

## Class Summary

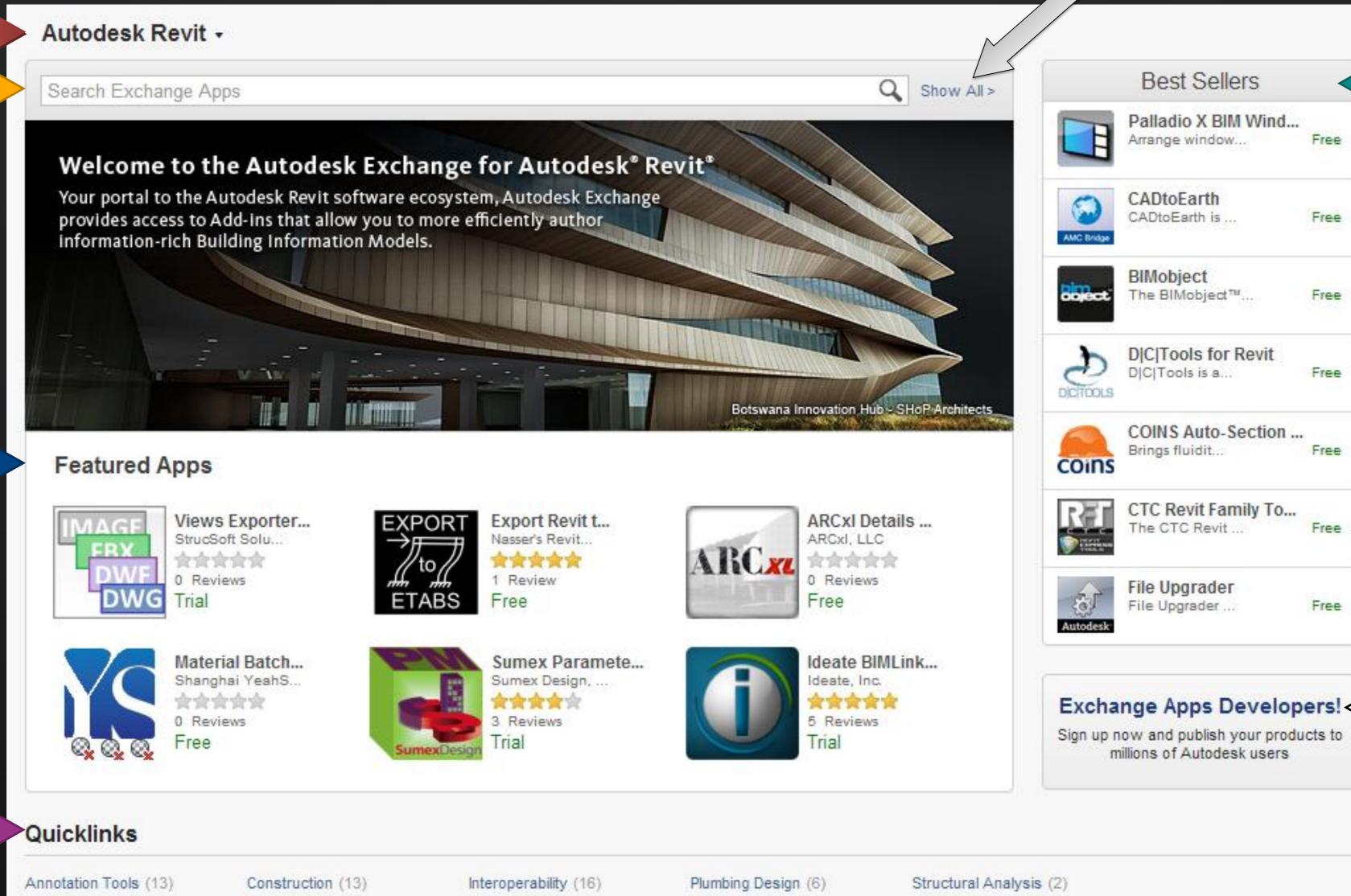
- AB2536 Have you ever wondered what some practical everyday uses might be for the Autodesk Revit API? This class is designed to explore the many applications that are currently available through Autodesk Exchange. The class will also explore custom-built applications for Revit software as well as mobile applications. This class will focus on how firms can use applications to create an efficient workflow and improve project documentation. Applications are allowing us to rethink the design and documentation process. Participants will leave the class with a list of free applications that they can use to optimize their architectural workflow.

