

New in Rhino 7

Rhino 7 is the most significant upgrade in our history. You can create organic shapes with our new **SubD tools**. Run Rhino and Grasshopper as a Revit[®] Add-On with **Rhino.Inside.Revit**. Use the robust **QuadRemesh** algorithm to create a beautiful quad mesh from NURBS geometry or meshes. With this release, we've unlocked completely new modeling workflows and refined many steadfast features. These are the highlights...

SubD

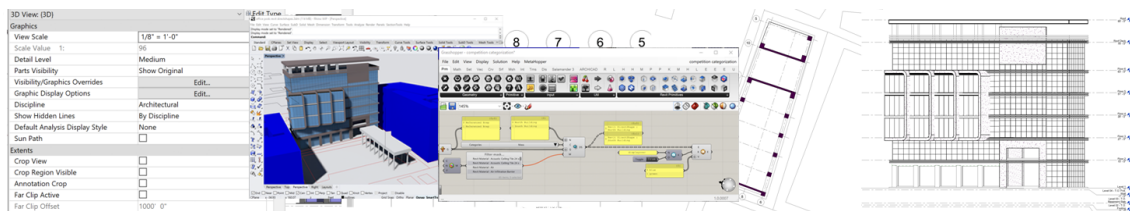
For designers who need to explore organic shapes quickly, SubD is a new geometry type that can create editable, highly accurate shapes. Unlike other geometry types, SubD combines free-form accuracy while still allowing quick editing.



All the details...

Rhino.Inside.Revit

Rhino.Inside.Revit brings the power of Rhino and Grasshopper to the Autodesk Revit[®] environment.



All the details...

QuadRemesh

Quickly create a quad mesh from existing surfaces, solids, meshes, or SubDs—ideal for rendering, animation, CFD, FEA, and reverse-engineering.



Presentation

In Rhino 7, we've improved the presentation tools, streamlining the workflow with a major update to the Rhino Render engine, so the same look you get in your Raytraced viewport can be rendered without any changes. We've added support for PBR materials, a LayerBook command, and more...



PBR Materials

Physically Based Rendering Materials are beautiful and easy to use.

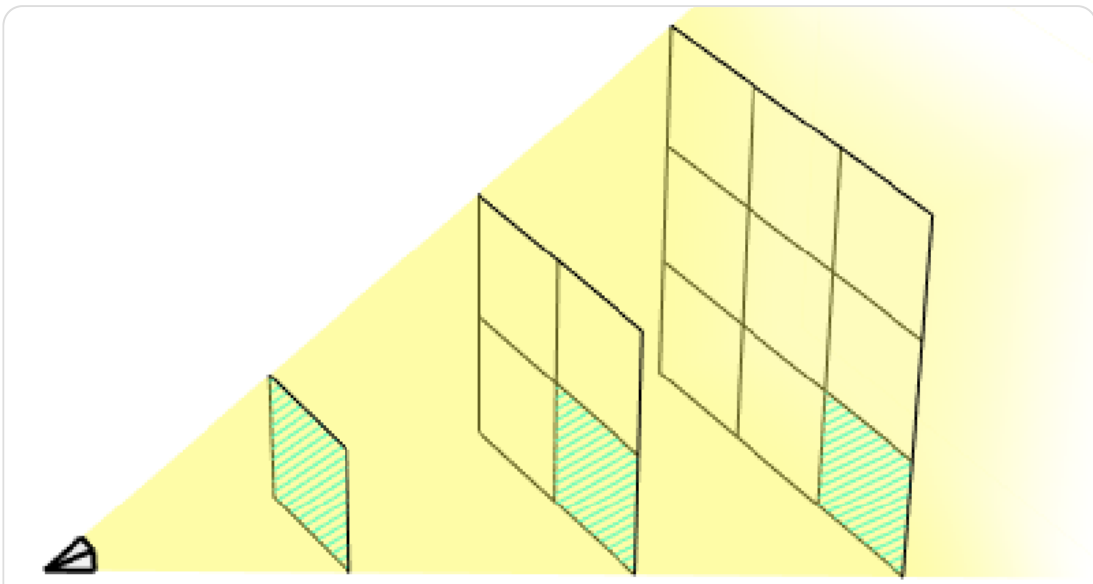


Denoisers



Emissive Materials

Create self-lit objects commonly found in consumer electronics.



