

COMPUTER GRAPHICS C VERSION 2ND EDITION

FAQs about COMPUTER GRAPHICS C VERSION 2ND EDITION

What is computer graphics in C? Graphics in C programming have played a significant role in the development of computer applications. Graphics programming involves creating and manipulating visual elements on a computer screen, utilizing programming languages specifically designed for this purpose.

What is computer graphics pdf? Computer graphics is an art of drawing pictures on computer screens with the help of programming. It involves computations, creation, and manipulation of data.

What are graphics 2 types? There are two types of computer graphics: raster graphics, where each pixel is separately defined (as in a digital photograph), and vector graphics, where mathematical formulas are used to draw lines and shapes, which are then interpreted at the viewer's end to produce the graphic.

What is computer graphics and its types? Computer Graphics is the creation and manipulation of images or pictures with the help of computers. • There are two types of computer graphics : 1) Passive Computer Graphics (Non-interactive Computer. Graphics) 2) Active Computer Graphics (Interactive Computer Graphics)

Can you use C for graphics? Graphics programming in C opens up a realm of creative possibilities, allowing developers to generate visual representations, animations, and interactive applications. Whether creating simple graphics or sophisticated user interfaces, mastering the principles of graphics programming is essential.

What is graphic character in C? Characters that have graphical representation are known as graphic characters. The `isgraph()` checks whether a character is a graphic character or not. If the argument passed to `isgraph()` is a graphic character, it returns a non-zero integer. If not, it returns 0.

What is my PC graphics? What graphics card do I have? Here's how to find out info on what graphics card you have: In the desktop search bar, start typing Device Manager and select it when the option appears. Click the arrow next to Display adapters and the name and model of your GPU will appear right below.

What is computer graphics software? Graphic design software refers to apps and programs that graphic designers use to create, edit, and manipulate digital images. They allow designers edit and resize images, produce original illustrations, combine text, color, and shapes, and bring their vision to life.

What is computer graphics easy? Computer graphics refers to a technology that generates images on a computer screen. It's used in digital photography, film and television, video games, and on electronic devices and is responsible for displaying images effectively to users.

What is graphics mode in C? graphicsMode : It is a pointer to an integer that specifies the graphics mode to be used. If *gdriver is set to DETECT , then initgraph sets *gmode to the highest resolution available for the detected driver. driverDirectoryPath : It specifies the directory path where graphics driver files (BGI files) are located.

What is graphics in programming? Graphical Programming Defined The graphical approach to programming allows a computer to process spatial representations in two or more dimensions. In contrast to text-based programming, which uses lines of code, graphical programming replaces text with pictures or symbols of physical things.

What does graphics mean in computer terms? Graphics refers to visual images or designs created or displayed on a screen or printed on a physical medium. Graphics are used to communicate information, convey ideas, or enhance the visual appeal of various forms of media.

What are C curves in computer graphics? The C curve replaces lines with two shorter lines at 90 degrees to form triangles at each iteration. 26 of 30.

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Reference of What is computer graphics in C?

1. Graphics and recreational software. Images that are generated by a computer are called computer graphics. Examples are photographs, drawings, line art, mathematical...
2. Graphics pipeline The computer graphics pipeline, also known as the rendering pipeline, or graphics pipeline, is a framework within computer graphics that outlines the...
3. Computer graphics Computer graphics deals with generating images and art with the aid of computers. Computer graphics is a core technology in digital photography, film...
4. Rendering (computer graphics) sub-topics of 3D computer graphics, and in practice it is always connected to the others. It is the last major step in the graphics pipeline, giving models...
5. Graphics card colloquially GPU) is a computer expansion card that generates a feed of graphics output to a display device such as a monitor. Graphics cards are sometimes...
6. Isometric video game graphics producing a three-dimensional (3D) effect. Despite the name, isometric computer graphics are not necessarily truly isometric—i.e., the x, y, and z axes are...
7. Mesa (computer graphics) computer games that the shaders are part of. The so-called "user-mode graphics device drivers" (UMD) in Mesa have very few commonalities with what is...
8. Sprite (computer graphics) In computer graphics, a sprite is a two-dimensional bitmap that is integrated into a larger scene, most often in a 2D video game. Originally, the term...
9. Silicon Graphics Silicon Graphics, Inc. (stylized as SiliconGraphics before 1999, later rebranded SGI, historically known as Silicon Graphics Computer Systems or SGCS)...
10. Graphics tablet or digital art board) is a computer input device that enables a user to hand draw or paint images, animations and graphics, with a special pen-like stylus...
11. Computer graphics workstation (redirect from workstation) such as Sun Microsystems, Silicon Graphics, Apollo Computer, DEC, HP, NeXT, and IBM which powered the 3D computer graphics revolution of the late 1990s. Workstations...
12. Ray tracing (graphics) In 3D computer graphics, ray tracing is a technique for modeling light transport for use in a wide variety of rendering algorithms for generating digital...

