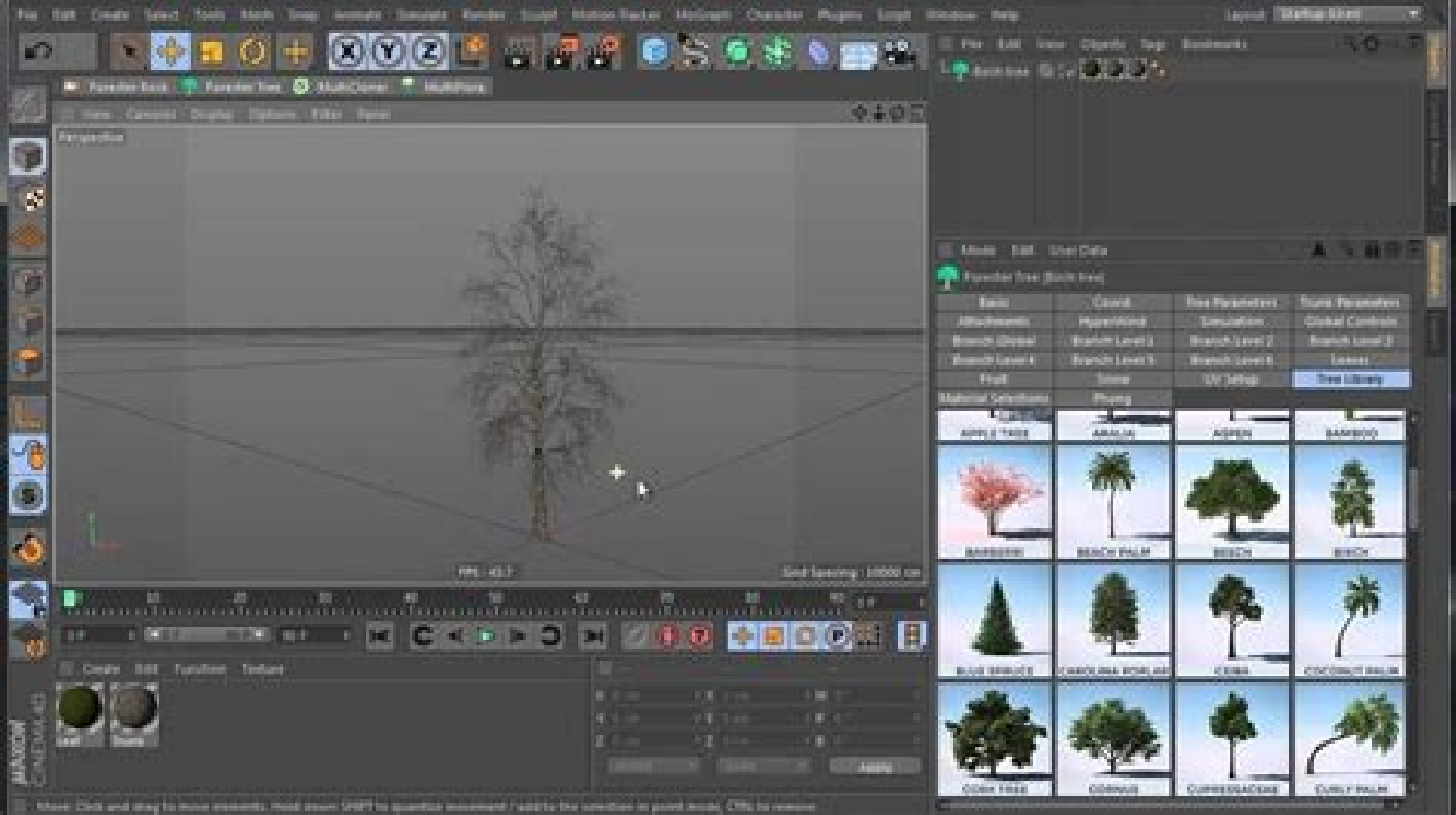
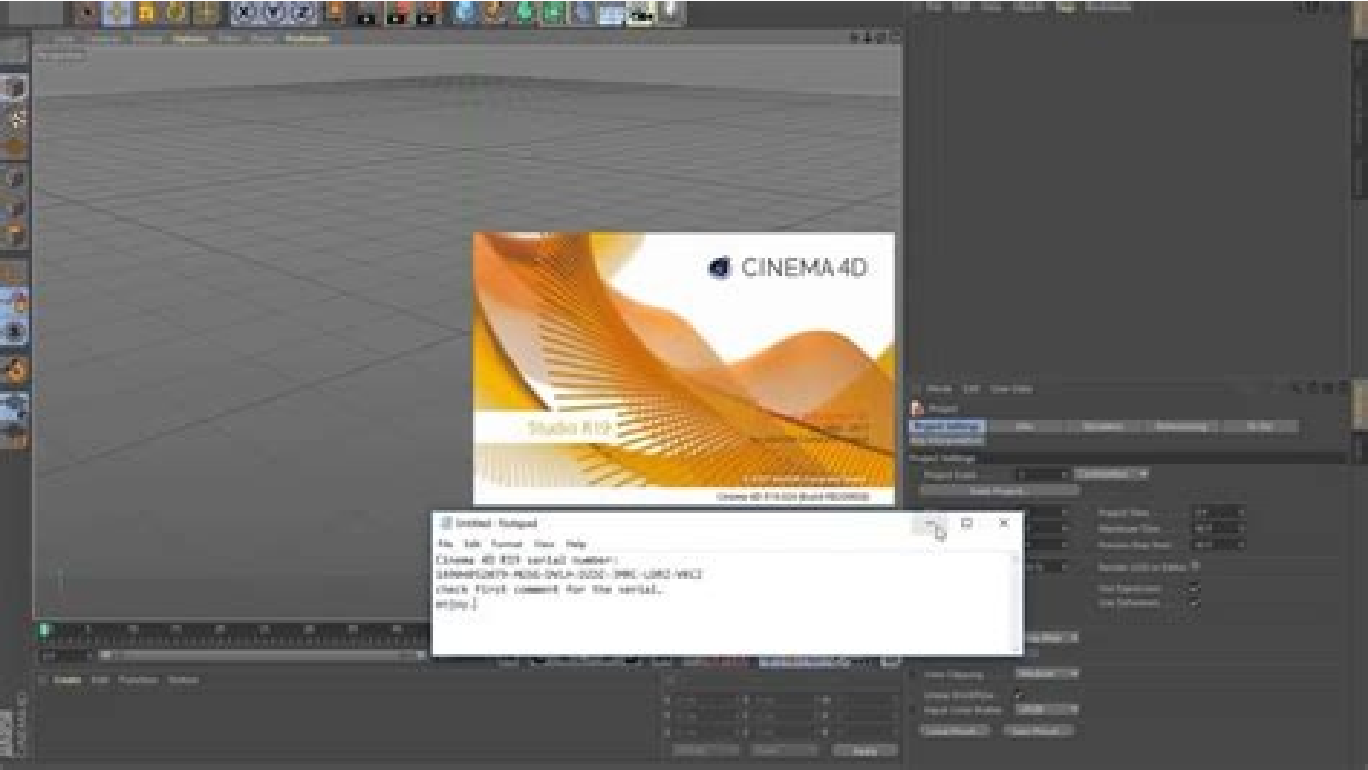


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autoPACK: INSTALLATION for Cinema 4D (includes autoPack & ePMV in one package)OverviewThis installation includes uPy, ePMV, & autoPackThis early installation for autoPack is an alpha version- use at your own risk and save frequently.uPy (ubiquitous Python API) enables ePMV and autoPack to work in Autodesk 3ds Max, Maya, Cinema 4D, SoftImage, Blender and DejaVu by writing only one plugin instead of >5. ePMV (embedded Python Molecular Viewer) provides all of the capabilities of molecular graphics and molecular mechanics software directly in your C4D GUI.autoPack positions 3D geometries into, onto, and around volumes with minimal to zero overlap. autoPack mixes several packing approaches and procedural growth algorithms. autoPack can thus place objects with forces and constraints to allow a high degree of control ranging from completely random distributions to highly ordered structures.cellPack is a specialization of autoPack that generates probabilistic 3D models of large sections of cells that can contain dozens to trillions+ of molecules. It can position these molecules to recapitulate observed data where available and can further optimize the molecular interactions on a local level as each molecule is placed into a mesoscale model.If you have experience with 3D software, especially with C4D, the manual installation should take less than 3 minutes on a Mac and the one-step installer should take less than 6 minutes. If you encounter difficulties, please visit the forum to search for answers or ask questions. PrerequisitesUninstall any previous version of ePMV (and autoFill and autoPack)Navigate to your C4D preferences as described in step II in the Installation of the uPy... section below Move the ePMV folder from .../plugins to your trash (or just pull it out into the MAXON folder in case you want to revert to it later)Install X11 for Mac. X11 - XQuartzInstallation (C4D r13-22) of the uPy Plugin Package with ePMV & autoPackOpen Cinema 4DLocate your Cinema4D preferences folderTo ensure you have the correct preferences folder:In Cinema 4D's menu, go to Edit->PreferencesClick [Open Preferences Folder] buttonYou'll see the Preferences window now open in your Finder with a path/name similar to:/Users/Library/Preferences/MAXON/CINEMA 4D R16.AB12BC3E/ (the number at the end will be different and may also say R13 through R19)Install the pluginFirst