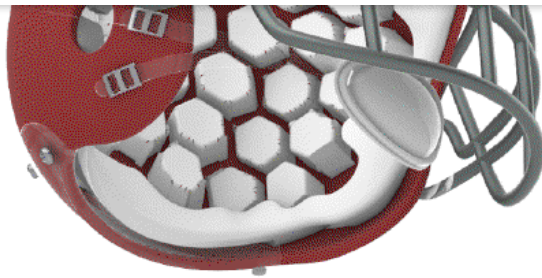
Light Falloff

Specifies how lighting intensity changes when light travels in the scene.



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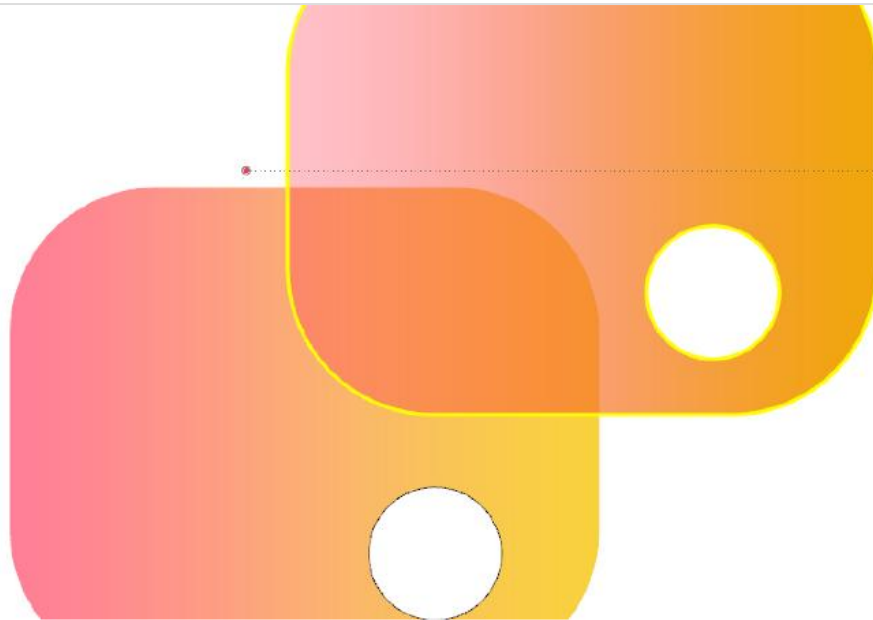
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Pad Concept 1

LayerBook

Present ideas quickly with LayerBook.

