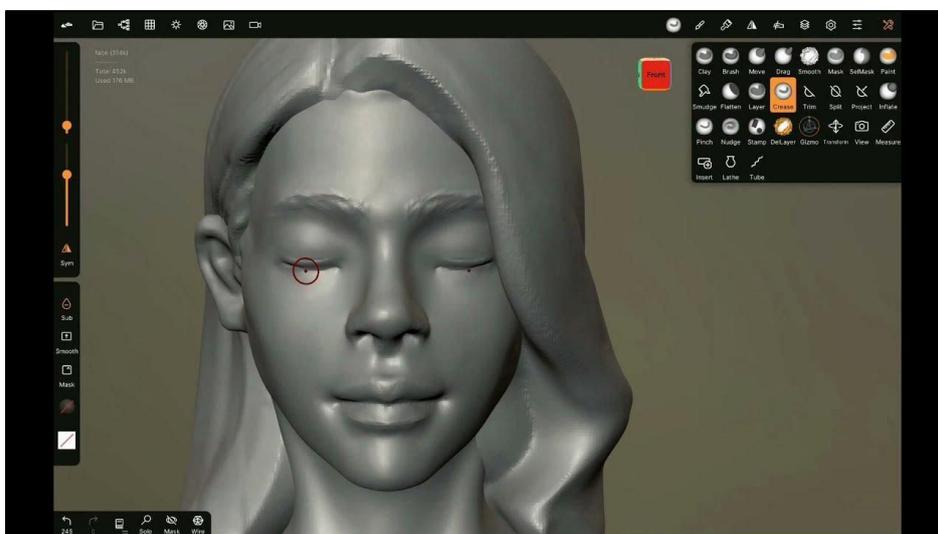## MODERN MOBILE APPLICATIONS USED IN 3D MODELING

Ishonbabayeva Maxfuzaxon Murodjon kizi
PhD student, Kokand State University

Abstract: The brief summary of the article is that by the end of 2025, the development of 3D modeling technologies in the world will involve creating, planning, and implementing comprehensive projects that analyze the most popular applications today. Additionally, the article presents scientific perspectives on the reasons for the effectiveness and advantages of these applications.

Keywords: Onshape, SketchUp, Shapr3D, Tinkercad, Sculpt+,Nomad Sculpt.

Software supply and of the apparatus intense development because of current on the day 3D modeling on tablets intense developed is going on . By the end of 2025 applications to the analysis according to the most popular , convenience , project your work efficiency increase , time savings and sectors Top apps by analysis and advantages seeing Let's go out .

First of all Sculpt+ Android operating system in the system mobile devices for intended into ZBrush looking at created It looks like ZBrush . like this program sculpture opportunity gives and being created the project noticeable at the level simplifying convenient minimalist interface with wide of opportunities combination because of own in the group the most good from offers one Other from the side , Sculpt+ works producers more aspiring to sculptors attention those who gave [1].

1-shakl Sculpt+

Work process a little in plasticine to modeling similar Virtual forms are possible . stretching , squeezing and zoom in possible . With this together depth and bumps to join opportunity gives . Including symmetry save stay , colors , textures and background pictures There is also an addition . This of the program interesting from the characteristics one these are professional modelers to customers work demonstration to do for use possible was rotating GIFs export to do GIFs are a great way to make your own . except , ready files in OBJ or STL format send possible , then 3D printed release for car to the code again is processed .

Sculpt+ 's main version free presented recommended , professional users for expanded tools to the collection has paid version there is .

Nomad Sculpt app mobile 3D modeling on devices for the year 2025 the most good applications is in the line . Sculpt+ than there is tools point of view from the point of view