13. Graphics processing unit
A graphics processing unit (GPU) is a specialized electronic circuit initially designed for digital image processing and to accelerate computer graphics...
14. Ultimate Play the Game (redirect from Ashby Computer Graphics)
Ashby Computers and Graphics Limited, trading as Ultimate Play the Game, was a British video game developer and publisher, founded in 1982, by ex-arcade...
15. TRS-80 Color Computer
Color Computer line, nicknamed CoCo, started in 1980 with what is now called the Color Computer 1. It was followed by the Color Computer 2 in 1983, then...
16. Matrox (redirect from Matrox Graphics)
Matrox Graphics, Inc. is a producer of video card components and equipment for personal computers and workstations. Based in Dorval, Quebec, Canada, it...
17. Graphics Device Interface
the center of most "What You See Is What You Get" applications for Microsoft Windows. Simple games that do not require fast graphics rendering may use GDI...
18. Computer science
cryptography and computer security involve studying the means for secure communication and preventing security vulnerabilities. Computer graphics and computational...
19. Computer-aided design
technical drawing with the use of computer software. CAD software for mechanical design uses either vector-based graphics to depict the objects of traditional...
20. Personal computer
A personal computer, often referred to as a PC, is a computer designed for individual use. It is typically used for tasks such as word processing, internet...

What is computer graphics using OpenGL? OpenGL (Open Graphics Library) is a cross-language, cross-platform application programming interface (API) for rendering 2D and 3D vector graphics. The API is typically used to interact with a graphics processing unit (GPU), to achieve hardware-accelerated rendering. OpenGL.

What is the architecture of OpenGL in computer graphics? The architecture of OpenGL is based on a client-server model. An application program written to use the OpenGL API is the "client" and runs on the CPU. The implementation of the OpenGL graphics engine (including the GLSL shader programs you will write) is the "server" and runs on the GPU.

How to install OpenGL in computer graphics?

What is OpenGL and its features? OpenGL (Open Graphics Library) is a cross-platform, hardware-accelerated, language-independent, industrial standard API for producing 3D (including 2D) graphics. Modern computers have dedicated GPU (Graphics Processing Unit) with its own memory to speed up graphics rendering.

Does my PC have OpenGL? Open the "Terminal" application. Type ``glxinfo | grep "OpenGL version"``` and press ``Enter``. The output will display the supported OpenGL version.

Is OpenGL for C or C++? Since OpenGL is a graphics API and not a platform of its own, it requires a language to operate in and the language of choice is C++ .

What is OpenGL good for? It is commonly used to make UI animations more responsive or to handle embedded video or to draw vector graphics – really any visual element you put on the screen is fair game for OpenGL. OpenGL is becoming increasingly ubiquitous and understanding how to leverage

its incredible power is a must for developers.

Is OpenGL only for Windows? In all three major desktop platforms (Linux, macOS, and Windows), OpenGL more or less comes with the system.

Is OpenGL still used in games? You bet! Many programs still use OpenGL to draw things. OpenGL has even been integrated into web browsers, a technique called WebGL. Many games also use OpenGL because of its wide support.

Is OpenGL free to use? OVERVIEW. Freeglut, the Free OpenGL Utility Toolkit, is meant to be a free alternative to Mark Kilgard's GLUT library.

Why does my computer not have OpenGL? Most graphics cards support OpenGL, however, some embedded, low power, graphics chips that come alongside higher power ones in laptops may lack OpenGL support. Follow the instructions provided to check the type of graphics card installed on the system and the version of OpenGL running.