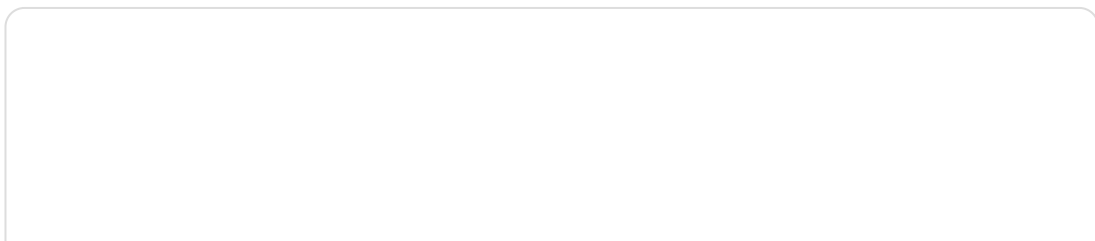


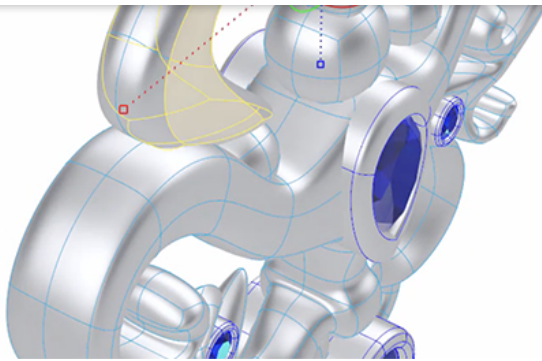
Gradient and Transparent Hatches

Create attractive 2D representations in a few steps.

Rhino Refined

In Rhino 7, we've fixed hundreds of bugs, but we've also added workflow improvements like Named Selections, Mold Making tools, a Single-Line font for engraving, and improved interoperation with third-party file formats...

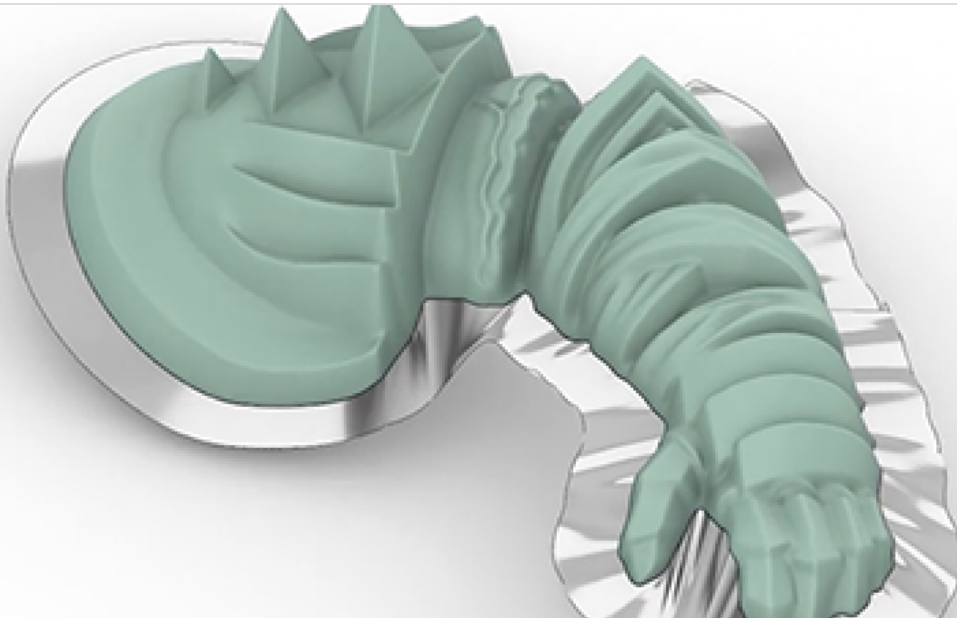




▶	 Gems	8
▶	 Crown Front	18
▶	 Blend	6
▶	 Flute Loop	10
▶	 Key Teeth	541

Named Selections

Quickly save and restore previously selected objects



Mold Making Tools

For mold makers and tool designers, Rhino's makes the model-test-revise ...



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Single-Line Fonts

Improve the speed and quality of CNC engravings.