## Learning Objectives

At the end of this class, you will be able to:

- Find new apps for Revit 2013
- Use apps to increase project efficiency
- Explain how a mobile app can contribute to architectural workflow
- Describe the possibilities for making custom apps with the Revit API

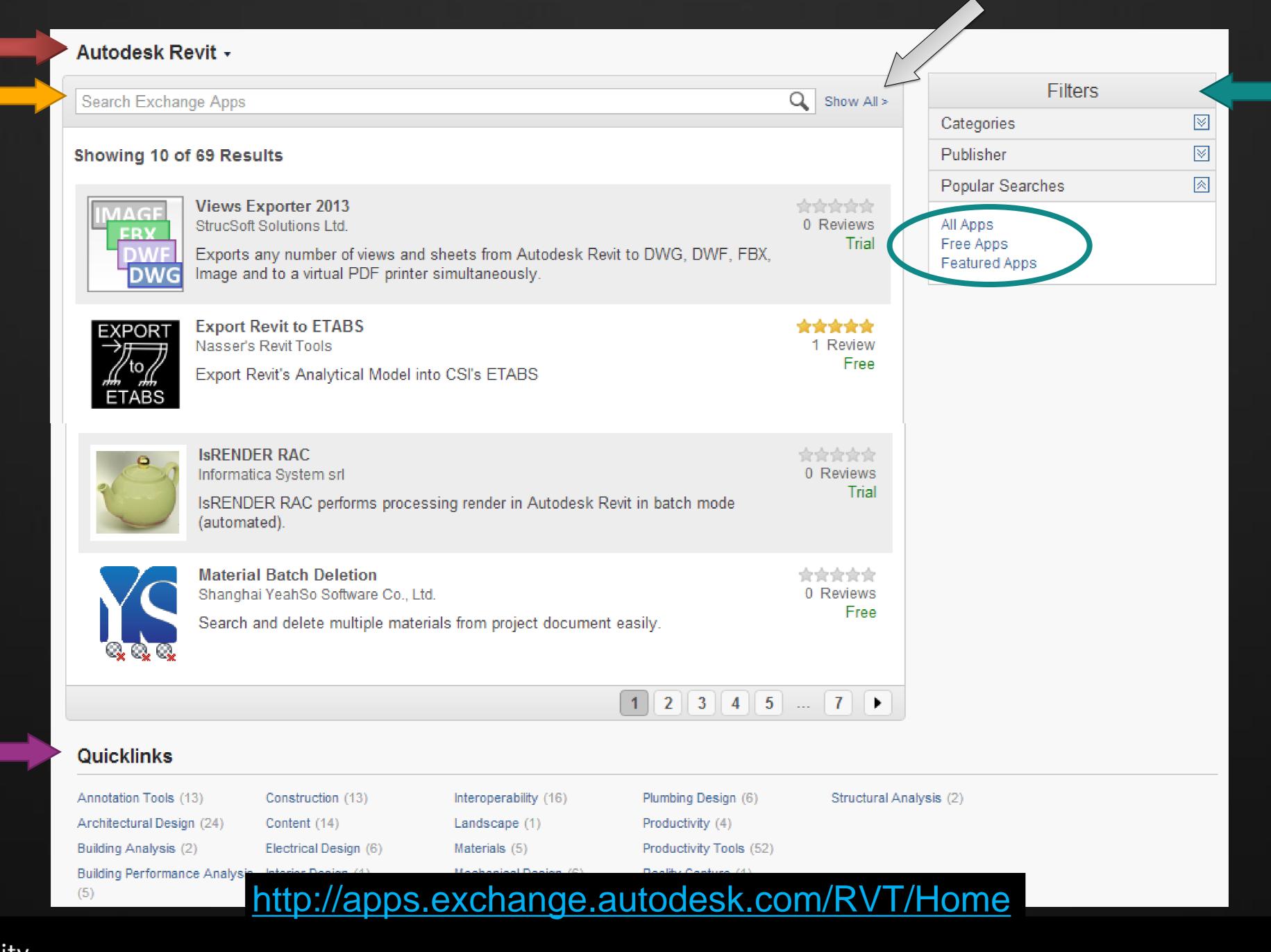
# Who likes shopping Online?

