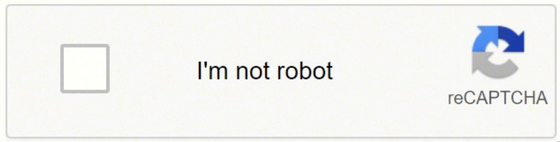

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You can’t perform that action at this time. You signed in with another tab or window. Reload to refresh your session. You signed out in another tab or window. Reload to refresh your session. Published on July 26, 2021 by Carlota V. As many of you will know, in order to get a piece 3D printed, you need a slicing software, more commonly known as a slicer. The slicer converts the 3D model into a G-code file that will provide the 3D printer with all the necessary instructions for printing. Cura is a slicing software developed by David Braam in 2014 for this purpose – it was later acquired by Ultimaker. It is an open-source software, probably the most widely used in the global additive manufacturing market. In 2019, Cura had 600,000 users and is estimated to be used for more than 2 million printing jobs every week. But what makes Cura so popular? One of the main benefits of Cura is its ease of use, support for different file formats, and compatibility with many 3D printers. Supported file formats are STL, OBJ, X3D, and 3MF. Although Cura is part of the Ultimaker ecosystem, printers from other manufacturers can also use it. The software is not only 100% free of charge but is also available in 15 languages so that users worldwide can use it as easily as possible. Another feature that contributes to its popularity is the fact that it is compatible with the most common operating systems, Windows, Mac, and Linux. Note that Cura has been certified for Windows and macOS platforms, guaranteeing significant additional security. How Does the Software Work? Cura has a simple interface that allows you to choose between two settings right from the start: the recommended mode and custom mode. The recommended setting is particularly suitable for achieving the best result in a few clicks – there is no need to make manual changes to the settings. However, the software is able to choose the optimal orientation of the part to save time for the user, but also the filling rate, the generation of optimized supports to minimize post-processing, layer thickness, etc. A good option when you’re just getting started! The custom setting allows the user to choose from more than 400 different setting options. In addition to the basic parameters such as the addition of support structures or the amount of filling required, other options can easily be added. Users can also get an idea of how Cura will cut out the model using the preview mode. Ergonomic, it improves the user experience. It is also possible to select the filament used as a profile before printing so that the parameters are automatically changed accordingly. In its latest version, for example, Cura updated the profile for PETG. You can get an idea of the profiles and some of the setting options in this video: Cura Goes Beyond Slicing Being open-source and widely used around the world, Cura is constantly evolving. Users can access Cura’s cloud which allows them to send printing instructions directly to printers without having to use traditional storage media such as a USB stick. Users can also access their projects anywhere, all they need is a free account. Note that “Professional” and “Excellence” profiles are also available, allowing access to additional features. For example, via these two profiles, the user can now import their CAD files into Cura, simplifying the work of preparing the model. Via Cura Connect, printing can be sent to several printers at the same time, which then work simultaneously. The tool allows you to plan and manage different print jobs on several Ultimaker 3D printers also. The interface offers a follow-up of the current print jobs, possible maintenance operations, etc. The Cura Cloud will also give you access to a number of plug-ins. The most widely used is probably the one that allows you to push CAD data directly into the slicer from software such as SOLIDWORKS, AutoCAD, or Siemens NX. No need to change the formats, everything is integrated with a single tool. You should also know that Cura integrates different 3D printing profiles depending on the material chosen thanks to the Material Alliance Program launched in April 2018: Ultimaker is currently working with more than 80 filament manufacturers worldwide, has tested their materials, and offers pre-set profiles accordingly (more than 100 today). Among its partners, we can cite the French manufacturer Kimya: if you want to 3D print a part with its ABS-ESD, Cura will offer you optimal settings. You are of course free to modify them if you wish. Finally, note that a large community of active users exists today, which makes it possible to share best practices and recommendations regarding the use of Cura. The forum is enriched every day which can greatly improve your experience. Are you using Cura? Do you have more questions about using Cura for 3D printing? Let us know in a comment below or on our Facebook and Twitter pages what you think! Don’t forget to sign up for our free weekly Newsletter, with all the latest news in 3D printing delivered straight to your inbox! UltimakerAt the heart of Ultimaker Cura is its powerful, open-source slicing engine, built through years of expert in-house development and user contributions.Intent profiles print specific applications at the click of a buttonRecommended profiles tested for thousands of hours ensure reliable results‘Custom mode’ gives over 400 settings for granular controlRegular updates constantly improve features and printing experienceIf you own a 3D printer, software matters. Get the most from your printer with software designed to suit your workflow.Seamless integration with all Ultimaker productsCAD plugin integration with SolidWorks, Siemens NX, Autodesk Inventor, and moreCompatible file types: STL, OBJ, X3D, 3MF, BMP, GIF, JPG, PNGManufacturing doesn’t need to be complicated. We design our software so anyone can use it – both experienced or rookie 3D printer users.Prepare your 3D model for print in minutes with recommended settingsSimply choose speed and quality settings, and you can start printingUltimaker Cura is free and open source softwareBeing open and collaborating is in our DNA. Now we bring this to the professional 3D printing market with the Ultimaker Marketplace.Download material profiles from leading brands for your applicationAvoid manual setup when using third-party materialsDownload useful plugins to customize the print preparation experience, star-rated by our community Ultimaker Cura Enterprise delivers stability and security with features that are tailor-made for businesses.Utimaker Cura Enterprise can be deployed, configured, and managed with cross-platform systems distributionUltimaker Cura Enterprise receives two updates a year. These are thoroughly tested by our community and