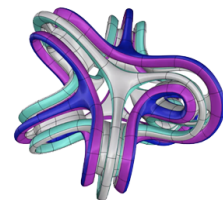
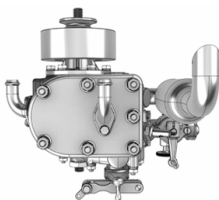
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Supported File Formats

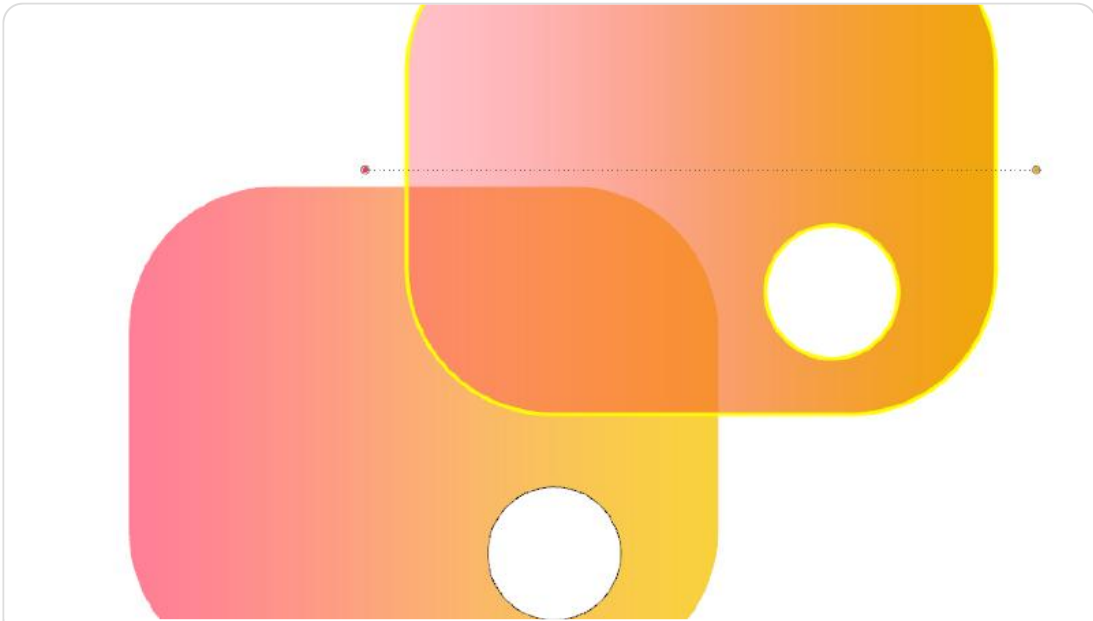
In Rhino 7, we've improved fidelity for existing formats and support for ...

Display

We are always refining Rhino's display pipeline to keep up with modern graphics hardware. In Rhino 7, some models will display significantly faster on both Windows and Mac. We've also made several refinements to the Display Modes to make them even more eye-popping while you work...