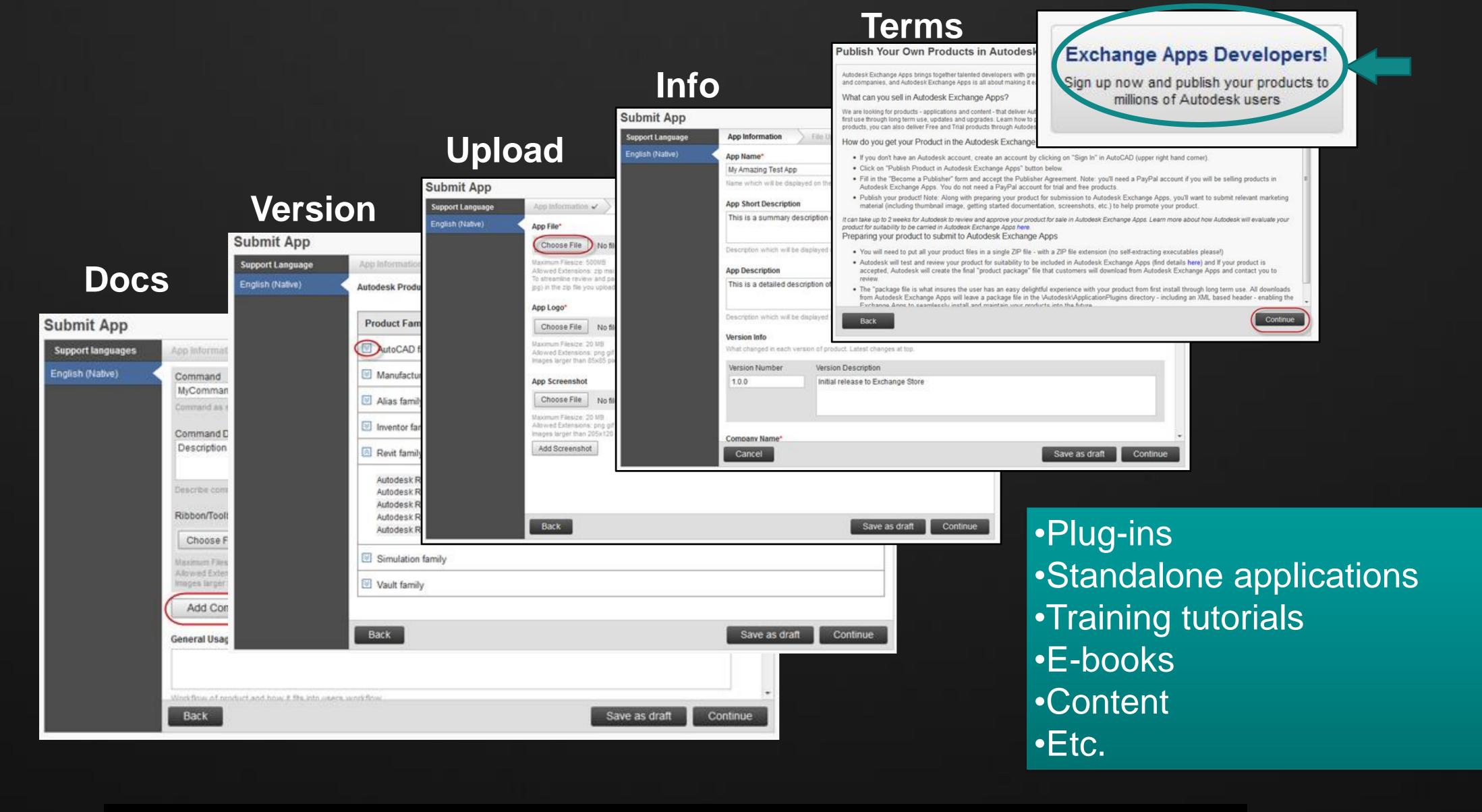


Architectural Design (24) Productivity (4) Content (14) Landscape (1) Materials (5) Productivity Tools (52) Building Analysis (2) Electrical Design (6) Building Performance Analysis Interior Design (1) Reality Capture (1) Mechanical Design (6)

http://apps.exchange.autodesk.com/RVT/Home

**AU** Autodesk University





http://usa.autodesk.com/adsk/servlet/item?siteID=123112&id=20149658

**AU** Autodesk University

# Comprehensive listing RevitAddOns.blogspot.com By Tim Grimm

Revit Add-ons

The one-stop resource for Revit add-in applications



## A quick note about installs...

Per Users - C:\Users\\*\*\*\*\AppData\Roaming\Autodesk\Revit\Addins

For Everyone - C:\ProgramData\Autodesk\Revit\Addins\2013

```
*Files Required...
.Addin
.dll
```

