## **New in Rhino 8**



**Rhino 8** brings new modeling tools like <u>ShrinkWrap</u>, a <u>huge speed boost for Mac users</u>, <u>simplified modeling workflows</u>, <u>SubD Creases</u>, improved <u>clipping and sectioning tools</u>, <u>a</u> <u>more customizable User Interface</u>, <u>a faster Render engine</u>, <u>new Grasshopper data types</u>, and <u>much more</u>...

**Rhino 8** adds dozens of refinements to existing tools and some new ones:

Modeling Simplified: Combine new tools to quickly sketch your idea in 3D.

**PushPull**: Grab a face and push or pull it, extruding or extending. PushPull speeds up modeling by using curves to add or remove volumes from existing surfaces.

**<u>Gumball</u>**: The move, scale, rotate widget gets new grips for extending and extruding.

<u>SubD</u>: SubD Creases, great for making fillet-like features.

Surface Fillets: FilletSrf has a new UI with dynamic radius previews.

Offset: Offset can now create multiple closed regions.

Editing complex models in **Rhino 8** is fast and easy:

**<u>Gumball</u>**: The move, scale, rotate widget gets new grips for extending and extruding.

Auto CPlanes: Smarter CPlanes automatically align to eligible selections.

Improved Mesh Booleans: Completely rewritten and more reliable Mesh Booleans.

**<u>RefitTrim</u>**: Take control of structure and continuity for well-made surface models

**Rhino 8's** User Interface is far more customizable, even on Mac, with:

<u>Window Layouts</u>: Customize, save, share, and restore your favorite interface layouts.

Layer Manager: A complete rewrite, on Windows and Mac, including all new features.

**Blocks**: The Block Manager is now more flexible and powerful.

<u>Surface Fillets</u>: FilletSrf has a new UI with dynamic radius previews.

New in **<u>Rhino 8</u>**:

Metal: Blazing fast 3D drawing on Mac.

<u>New Display Mode</u>: Monochrome, a clean, minimal look, perfect for showcasing architectural work.

New in **Rhino 8**:

**Rhino Render**: We've updated the Cycles engine for faster, GPU-accelerated raytracing.

**UV Mapping**: UV Mapping has been improved with a floating UV Editor, new unwrapping algorithms, pinning and a better texture quality in the display.

**Procedural Textures**: Native, per-pixel procedural textures in raytraced and rendered modes.

**Display Modes**: Monochrome, a clean, minimal look, perfect for showcasing architectural work.

In Rhino 8, we've added...

Linetypes: Draw stylized curves with pattern, width and taper to communicate design or artistic flair.

**<u>Reflected Ceiling Plans</u>**: A reflected parallel projection viewport mode, perfect for RCPs.

**Dynamic 2D Drawings:** 

<u>Section Styles</u>: Clipping planes and section styles give more control when using clipping planes.

In <u>Rhino 8</u>, try out...

<u>ShrinkWrap</u>: ShrinkWrap creates a watertight mesh around open or closed meshes, NURBS geometry, SubD, and point clouds: ideal for creating meshes for 3D printing.

<u>Sectioning for Fabrication</u>: Support for extracting curves, hatches, surfaces and slices of clipping planes.

In <u>Rhino 8</u>, test out...

Improved Mesh Booleans: Completely rewritten and more reliable Mesh Booleans.

<u>ShrinkWrap</u>: ShrinkWrap creates a watertight mesh around open or closed meshes, NURBS geometry, SubD, and point clouds: ideal for creating meshes for 3D printing.

## New in **Rhino 8**:

Curvature Analysis: Now supports SubDs.

**<u>Draft Angle Analysis</u>**: Allows using Named CPlanes, a smarter CPlane Z option and automatically sets direction when switching options.

**Point Deviation**: Now supports SubDs and shows red numbers when invalid distances are entered.

In addition, Rhino 8 now supports:

<u>USD Export</u>: Universal Scene Description, an extensible format commonly used in visualization applications.

<u>GLTF Import/Export</u>: GL Transmission Format, useful for sharing 3D models on the web using WebGL.

Improved support for many formats.

New in Grasshopper 1 in Rhino 8:

**Object Attributes**: Manage Rhino object attributes directly from Grasshopper.

<u>Annotations</u>: Document your design with Grasshopper's annotation, hatch, and linetype components.

**<u>Blocks</u>**: Create block definitions and instances in Grasshopper.

Live Baking: Live update existing Rhino objects from Grasshopper.

UserText: Add, modify, or remove user text from any Rhino object.

And more...

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Based on info from: <u>https://www.rhino3d.com/features/#overview</u>