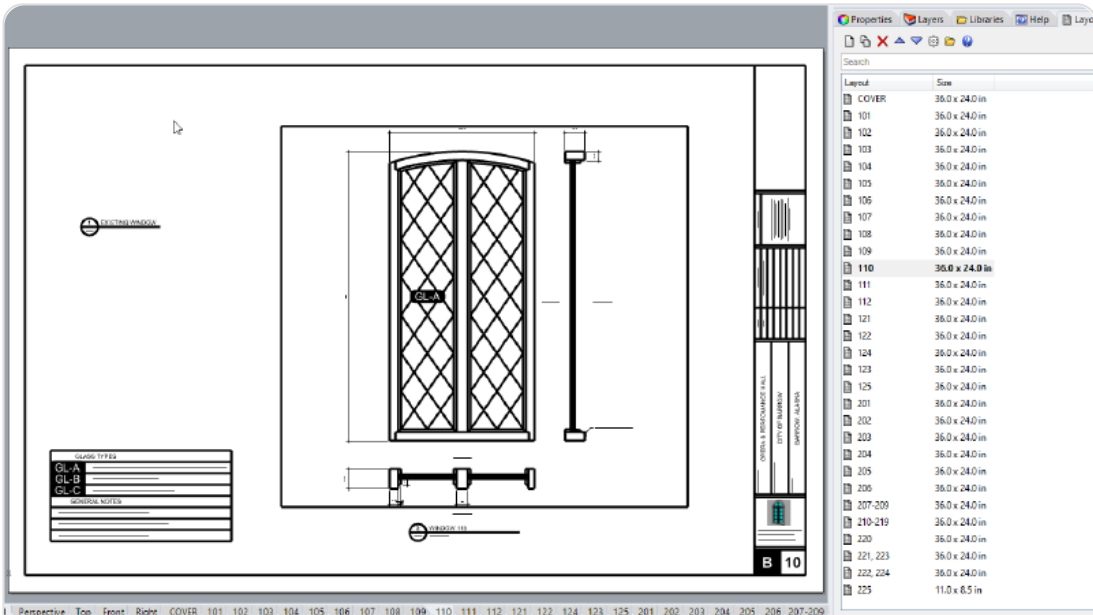


workshop while also reading on the more graphically rich instruction tools like transparency and gradient hatches...



Gradient and Transparent Hatches

Create attractive 2D representations in a few steps.



Layout Management

Vertical panel makes it easier to manage models with many drawings.

BlockInstanceCount
BlockInstanceName
CurveLength
Date
DateModified
DetailScale
DocumentUserText
FileName

Select Object

Evaluated result:

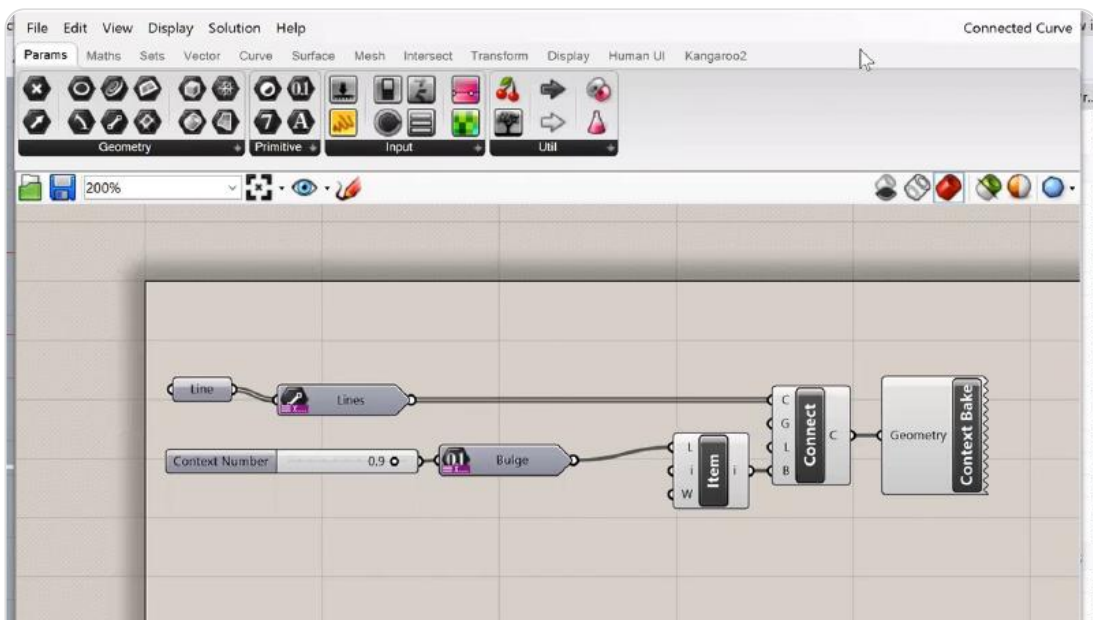
No object selected

Enhanced Text Fields

Text fields are text formulas that can dynamically update.

Grasshopper

Grasshopper seems to be everywhere lately. As usual, we're having a hard time keeping up (you might even see that familiar canvas in other applications). In Rhino 7, we've added some new components, but we've also made it easier to turn your programs into plugins...



