primarily for:

☒ Research ☐ Teaching ☐ Commerce ☐ Personal

The work I do with TCBG software is funded (at least partially) by NIH:

☐ Yes ☒ No

Re-enter password for confirmation:

Click “**Register**”

Software Downloads

Welcome! Account created for 'victortsai'.

Please remember your password for future downloads.

You may avoid logins for 6 months by saving a cookie on your browser: [Save Cookie](#)

VMD 1.9.3 for MacOS X (Intel x86) using native OpenGL

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6. The download file would be an executable: .dmg (for Mac) or .exe (for Windows). Double click it and an installation window will pop up. Follow the instructions and you should be able to complete the installation. For Linux user, you will need to use command line to install VMD (see README in the folder)
7. That's it! Enjoy VMD graphics