Does Nvidia have OpenGL? NVIDIA supports OpenGL and a complete set of OpenGL extensions, designed to give you maximum performance on our GPUs.

Does Chrome use OpenGL? Chrome uses ANGLE not only for WebGL, but also for its implementation of the 2D HTML5 canvas and for the graphics layer of the Google Native Client (which is OpenGL ES 2.0 compatible).

How to activate OpenGL?

What are the minimum requirements for OpenGL?

How does OpenGL work on Windows? As a software interface for graphics hardware, OpenGL renders multidimensional objects into a framebuffer. The Microsoft implementation of OpenGL for the Windows operating system is industry-standard graphics software with which programmers can create high-quality still and animated three-dimensional color images.

How can I use OpenGL? In order to use OpenGL, you must get OpenGL API functions. For most libraries you are familiar with, you simply #include a header file, make sure a library is linked into your project or makefile, and it all works.

Is OpenGL a Nvidia? Originally developed by Silicon Graphics in the early '90s, OpenGL® has become the most widely-used open graphics standard in the world. NVIDIA supports OpenGL and a complete set of OpenGL extensions, designed to give you maximum performance on our GPUs.

What is the difference between DirectX and OpenGL graphics? OpenGL is a functionally based API for the rendering of 2d and 3d graphics whereas DirectX includes that functionality which gives supported features for mouse, keyboard, joystick for input, and rendering of 2d, 3d graphics also.



Figure

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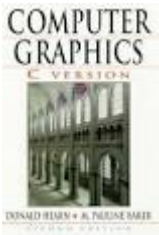
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What is Getmax in computer graphics? getmaxx returns the maximum (screen-relative) x value for the current graphics driver and mode. For example, on a CGA in 320*200 mode, getmaxx returns 319. getmaxx is invaluable for centering, determining the boundaries of a region onscreen, and so on. getmaxx returns the maximum x screen coordinate.

What is the technology of computer graphics? Computer graphics is a core technology in digital photography, film, video games, digital art, cell phone and computer displays, and many specialized applications. A great deal of specialized hardware and software has been developed, with the displays of most devices being driven by computer graphics hardware.

What is the technical definition of computer graphics? Computer graphics refers to a technology that generates images on a computer screen. It's used in digital photography, film and television, video games, and on electronic devices and is responsible for displaying images effectively to users.

What is the best computer graphics? Our current picks for the best graphics cards for 1080p gaming are AMD's Radeon RX 7600 and Nvidia's GeForce RTX 4060.

What is the four types of computer graphics? Computer graphics involve rendering, modelling, animation, and shading. Rendering is creating images from models, while modelling involves building 3D objects. Animation brings movement to still photos, and shading adds texture and colour. Understanding these concepts helps in creating stunning visuals.

What is scissoring in computer graphics? Scissoring is a distinct stage in the WebGL/OpenGL graphics pipeline (it occurs after color clearing, but before color masking). Before the actual pixels are updated, fragments must go through the scissor test.

Is computer graphics difficult? Graphics programming is a difficult field to get started in. For the most part, C++ competency is a given and from there, the path to becoming a competent graphics programmer is a very real grind.

Who is the father of computer graphics? Ivan Sutherland is considered by many to be the father of computer graphics. He introduced such concepts as 3-D computer modeling, visual simulation, computer-aided design (CAD), and virtual reality. Sutherland's work in computer graphics began with his Ph. D.

What are the five examples of computer graphics? Images that are generated by a computer are called computer graphics. Examples are photographs, drawings, line art, mathematical graphs, line graphs, charts, diagrams, typography, numbers, symbols, geometric designs, maps, engineering drawings, or other images. Graphics often combine text, illustration, and color.

What are the 7 areas of computer graphics?

How to learn computer graphics? Good knowledge and understanding of the concepts of C programming language are necessary for learning the concepts of Computer graphics. Good understanding about basic mathematics allows us to better understand the concept of computer graphics.

What is the future of computer graphics? The future of computer graphics looks very promising, with new technologies and innovations constantly emerging. From virtual and augmented reality to real-time rendering, artificial intelligence, and quantum computing, there are many exciting areas to explore.