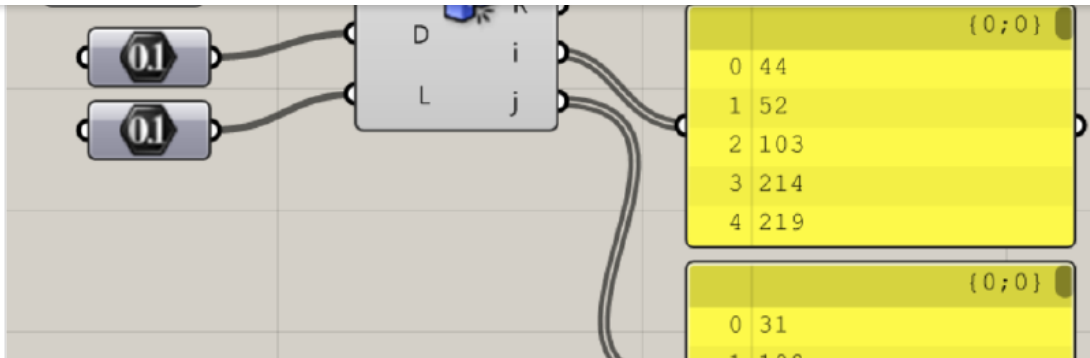
Grasshopper Player

Turn your Grasshopper definitions into Rhino commands.



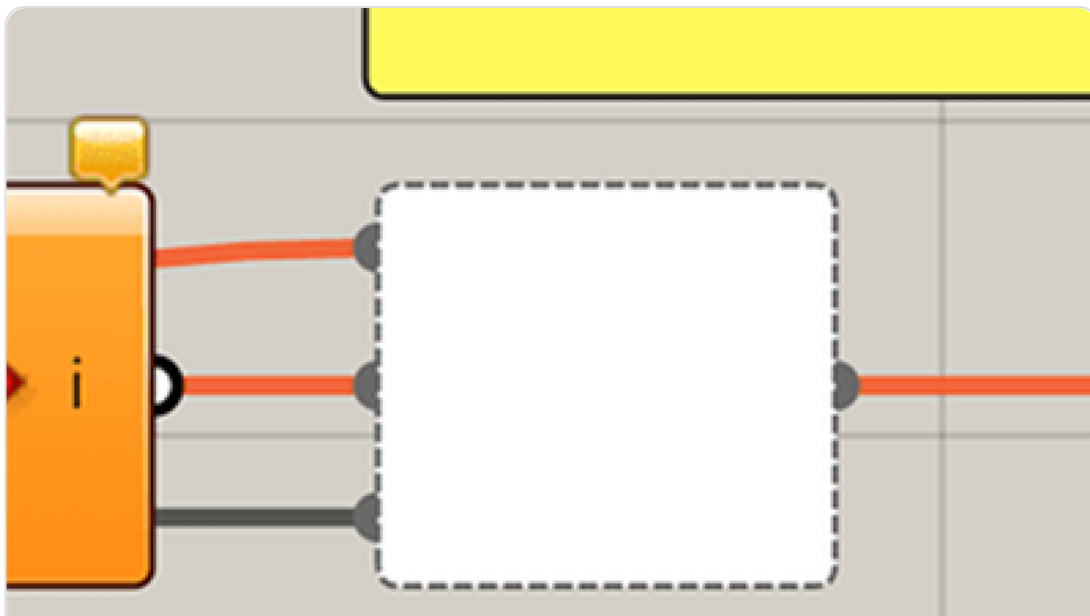
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Clash Detection

Quickly find where your objects occupy the same space.

