

# Maxwell Render

	Maxwell Render
<b><u>Developer(s)</u></b>	<a href="#">Next Limit Technologies</a>
<b>Initial release</b>	26 April 2006; 13 years ago
<b><u>Stable release</u></b>	5.0 <sup>[1]</sup> / 30 October 2019; 4 months ago
<b><u>Operating system</u></b>	<a href="#">Linux</a> (on <a href="#">x86-64</a> ) <a href="#">Mac OS X</a> (on <a href="#">IA-32</a> and <a href="#">PowerPC</a> ) <a href="#">Microsoft Windows</a> (on IA-32 and x86-64)
<b>Available in</b>	English
<b><u>Type</u></b>	<a href="#">Raytracer</a>
<b><u>License</u></b>	<a href="#">Proprietary commercial software</a>
<b>Website</b>	<a href="http://www.maxwellrender.com">www.maxwellrender.com</a>

**Maxwell Render** is an unbiased 3D render engine, developed by [Next Limit Technologies](#) in Madrid, Spain. This stand-alone software is used in the film, animation, and VFX industry, as well as in architectural and product design visualization.<sup>[2][3]</sup> It offers various plug-ins for 3D/[CAD](#) and post production applications.<sup>[4]</sup>



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## Overview

Maxwell Render was released to the public as an early alpha in December 2004 (after two years of internal development) utilizing a [global illumination](#) (GI) algorithm based on a metropolis light transport variation.<sup>[5]</sup> Next Limit Technologies released its latest version of Maxwell Render V4.2 in February 2018.<sup>[6]</sup>

The [physically correct rendering](#) engine was originally used as a tool for [animation](#) and [visual effects](#). Maxwell Render's trademark Multilight feature,<sup>[7]</sup> which permits the changing of light intensities and colors in [real time](#), was used in the feature film [The Curious Case of Benjamin Button](#).<sup>[8]</sup>

## General features

### Physically-based advantages

- Accuracy
- Advanced Ray Tracing
- Physical Sky
- Fast scene set-up
- Layer-based materials
- Multilight

### Multilight™ FIRE: Fast Interactive Rendering

- Immediate feedback to make adjustments to lighting, materials and camera settings

### Materials Realistic Camera Model

- Real camera parameters: f-Stop, Focal length, Shutter speed, ISO, film size, diaphragm blades

### Memory Saving Instances Accurate 3D Motion Blur Hair, Grass and Fur

- Compatible with many hair systems: Maya Shave and a Haircut, Maya hair, 3ds Max hair, CINEMA hair, Ornatix

### Volumetrics Particle Rendering

- Integration with RealFlow software
- Maxwell Sea
- Maxwell Volumetric
- Maxwell Grass
- Maxwell Scatter

### Industry standard support

- Alembic
- AxF
- Deep compositing
- Pixar Open SubDiv
- Python scripting
- VDB

## Network Rendering Post Production

- Post production plug-ins
- Channels
- Custom Alphas

## Interaction with other software

Maxwell Render for [SketchUp<sup>\[9\]</sup>](#) is a simplified version of Maxwell Render, fully integrated into the SketchUp software application. Users can set the camera, lighting and environment, apply SketchUp or Maxwell MXM materials, and render and save image files. It is widely used in product design, architectural and engineering visualization.

## Plug-ins

### 3D application plug-ins

- SolidWorks
- SoftImage
- MODO
- MAYA
- Houdini
- Rhinoceros
- SketchUp
- LightWave
- Graphisoft ArchiCAD
- Bonzai 3D
- REVIT
- 3DS MAX
- CINEMA 4D
- form Z

### Postproduction application plug-ins

- Photoshop
- Nuke
- After effects

### Third party supported plug-ins

- solidThinking
- blender

## Version history

2004 Maxwell Render Alpha version  
2005 Maxwell Render Beta version  
    Maxwell Render 1.0  
2006  
    Maxwell Render 1.1  
    Maxwell Render 1.5  
  
2007 Maxwell Render 1.6  
  
    Maxwell Render 1.6.1  
2008 Maxwell Render 1.7  
2009 Maxwell Render 2.0  
    Maxwell Render Suite 2.6  
2011  
    Maxwell for Google SketchUp  
    Maxwell Render 2.7  
  
2012 Maxwell Render Learning Edition  
  
    Maxwell Render 2.7.1  
    Maxwell for SketchUp  
2013  
    Maxwell Render 3.0  
    Maxwell Render 3.0.1  
2014  
    Maxwell Render 3.0.1.1 beta  
    Maxwell Render 3.1  
  
2015 Maxwell Render 3.1.0.2  
  
    Maxwell Render 3.2  
2016 Maxwell Render 4.0.0.11  
    Maxwell Render 4.0.1.1  
2017  
    Maxwell Render 4.1  
    Maxwell Render 4.2.0.2  
2018  
    Maxwell Render 4.2.0.3  
2019 Maxwell Render 5.0

**See also**

- Ray tracing
- [Indigo Renderer](#) - Another commercial unbiased renderer
- [Kerkythea](#) - A free unbiased renderer
- [LuxRender](#) - An open source unbiased renderer
- [Octane Render](#) - A commercial unbiased GPU-accelerated renderer