Are PC graphics better than laptop? Generally, desktop computers can be upgraded with more RAM, as they have more slots available. If you have a dedicated GPU (graphics card), laptop GPUs have a speed 70-80% of desktop GPUs. Desktop GPUs are generally of higher quality, as well.

What system has the best graphics? Which gaming consoles is the most powerful? The Xbox Series X is the most powerful console. In practice, the difference between this and the PS5 is very minimal,

though. Both consoles are able to output 4K visuals while maintaining consistent frame rates and both also support high-end features like 120Hz.

What type of computer do you need for graphic design? A good laptop for designers should have a quad core processor with a minimum speed of 1 GHz. If you're working on high resolution or 3D graphics, we suggest at least an Intel i7 or Apple M1.

What are the 3 basic types of graphics software? Some popular graphics software programs are Adobe Photoshop, Adobe Illustrator, and CorelDRAW. These programs can be used to create and edit digital images, illustrations, and logos. They offer a variety of features and tools that allow users to manipulate photos and graphics to create custom designs.

What are the disadvantages of computer graphics? However, computer graphics also have disadvantages, such as complexity, cost, and limitations. Complex graphical system applications require prior training before use, and some graphics applications are so complex that they need an expert to install and customize.

What are the two types of images in computer graphics? There are a number of specialized software applications to create and edit images, including illustration software and photo-editing software. In general, these applications work with two types of images: vector graphics and raster graphics.

What are C curves in computer graphics? Variations of the C curve can be constructed by using isosceles triangles with angles other than 45° . As long as the angle is less than 60° , the new lines introduced at each stage are each shorter than the lines that they replace, so the construction process tends towards a limit curve.

What is isometric in computer graphics? Isometric projection is a method for visually representing three-dimensional objects in two dimensions in technical and engineering drawings. It is an axonometric projection in which the three coordinate axes appear equally foreshortened and the angle between any two of them is 120 degrees.

What is clipping in graphics? In graphic design, clipping is a technique used to remove unwanted parts of an image, leaving only the desired section.

What is the use of GetPixel in computer graphics? The GetPixel function retrieves the red, green, blue (RGB) color value of the pixel at the specified coordinates.

What is OpenGL in computer graphics? OpenGL (Open Graphics Library) is a cross-language, cross-platform application programming interface (API) for rendering 2D and 3D vector graphics. The API is typically used to interact with a graphics processing unit (GPU), to achieve hardware-accelerated rendering.

What is OpenCL in computer graphics? OpenCL™ (Open Computing Language) is a low-level API for heterogeneous computing that runs on CUDA-powered GPUs. Using the OpenCL API, developers can launch compute kernels written using a limited subset of the C programming language on a GPU.

What does Wddm stand for in computer? The Windows Display Driver Model (WDDM) is the graphics display driver architecture for Windows. It was introduced in Windows Vista (WDDM 1.0) and continues to evolve with every Windows release.

Why Putpixel is used in computer graphics? putpixel() method in Pillow is used to insert pixels onto an image. It is primarily used to set the color of an individual pixel, but it can also be used for other

purposes such as changing pixel transparency or creating different shapes within the image.

How to use GetPixel? Syntax : void putpixel(int x, int y, int color); where, (x, y) is the location at which pixel is to be put , and color specifies the color of the pixel. Explanation : A RED color pixel at (50, 40) can be drawn by using putpixel(50, 40, RED).

What are the advantages of pixel graphics? The biggest advantage of pixel graphics is that they can be edited quickly, easily and without much previous knowledge with any smartphone, tablet or computer. Popular software to create pixel graphics include Adobe Photoshop (commercial) or Gimp (open source).

Is Vulkan better than OpenGL? Doom Vulkan guarantees noticeably higher frames per second rates for its products – although it may turn out unstable on older graphics cards. On the other hand, OpenGL offers solid performance in exchange for lower frames per second and higher hardware overhead.

What replaces OpenGL? Introducing — Vulkan (aka OpenGL Next) In 2013, AMD developed a low level rendering API named Mantle in cooperation with DICE, designed as an alternative to DirectX and OpenGL.

Does Nvidia use OpenGL? NVIDIA supports OpenGL and a complete set of OpenGL extensions, designed to give you maximum performance on our GPUs.