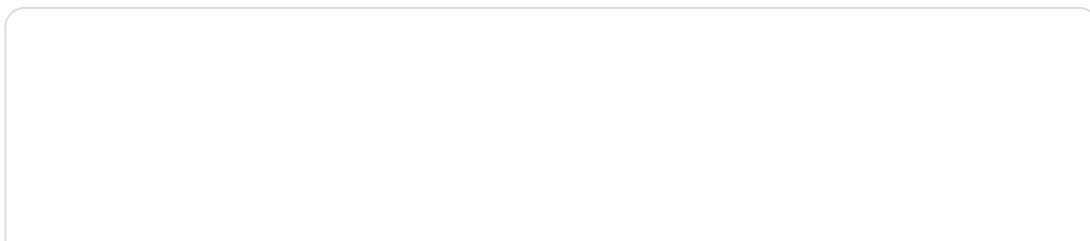


Grasshopper Component Placeholders

Placeholder component for missing plugins.

Development Platform

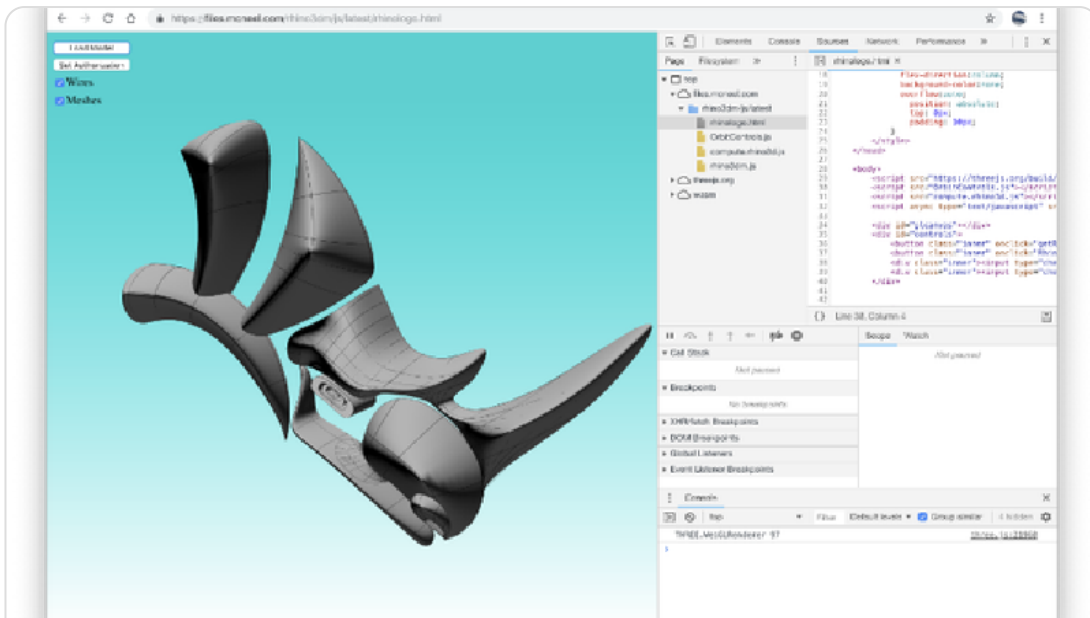
Rhino 7 brings major improvements to our **free SDKs**, with **API refinements**, **better documentation**, and some major new features that broaden and deepen the foundations of *the* geometry development platform...





Package Manager

Discover, install, and manage your resources.



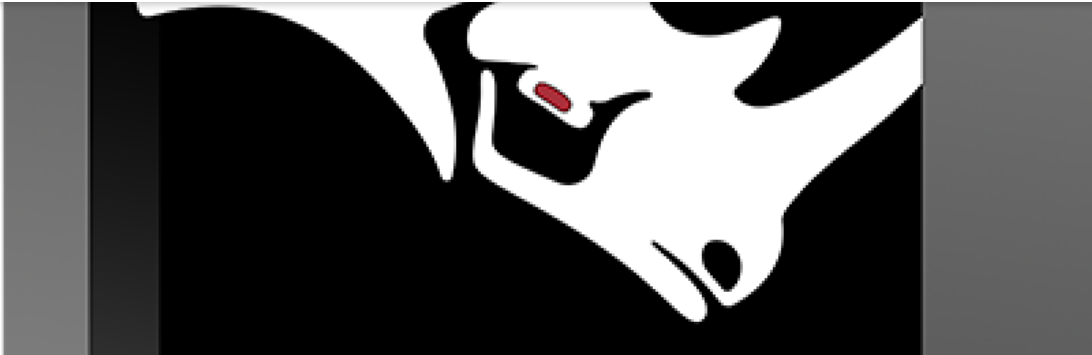
rhino3dm Libraries

Read and write rhino 3dm files from nearly anywhere.



