



Houseplan 1.0 VS Sketchup 2023

Houseplan 1.0



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Table of Contents

1. Comprehensive Evaluation	3
2. Houseplan 1.0 Advantages.....	3
3. Comparison Details.....	5
1) Modeling	5
2) Material	5
3) Rendering	6
4) Animation	6
5) Compatibility.....	6
6) Output	6

Houseplan 1.0 VS SketchUp 2023

Houseplan 1.0 is a powerful, easy-to-learn, lightweight and compatible 3D modeling and real-time rendering software that can create 3D models quickly and demonstrate your scheme independently. Its multiple modeling methods, convenient real-time rendering and plenty of 3D model and texture resources offer you great work experience and design results with the lowest budget.

1. Comprehensive Evaluation

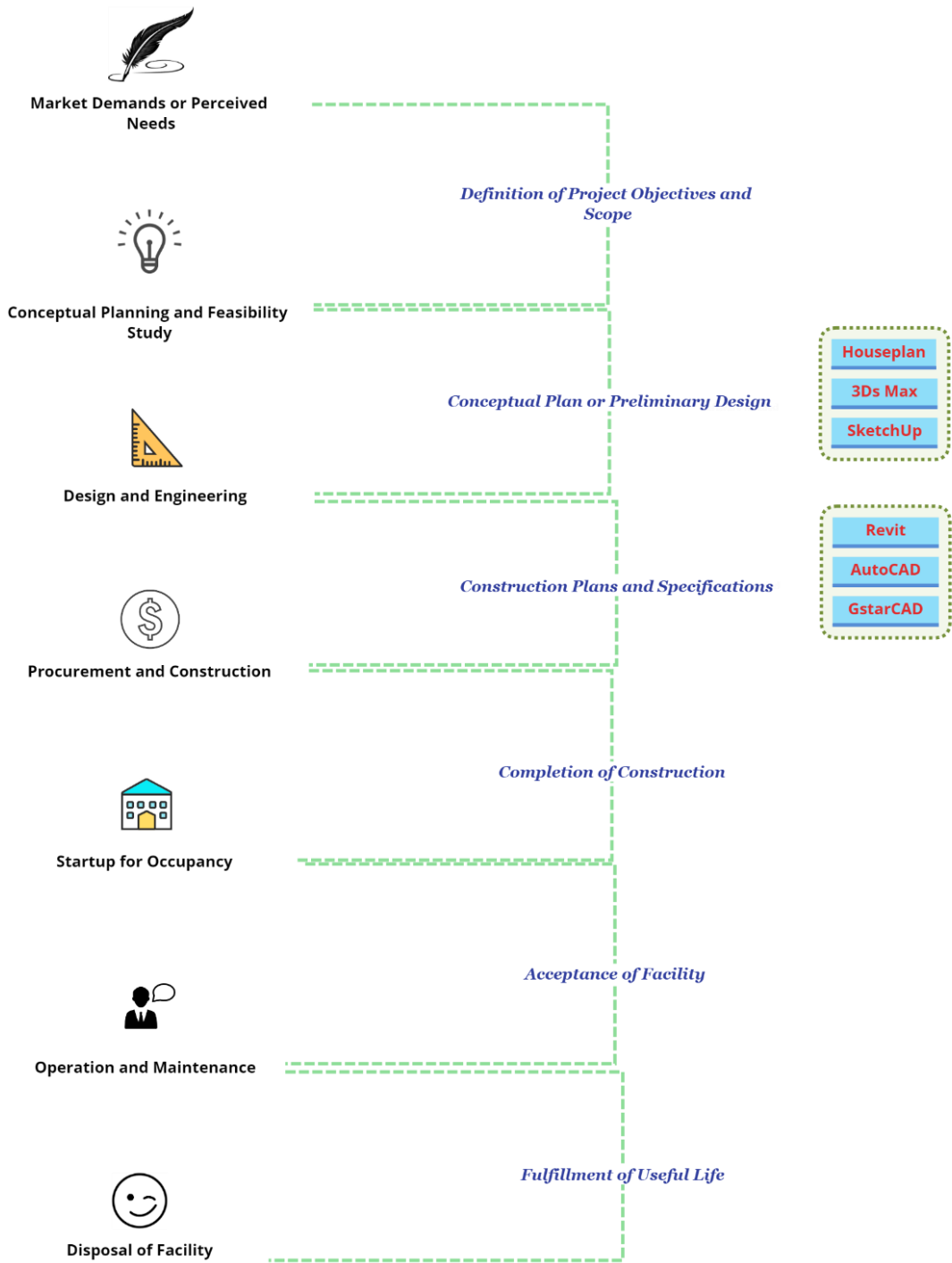
Both Houseplan 1.0 and SketchUp 2023 are advanced modeling and rendering software used for creating various styles of models and visual effects. They can complete a series of processes, from importing drawings to modeling and drawing, to produce either an image or animation. They are used by different industries for different purposes and provide great assistance in creating 3D works.

SketchUp 2023 is commonly used in three-dimensional space applications like architectural design and interior design, mainly for conceptual planning, feasibility studies, and preliminary design stages. On the other hand, Houseplan 1.0 is widely used in architectural and scene design, focusing on realizing the three-dimensional modeling and rendering functions, also mainly for conceptual planning, feasibility studies, and preliminary design stages.