make sure you have X11-XQuartz installed (if you have recently updated your OS to Catalina (10.15.x or higher), you may need to reinstall XQuartz to get ePMV to work- see Troubleshooting below)Open Spotlight or a finder window and search for "quartz". Make sure XQuartz appears. You don't need to launch XQuartz. It is typically installed in your /Applications/Utilities/XQuartz.app folder.If you don't have XQuartz, or want to update it: (see instructions under Prerequisites above (if autoPACK seems to load, but ePMV fails, missing XQuartz is likely the problem)Download the correct zipped package for your system from one of these links:Unzip the downloaded folderDrag & drop the contents (two folders called ePMV and upy autoPack) into the .../plugins/ folder of your Cinema4D preferences folder (get correct folder by following step II above):Launch ePMV, test it, then launch autoPACK and test it as described belowYou'll find the ePMV plugin under to top menu items:r21-22: C4Dmenu: Extensions/ePMVr13-20: C4Dmenu: Pluginsr12: C4Dmenu: PluginsTroubleshootingePMV & autoPack fail to load when running C4D in Mac OS Catalina (version 10.15.x or newer) for all versions of C4D (tested on r19-22)If alerts popup when you open Cinema 4D after installation that look like: both ePMV and autoPACK will not be available in your Plugins or Extensions menu. Confirm this is the problem by opening the Python console and searching for lines that say "ImportError:cannot import name multiarray". Other files may be missing as well.Nick Woolridge has provided the following explanation and solution... this is the aggressive gatekeeper function objecting to some of ePMV/Autopack's binaries. If you are comfortable using the terminal, use this command: sudo xattr -dr com.apple.quarantine /path/to/folder Replace the "/path/to/folder" bit with the path to your installation of ePMV (in the C4D prefs folder). The easiest way to do this is to copy this (make sure not to copy the paragraph return): sudo xattr -dr com.apple.quarantine And paste it into the terminal window.Then drag in the relevant folder from the finder (the easiest would be to drag in the "plugins" folder from the prefs folder; make sure there is a space between "com.apple.quarantine" and the folder path).This will append the appropriate path to the command. Hit return, and then enter your password when prompted. This will remove the plain from quarantine. Restart Cinema 4D and you should be able to see autoPACK and possible ePMV in the plugins or