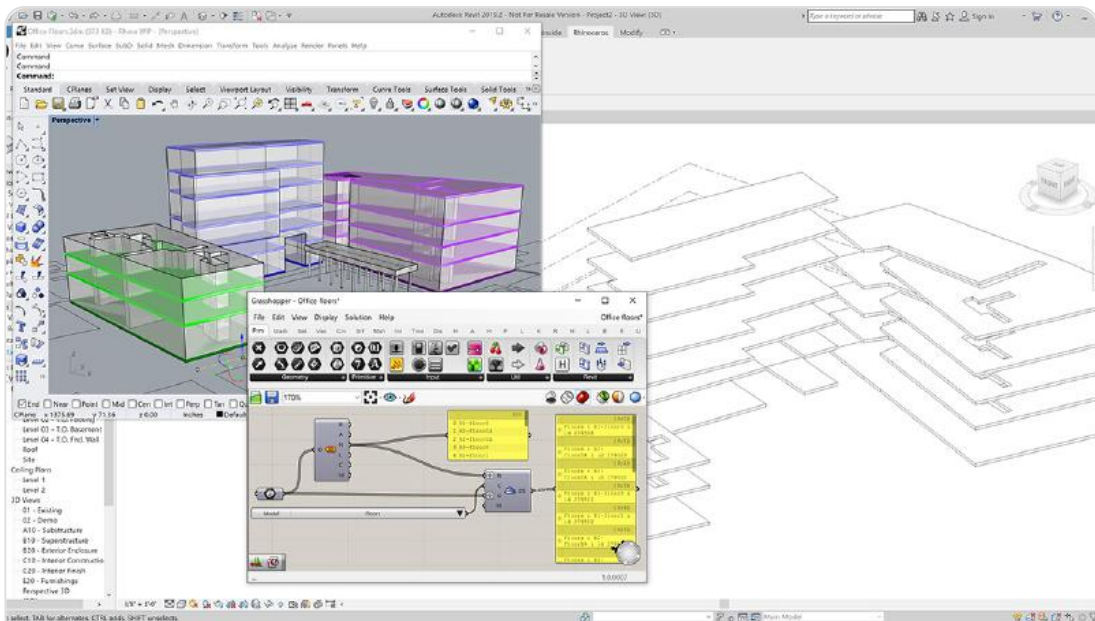
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Rhino.Inside

Access Rhino and Grasshopper within other Windows applications



Rhino.Inside.Revit

Run Rhino and Grasshopper within Revit.

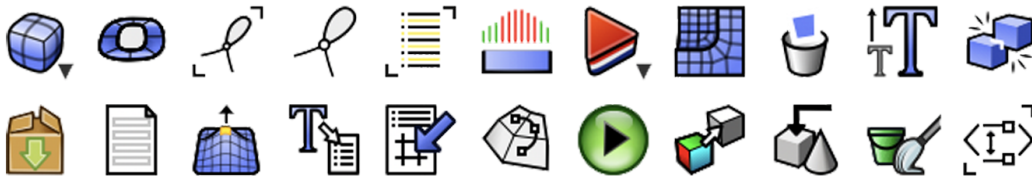


RhinoCommon

APIs for SubD, QuadRemesh, PBR Materials, and much more...

And More

Looking for a complete list of new commands? If you're not seeing what you're looking for above, please check out the documentation's [New in Rhino 7](#) for a complete list...as well as new command options.



[All the new commands...](#)