2. Houseplan 1.0 Advantages

- No need for additional plugins.
- Modeling professional elements like buildings and roads with a few clicks.
- Supports inserting DWG drawing and extrude to a building directly.
- Real-time rendering without additional plugins.
- Comes with an animation library, allowing for easy insertion and movement.
- More professional and easy-to-use tools integrated in the Houseplan 1.0.
- Lower price and Perpetual License.

Brief Construction Workflow



3. Comparison Details

1) Modeling

Houseplan 1.0	<p>Houseplan 1.0 is an exceptional 3D design software that can be used in creating houses and environmental models. It offers a wide range of modeling modes to cater to various design requirements and seamlessly integrates graphic design, architectural knowledge, computing, and other advanced technologies.</p> <p>Houseplan 1.0's unique "Sculpture Method" employs specialized functions to simplify the design of buildings and roads, enabling users to efficiently construct models through parameter input, extruding operations, and component carving.</p> <p>Furthermore, Houseplan 1.0 has developed a structured lightweight advanced modeling module that boasts simple yet powerful features, high integration, and ease of use. The module's tools effectively meet complex modeling requirements and offer the modeling capabilities of traditional software, while its user-friendly interface makes it accessible to both professionals and amateurs alike.</p> <p>Houseplan 1.0's comprehensive modeling functions enable users to create complex models effortlessly. It supports the creation of planes and 3D objects such as rings, cones, and pyramids, as well as commonly used editing functions for elements like points, lines, and planes, including extrusion, deformation, lofting, lattice, and mapping. With these advanced features, Houseplan 1.0 enables users to quickly build 3D simulation scenes with ease.</p>
SketchUp 2023	<p>SketchUp 2023 is simple and efficient, but it lacks advanced modeling methods. When designing a complex model, it needs to load various plug-ins to work with it.</p>

2) Material

Houseplan 1.0	<p>An open material system has been developed in Houseplan 1.0, equipped with a user-friendly material editor. It features a unique layered approach to building materials and supports easy and efficient material pasting.</p> <p>Materials can be enhanced with various effects such as bump, reflection, self-illumination, and glow. For water surfaces, users can choose between Mapping Reflection and Real Reflection, and adjust parameters such as Glossiness, Reflection Intensity, Fresnel Offset, Fresnel Index, Ripple Height, and more.</p> <p>For simple models, Houseplan 1.0 provides Modal Adjustment and Free Adjustment tools, while more complex models can benefit from the UV Editing tools, which enable the assignment and adjustment of editable polygon materials.</p>
SketchUp 2023	<p>Use V-Ray rendering to make the material more realistic, with atmospheric effects, global illumination, natural light, real texture and light and shadow options.</p>

3) Rendering

Houseplan 1.0	<p>Houseplan 1.0 provides users with a comprehensive simulation environment that accurately replicates real-world physical characteristics, such as geometry, materials, lighting, shadows, and weather. The rendered images resemble photos and are easily editable. With real-time rendering capabilities, users have access to various environments and customizable scene parameters.</p> <p>The software also supports synchronous dynamic rendering, powered by a high-performance rendering engine that resolves the challenge of flexible 3D graphics editing and simulation synchronization. So, you can design in interactive, responsive environments that immediately display the rendered results.</p>
SketchUp 2023	<p>SketchUp 2023 doesn't support real-time rendering. It uses V-Ray and ChaosCloud to render more delicate images.</p>

4) Animation

Houseplan 1.0	<p>Houseplan 1.0 has an animation entity library with set actions, which allows adding animation entities to scenes directly, and formulating and editing the animation path at the same time. The operations are simple and fast.</p>
SketchUp 2023	<p>SketchUp 2023 supports making some simple animations, such as building growth, opening and closing doors, turning on lights and other simple animations.</p>

5) Compatibility

Houseplan 1.0	<p>Houseplan 1.0 supports importing 2D and 3D data and commonly used pictures in osgb(tile), rvt , skp, obj, 3ds, dwg, fbx , cgr, dem, tif, jpg and other formats, and also supports their editing and application. It also allows importing DWG drawings and extrude directly, as well as the import of data such as oblique photography and point cloud data.</p>
SketchUp 2023	<p>SketchUp 2023 supports csv (point cloud), dwg, dxf, jpg, 3ds, obj, mp4, rvt, fbx, c4d and other format files.</p>

6) Output

Houseplan 1.0	<p>1) 2D and 3D Output Layouts can be exported as DWG/DXF, or many other 3D formats.</p>
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2) Publish

Provides tools specifying camera points and video paths to export images and videos. Also, you can publish your design with a .exe file that can be operated independently to view images and videos, draw new video paths, display properties, and switch weather environments.

3) Image

You can set viewpoints and output a variety of image formats.

4) Video

Houseplan 1.0 specially designed an easy-to-use video module, users can formulate and edit drawing paths and view angles, preview or save video results, and then quickly output roaming animations to mp4, mkv and other video files.

***SketchUp
2023***

The scheme can be exported as 2D and 3D formats files as well as pictures and videos.



Houseplan 1.0



■ www.gstarcad.net/houseplan/