Which is better, CUDA or OpenCL? For all problem sizes, both the kernel and the end-to-end times show considerable difference in favor of CUDA. The OpenCL kernel's performance is between about 13% and 63% slower, and the end-to-end time is between about 16% and 67% slower.

What is CUDA in GPU? In computing, CUDA (originally Compute Unified Device Architecture) is a proprietary parallel computing platform and application programming interface (API) that allows software to use certain types of graphics processing units (GPUs) for accelerated general-purpose processing, an approach called general-purpose ...

Do people still use OpenCL? OpenCL isn't dead, if you write your code from scratch you can use it just fine and match CUDA performance.

What does DDU stand for in computers? Summary. Steps to uninstall an Intel® Graphics Driver using Display Driver Uninstaller (DDU).

What does DXGI stand for? The Microsoft DirectX Graphics Infrastructure (DXGI) manages low-level tasks that can be independent of the DirectX graphics runtime. DXGI provides a common framework for several versions of DirectX.

What is DDU graphics driver? Download Display Driver Uninstaller DDU - Display Driver Uninstaller is a driver removal utility that can help you completely uninstall AMD/NVIDIA graphics card drivers and packages from your system, without leaving leftovers behind (including registry keys, folders and files, and driver store).

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What is GBV programming? GBV programming addresses harmful social norms and systemic gender inequality in a manner that is accountable to women and girls.

What is the concept of GBV? Gender-based violence (GBV) by definition Gender-based violence is violence directed against a person because of that person's gender or violence that affects persons of a particular gender disproportionately.

What are examples of GBV?

What are the 6 types of GBV PDF? MAIN IDEAS The six core types of GBV—Rape, Sexual Assault, Physical Assault, Forced Marriage, Denial of Resources Opportunities or Services, and Psychological / Emotional Abuse—were chosen because they are defined only by the specific act of violence that occurred.

What drives GBV? Gender inequality, and the norms and beliefs that violence against women and girls is acceptable, cause gender-based violence. There are also many factors that increase the risk of GBV, with women and girls living through crises experiencing an increase in both the frequency and severity of GBV.

What are GBV tools? The GBV Classification Tool standardizes how GBV incident types are defined by using a set of six core types of GBV. It also standardizes the procedure by which incidents are classified through a process of elimination that determines the most specific incident type that applies to the reported incident.

What are the core principles of GBV programming? These core principles are: (1) do no harm, (2) survivor centered, (3) rights based, (4) accountable, (5) gender transformative, (6) intersectional, (7) accessible, and (8) led by women's rights organizations and other local groups working on GBV and human rights.

What is the goal of the GBV program? This program aims to increase knowledge of and promote attitudes opposing the violence against women and related issues within the community through the dissemination of appropriate and relevant information.

What is the GBV strategy? The federal GBV Strategy's initiatives are organized across three pillars: Preventing gender-based violence. Supporting victims, survivors and their families. Promoting a responsive justice system.

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What is GBV service? GBV caseworkers listen to survivors, validate their experiences and provide compassionate care. They help survivors access healthcare, justice and other services. They work with survivors of intimate-partner violence to develop safety plans, and establish support systems and meet personal goals.



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MINIMUM STANDARDS, 28 Nov 2023 — Online Gender-Based Violence (GBV) has recently been in the spotlight as cases have increased. Based on Komnas Perempuan's 2022 Annual Report, ... unfpa
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Is Maya 3D animation free? Autodesk, the creators of Maya, offers a free version of the software called Maya LT. Getting your hands on Maya LT is a straightforward process. Here is a step-by-step guide to help you download and install Maya LT for free: Go to the Autodesk website and navigate to the Maya LT page.

How long does it take to learn Maya animation? You can learn the basics in three to four months. But if you want to specialize in specific areas of animation, it might take at least a year to master the program. The thing with Maya is that it's so powerful, but it's very complex, which makes it challenging to master without proper guidance.

How to make 3D animation for beginners?

Is Maya animation easy? To get the most out of the software, go slow and start with the basics. It's normal for complex software programs like Maya to have a steep learning curve, and you have to give yourself time to understand how Maya works. One of the best ways to learn Maya is by watching basic tutorials.