---

[1] https://androeed.ru/files/sculpt.html?ysclid=mmbtqbvntu785989274

developed again one sculpture program is considered . The program to you real modeling such as the body add or take throw , automatic UV scanners regularly create , vectors drawing and tissues add and models optimization , geometry compliance to do and polygons given to value again calculation such as one row opportunity The application also provides a pen   when using touch sensitivity adjustment opportunity gives ,
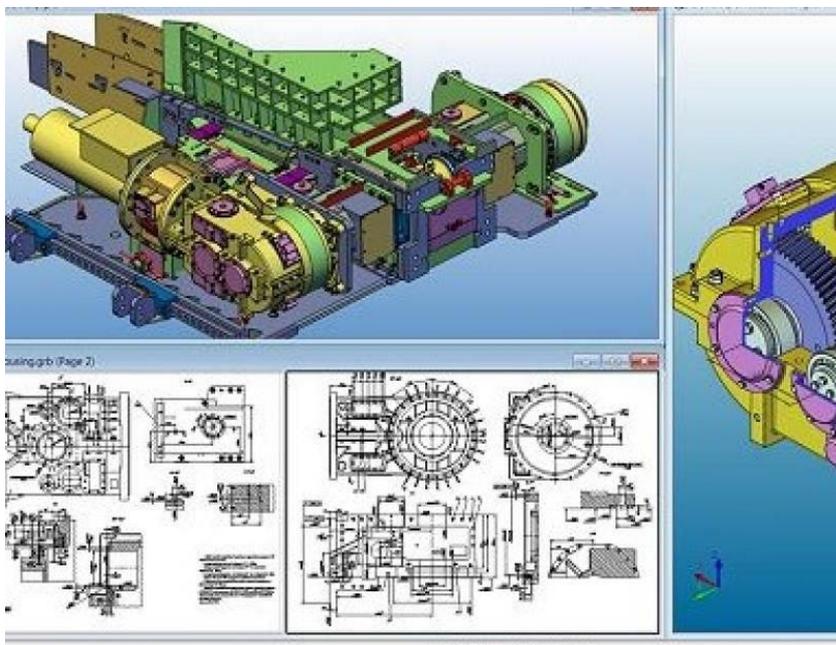
Models faster create for you as a blank space simple geometric from primitives use to take possibility available . One how many light modes and various kind editable windows available — leveling from the means and the hills norm along move through from growth surfaces take throw and rotation new surfaces create possible . Ready models In glTF , OBJ, PLY and STL formats export to be done possibility there [2] is

Nomad Sculpt app iOS, iPadOS and Android operating system systems , as well as Windows and MacOS for in versions available . Application paid , but lifelong to license has is considered . Current on February 28 , 2026 new version presented was done .

 Onshape - software supply straight away mobile to the device installation demand not doing computer using design and cloudy calculation to the power has browser This is a system . to you strong without equipment to work opportunity gives . But the same at the time stable the internet demand does . The program the popular SolidWorks CAD create for responsible was team members by working released .

Home attention hard in the state to modeling aimed at is parametric   modeling , structures and renderings creation , for CNC machines (CAM) management programs preparation and in projects collective to work own inside received various kind tools available . Information in the cloud is stored and malfunctions because of projects loss the risk reduces .

Production Developers Android and iOS operating systems systems for options , that's it including non-profit for purposes use for free versions created .

2-shakl onShape

SketchUp - This program fast visualization point of view from the point of view created and inexperienced users for comfortable , understandable , learning easy interface with is famous . With this together wide functionality professionals , especially architectural designers and decorators to oneself attraction does , because program buildings , landscape , furniture and internal the items sketch and 3D modeling for elements accuracy with showing give takes [3].

Users for in advance prepared of objects wide library , rotate , zoom and location identify , objects to classes combine

[2]Jean Tilmany (April 2016). "CAD-in-the-Cloud moves closer to real-time sharing". Design World. Archived from the original on 2025-01-23.

[3] James. "Beautiful model created with sketchup 6!" 3dwarehouse.sketchup.com. Retrieved 2021-07-16

and to the floors or into layers to be , to color and camera using flat   types photo to take and import , comments   add there is a chance . With that together scenes demonstration to do various styles — from drawings pull photorealism to do possible . Definitely modeling for measurement tapes , guides lines and fences available . Lighting settings of the world various at points various at times sun light imitation to do opportunity give takes .

3- shakl SketchUp

SketchUp various kind in versions there is split , browser , work   table and mobile devices , that's it including paid and free programs . SketchUp Free - of free version in the browser works , models see   for SketchUp Viewer programs also exists , but Android and On iOS   working modeling It wo n't be possible .