CP3766 - Tying All of Your Autodesk® Revit® Add-ins into a Pretty Little Ribbon

# Lets shop!



# AMC Bridge

Name: CAD to Earth

By: AMC Bridge LLC

**Price:** Free

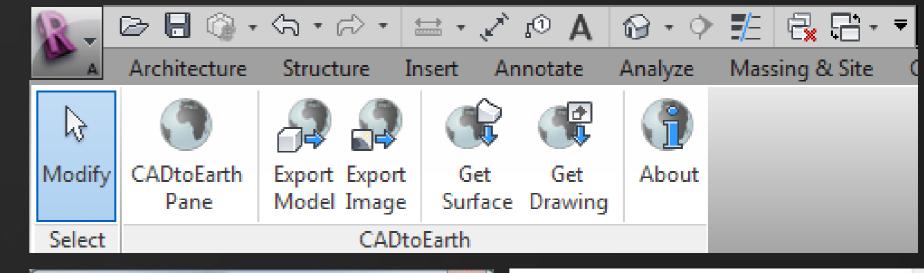
Rating:

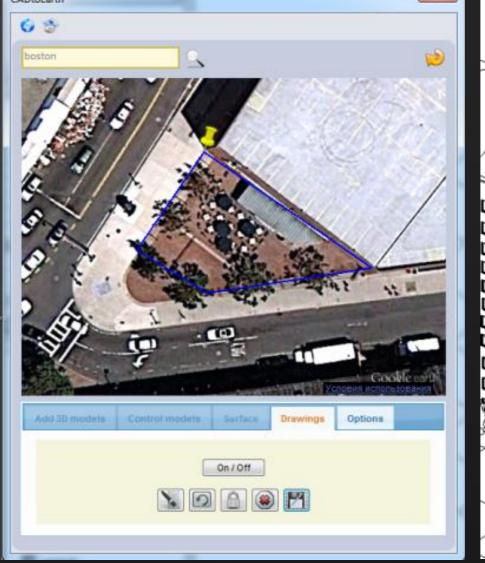
Concept + Features: Upload a model directly from modeling session onto Google Earth or Microsoft Virtual Earth. Import a section of the surface of the Earth directly from Google Earth into modeling session. Position your 3D structure on the imported surface within modeling session and then upload it back to Google Earth or Microsoft Virtual Earth. Perform the same operations on 2D objects in modeling environment and Google Maps

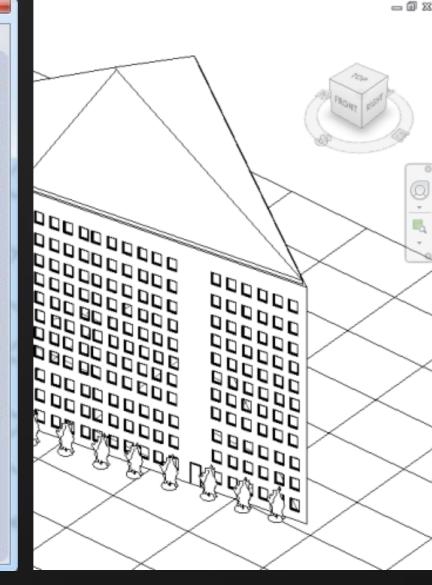
**Pros:** Great way to get topography into your Revit model. Bring in a CAD mesh and choose it for topography by CAD, done! Also, converts file to .kmz for upload to Google maps.

Cons: I had a tough time getting the other features allowing upload to Google maps to work. And the install requires a browser plug-in for Google earth.