Can I learn Maya for free? Start learning maya today! Get a taste of our materials and mentors in this FREE weekly video course that will take you through the basics of Autodesk Maya, from navigating the tools and interface to creating your first 3D objects with digital sculpting techniques.

How much does 1 minute 3D animation cost? 3D animation is a more complex animation style that requires more time and resources to produce. For that reason, you can expect to spend a bit more than what you would for other styles. On average, a minute of 3D animation costs around \$10,000.

Can you learn Maya by yourself? Are you wondering if you need to go to school to learn Maya? For some people, in-class training is undoubtedly the best way to go. However, 86 of the 230 Maya users we surveyed had no formal training. They were able to learn Maya by using the other resources available to them, like the ones above.

Is Maya easier than Blender? Regarding the user interface, Maya is more clear and standard. The surface and texturing tools are just a bit more simplified in Blender than in Maya. Both Blender and Maya have a steep learning curve, but Blender's community is more supportive.

How hard is it to learn 3D animation? As mentioned before, animation isn't something learned overnight. It's arguably one of the most difficult aspects within a 3D pipeline. It'll take lots of trial and error and most likely some frustration. You may have heard before that it takes a thousand bad drawings to get to those good drawings.

Can you self teach 3D animation? Yes: If you have decent drawing skills, the best place to start for beginners is Animate CC (formerly known as Flash), as it is relatively cheap and easy to learn, especially if you've used other Adobe programs in the past.

Why 3D animation is difficult? In 3D, animators work with intricate models, lighting, and textures, creating a detailed, lifelike environment. As a result, they have to master software for rigging, rendering, and simulating physics, which can be pretty challenging.

What is the easiest software to animate in 3D?

Does Disney use Maya? One of the primary software packages in Disney's arsenal is Autodesk Maya. Maya offers a comprehensive suite of tools for modeling, rigging, animation, and rendering, making it a preferred choice for creating complex and lifelike characters and environments.

Do Pixar use Maya? Autodesk Maya is used by Pixar animators to create and manipulate 3D objects and characters.

How much does Maya software cost? How much does a Maya subscription cost? The price of an annual Maya subscription is \$1,06,200 and the price of a monthly Maya subscription is \$14,473 . The price of a three-year Maya subscription is \$3,18,600 .

Is there a free version of Maya? Where do I download free Maya software for students? Students and educators can get free one-year educational access to Autodesk products and services, renewable as long as you still are eligible. If you are a student or educator, you can access free Maya software with an Autodesk Education plan.

Can you use Maya without a license? The company must either purchase a license for you or you may purchase one yourself (whether you charge it to the company you are working for or not).

Can I use Maya without Internet? As long as the Maya installer has been fully downloaded, it can easily be sent to a machine without an internet connection and extracted. The contents of the installation can be unpacked and installed without a net connection, and Maya can be fully operated on that machine.

How long does it take to make 1 minute of 3D animation? It takes about 1-4 weeks to design and animate 1 minute of motion graphics, depending on the complexity of the design.

How many hours does it take to make a 30 second animation? How long does it take to make a 30-second video. For professionally crafted animated videos, it typically takes from 2 to 6 weeks to make

30-second videos. Producing a 30-second live-action video usually takes around 2 to 4 weeks. Of course, various factors influence the production timeline of a 30-second product video ...

How much should I charge for a 1 minute animation? Freelance Rates Very experienced animators and illustrators or those with specialized skills may charge up to \$500 per minute on the high end while those still building a portfolio often start at \$20-50 per minute.

Is Maya free of cost? How much does a Maya subscription cost? The price of an annual Maya subscription is \$1,06,200 and the price of a monthly Maya subscription is \$14,473 . The price of a three-year Maya subscription is \$3,18,600 .

Which is the best free 3D animation software?

Is Maya a one-time purchase? Maya's monthly subscription plan offers the most flexibility, giving you the option to pay month to month. If you only need to use the software for a short period of time, such as for a client's project, this is the most cost-effective option.

What's better, Blender or Maya? Maya remains our go-to for projects that demand high levels of realism and precision, while Blender offers flexibility and speed, especially when working on concept art or when needing to iterate designs rapidly.

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