Shapr 3D   mainly On iPad   work for intended , but   macos and Windows ' " work " desktop " versions cloud through each other   activity platform also available . SolidWorks and one kind file formats with work takes .
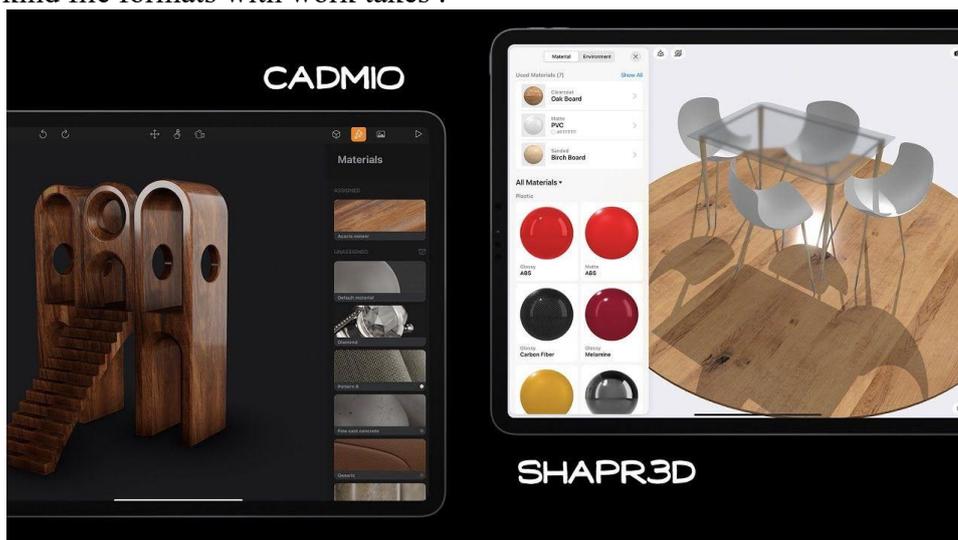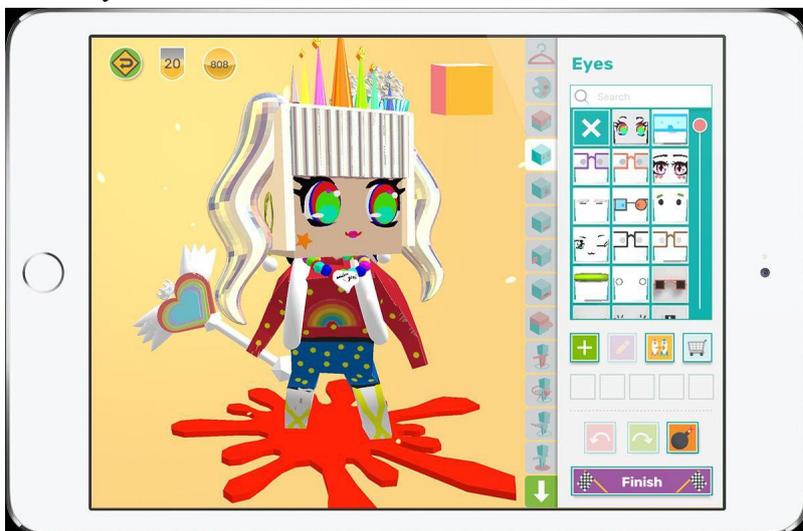

Figure 4 SHARP3D

Application permanent to the internet connection demand does not , interface very comfortable and understandable even though professional users for intended . Program various kind tools gives : sketches for lines , arcs , circles and polygons , 3D modeling for extrusion ,

213

rotation , scanning and shells , parallelism , symmetry , perpendicularity and concentricity tools and expanded in fact work possibility . Shapr3D program free in the form exists , but some one restrictions there is [4].

Tinkercad by Autodesk   working 3D modeling   for browser application is , this program initially to children aimed at and even to the constructor 3D modeling in Tinkercad   principle simple geometric shapes - cubes , cones , spheres , cylinders to manage is directed [5]. Objects work to the field is added , there them expansion , scaling , sides proportions change , each other connect or on the contrary , one the body from another take throw , further complicated shapes to take possible .

5-shakl Tinkercad

Time to pass with working speakers children for and design for further developed tools added . Famous electronic components models , in virtual mode to work check for electronic schemes and sensors simulators and are the beginnings . Tinkercad program absolutely free presented is being and official on the website there is .

References:

1. Jean Tilmany (April 2016). "CAD-in-the-Cloud moves closer to real-time sharing". Design World. Archived from the original on 2025-01-23.

2. James. "Beautiful model created with sketchup 6!" 3dwarehouse.sketchup.com. Retrieved 2021-07-16

3. AP, Anthony Frausto-Robledo, AIA, NCARB, LEED (July 23, 2021). "INSIDER: Shapr3D is Bold on Apple and CAD Dominance" etrieved May 27, 2024

4. Herrman, Jon. "3D modellashtirish va bosib chiqarishni qanday boshlash kerak" PopularMechanics.com. Hearst 29 yanvar 2015

INTERNET HAVOLALAR:

5. https://androeed.ru/files/sculpt.html?ysclid=mmbtqbvntu785989274

---

[4] AP, Anthony Frausto-Robledo, AIA, NCARB, LEED (July 23, 2021). "INSIDER: Shapr3D is Bold on Apple and CAD Dominance" etrieved May 27, 2024

[5] Herrman, Jon. "3D modellashtirish va bosib chiqarishni qanday boshlash kerak" PopularMechanics.com. Hearst 29 yanvar 2015