extensions menu. If you only see autoPACK, then you likely need to reinstall X11 as described below.autoPACK loads, but ePMV fails to load when running C4D in Mac OS Catalina (version 10.15.x or newer) for all versions of C4D (tested on r19-22) like You may need to reinstall X11 for Mac, because the locations of certain libraries have changed. Confirm the problem by opening the Python console and searching for lines that mention "... x11..." and unloaded libraries as in ".../plugins/ePMV/mgl64/MGLToolsPkgs/pyglf/.glf.so, 2): Library not loaded: /usr/X11/lib/libGLU.1.dylib", etc.Just download and run the .dmg installer: X11 - XQuartzOPTIONAL:Complete basic tutorials for ePMV and autoPackIf you are new to ePMV or new to molecular graphics, please complete the Basics Tutorial/Survey hybrid. This will guide you through all of the common functions/buttons of the ePMV GUI and simultaneously introduces you to the science and the data types ePMV can work with.This alpha version of autoPack will improve several times each week and the tutorials will expandFor now, follow the first steps and then the basic tutorials then experiment on your own. If you find a bug, check the forum to see if its already been fixed, and if not, let us know.Update your ePMV and autoPack software frequently to get the latest performance, stability and functionality enhancements with just a couple clicks directly from within the GUIs!You should add buttons to your startup palette:C4D menu: Window>Customize>CustomizePalettes: In the Customize Commands window type ePMV or auto in the Filter to find the apps then drag and drop each icon where you'd like it.C4D menu: Window>Customize>SaveAsStartupLayout Softonic reviewCINEMA 4D is a complete and complex solution for 3D video animation that gives you total power and control throughout the whole design and creation process. CINEMA 4D provides all you need to create high-end 3D pictures and animations. It consists of different modules according to your design needs. There are 8 different ones in total although each has to be purchased separately in addition to the main package.It should be noted from the start that CINEMA 4D is a highly technical and professional package that isn't suitable for those new to 3D animation or modeling. It's designed for professionals in film making, TV, advertising, science, architecture and other fields that require professional results.The speed that CINEMA 4D can manipulate and render animations is one of its strongest points. Certainly