ensure the most stable desktop application. We support updates for 12 months after release (including security patches and bug fixes)Each release of Ultimaker Cura Enterprise is independently scanned, tested, and analyzed for vulnerabilities. We publish a summary of that report and we commit to continuously improving securityReady to get started? Watch our six-minute introduction to learn your way around the key features of Ultimaker Cura. Got a question about 3D printing software, or want to share your knowledge? We have a community of over 20,000 members waiting to hear from you.Our monthly Ultimaker Cura newsletter keeps you informed about latest releases, plus free 3D printing tips and resources – all straight to your inbox. Our award-winning 3D printers are robust, reliable, and easy to use. They deliver quality parts time and again. Designed and tested to run 24/7, they allow you to achieve the results you need more quickly and easily.Learn about our 3D printersTrusted by millions of users across 14 languages, Ultimaker Cura slices your model and integrates with any workflow through Marketplace plugins. Then scale production and digital distribution with Ultimaker Digital Factory.Download the PDFUltimaker offers the widest material choice on the market. Through our Material Alliance, choose the perfect filament for your application – from advanced polymers to carbon fiber composites.Learn about our materialsWherever you are in the world, Ultimaker support is close by. Our global network of service partners offer professional installation, training, and maintenance in your language and time zone.Learn about our support 3D Printing 3D Printers Hi, I am new to 3D printing, received Anet A8 printer for Xmas, and after assembling it I have been getting good quality prints until now! Computer running Windows 10 Part designed in FreeCad 0.16 Sliced in Cura 14.07 I have a later version of Cura but 14.07 seems the most compatible with the printer, I print directly from a SD card the printer is not connected to the computer. This morning I attempted to print this part: [img] /img] [img] /img] This is the resulting print, there was a bit of stringing of filament during travel but the main problem was it occasionally deposited great globs of plastic at random, some I managed to pick off with tweezers before the extruder got back to that position, but not always. [img] /img] I had to pause printing once when it started banging against a lump and dislodged the fan shroud, I ground off the lumps and recommenced printing went Ok for about an hour then it happened again, this time the extruder hit with enough force to shift the carriage out of alignment and I had to abort the print. [img] /img] [img] /img] The photos show the Cura settings and the results of the printing, can anyone provide any advice as to the cause of this problem and how to go about curing it. This is the beginning of the G code File. [img] /img] Thanks for your help! Max Hi Ausimax, congratulations to your Anet A8 Its a great printer if you take care of it. I´m not an expert but I would check the Retract Settings as well as Extrusion Multiplier First. For me it looks like a Overextrusion. Try to lower the Extrusion Multiplier a little bit and check how your Retract Settings are set. Usually Stringing means your retract is to low. It could be that you have set a low retract followed by an to high extrusion to compensate the retract. Regards David In addition, is your nozzle screwed in correctly? You can get this blob if it leaks and eventually deposits the leaking plastic on to the print 1 Like Very good point. Now since you wrote that I remember I had that one time in the past. The nozzle was a bit loose and the Filament started to come out on the Top side of the Heatblock and from time to time some Filament drops felt down. You can also see that very good when you change the Color of your Filament and you find some Spots from the previous Color in your Printouts. In that case I can only recommend you to replace the nozzle + heatbreak + heatblock as it is pretty impossible to clean them from melted PLA. 1 Like Hi folk thanks for your replies. Kevin: Yes at the time the nozzle was tight at the time I had just cleaned it after a filament break. David : This is the first time I have printed using supports and was not too sure what was going on I have not had a problem with stringing in previous prints , the retraction was set to 4.5mm and most I have read seem to suggest 3.5 being sufficient the extrusion settings were the same as I have use before. I am considering lowering the extruder by about 5 deg and see if that helps, I also found when I came to reseresetting and re leveling the bed that the strike had broken the throat tube. That presented a few difficulties as it didn’t want to come out of the heat block, tried heating the unit with a heat gun but every time I tried to unscrew the tube collapsed, in the end I had to drill the tube out. Got all that sorted but in the process of refitting I decided to try and do something about that PIA of the fan and heat sink holding the whole show together, and the struggle of trying to compress the spring and line things up at the same time to refit it, besides it make it a pain if you just want to clean the feed mechanism. So with all that I have not had another try at printing the part yet, just about set to go now so I will adjust a few settings and see what transpires. Thanks for your help, will let you know the result in due course. Regards, Max Update to previous Post, started another print, settings virtually the same only lowered extruder temp to 205 deg, and had about the same result, only printed the first couple of layers and things started going haywire. [Imgur]([Imgur]([Imgur](I have started a print of a previously printed item and it is printing perfectly, and all the settings are the same except the temp is 220, must admit it has me foxed, maybe my design files are the problem? Max Hallo David, du hast mir am 27.02.2018 ein paar Spielzeug-Teile gedruckt. Es war laut meinen E-Mails die Order-Nummer 6570721. Bei 3DHubs jat sich ja einiges geändert, so dass ich die Bestellung nicht erneut ausführen kann. Bietest du noch Druck-Dienste an? Wenn ja, auf welcher alternativen Plattform? VG Grüße Hi Ausi, Anet A8 is a great 3D printer and seldom offers troubles unless the print settings are not too appropriate. And in your case, I bet the 3d printer’s nozzle is not at an appropriate position. In other words, the distance between the nozzle and the printed object might be too less, so as to lead to blobbing. And when the distance turns to be more than the required number, the printed object can cause stringing. You can find about the appropriate distance from the user manual of your 3D printer.

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