those used to working with Maya may notice significant speed improvements although this is obviously also dependent on your working on a 64-bit Mac. The customization modules are also one of the strongest aspects of CINEMA 4D allowing you to customize the package according to whether you are animating for film, architecture, 3D modeling etc.For all those that aren't impressed with Maya and need a professional 3D animation suite, CINEMA 4D is the complete package.Many changes - details available here: changes - details available here: s reviewCinema 4D R17 makes the easiest-to-use professional 3D software more efficient than ever before. New tools as well as expanded and completely reworked features help you turn your ideas into reality even quicker and with less effort. The improved workflow helps you meet the tightest deadlines. We've even gone so far as to re-invent the line!Workflow That Simply WorksWork Fast, Play MoreSmooth workflows bring creativity to life. That's why workflow is front and center in Cinema 4D Release 17.The revolutionary Take System will save precious time. The new Color Chooser does all those things you always wanted with color, as well as things you didn't even know you wanted! Integration with Sketchup and the Houdini Engine make Cinema 4D your ideal hub. Let creativity flow.Onboard spline tools with real-time feedbackRelease 17 comes with a complete splines toolkit - no need to switch to an external tool. Easily create and modify splines with Cinema 4D's new Pen tool, sketching, smoothing, arc tool, and boolean commands.Intuitive and efficient organic modelingDozens of new features and improvements in Cinema 4D Release 17 make sculpting a true delight. Use Sculpt to PoseMorph, for example, to speed up character animation. Easily sculpt hard-surface models with Edge Detection. Release 17 makes sculpting in Cinema 4D easier than ever.Better variability and usability with the new Variation and Formula ShadersRelease 17 offers new and expanded shaders to increase usability and performance. With the new Material Override function you can easily override specific channels of selected materials to create clay or matte renders.Greatly improved Motion Tracking featuresIntegrating 3D assets into video just got easier. The Motion Tracking feature in Cinema 4D has been enhanced by adding the ability to correct lens distortion and by adding an intuitive tool for quickly eliminating problem track points.

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