### Quick Look:









Name: DigiPara Elevatorarchitect

By: DigiPara GmbH

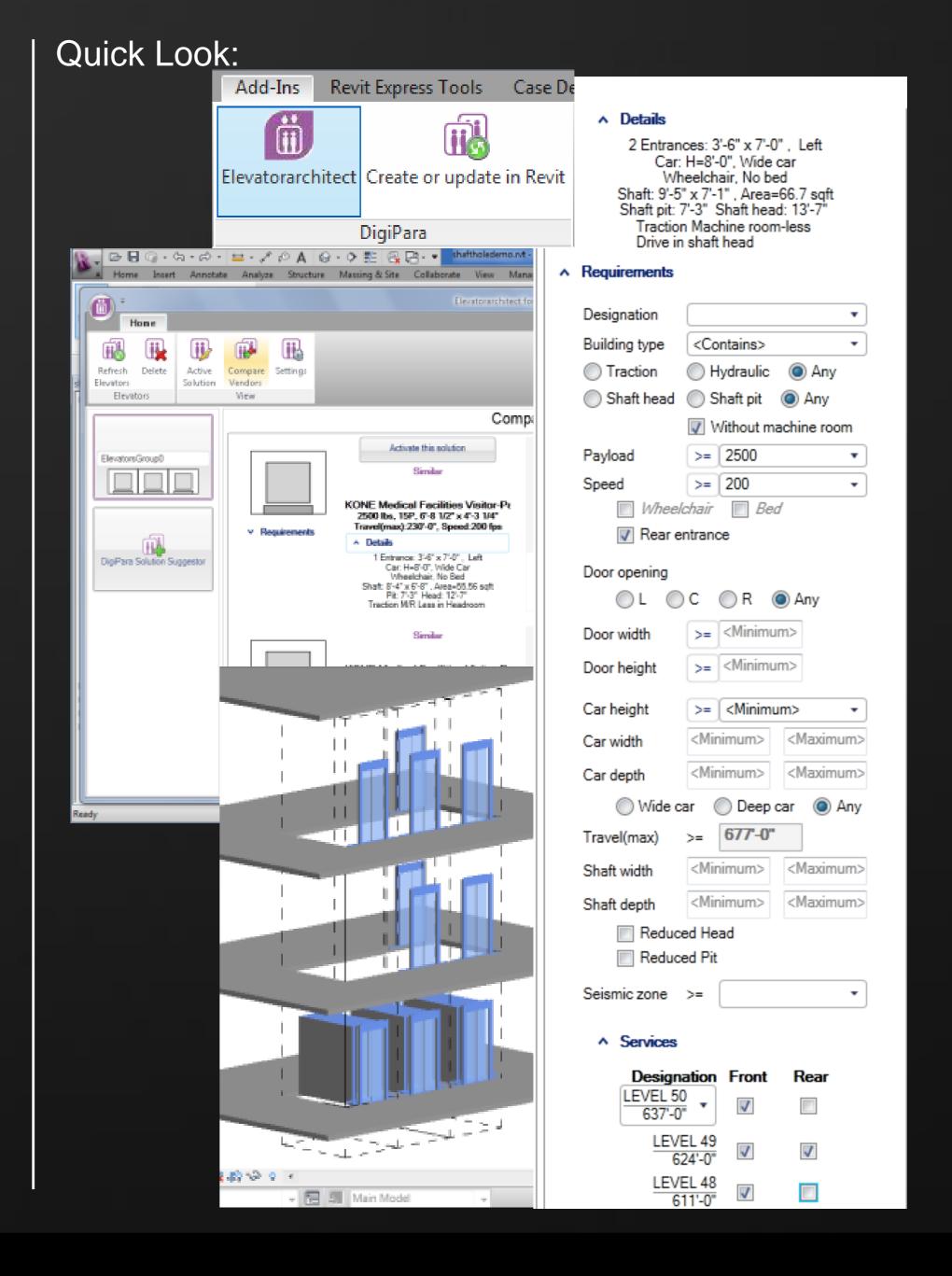
**Price:** Free

Rating:

Concept + Features: It supports Revit users in finding the correct size and number of required elevators and professionally guides them to the point of reaching an optimal 3D Revit model. DigiPara Elevatorarchitect greatly simplifies and enhances the design workflow as the placing and adjustment of single Revit families are eliminated.

**Pros:** Lots of options to configure to get something in place quick. Most needed possibilities are available. (Custom configuration coming March 2013!)

Cons: Each elevator is made of many individual components not one per elevator, but given that this is all managed by the add-in, not such a bad thing.



Name: Revit Works Door Factory

By: Revit Works Ltd

**Price:** \$595 US - \$3,870 US (Based on # of Users)

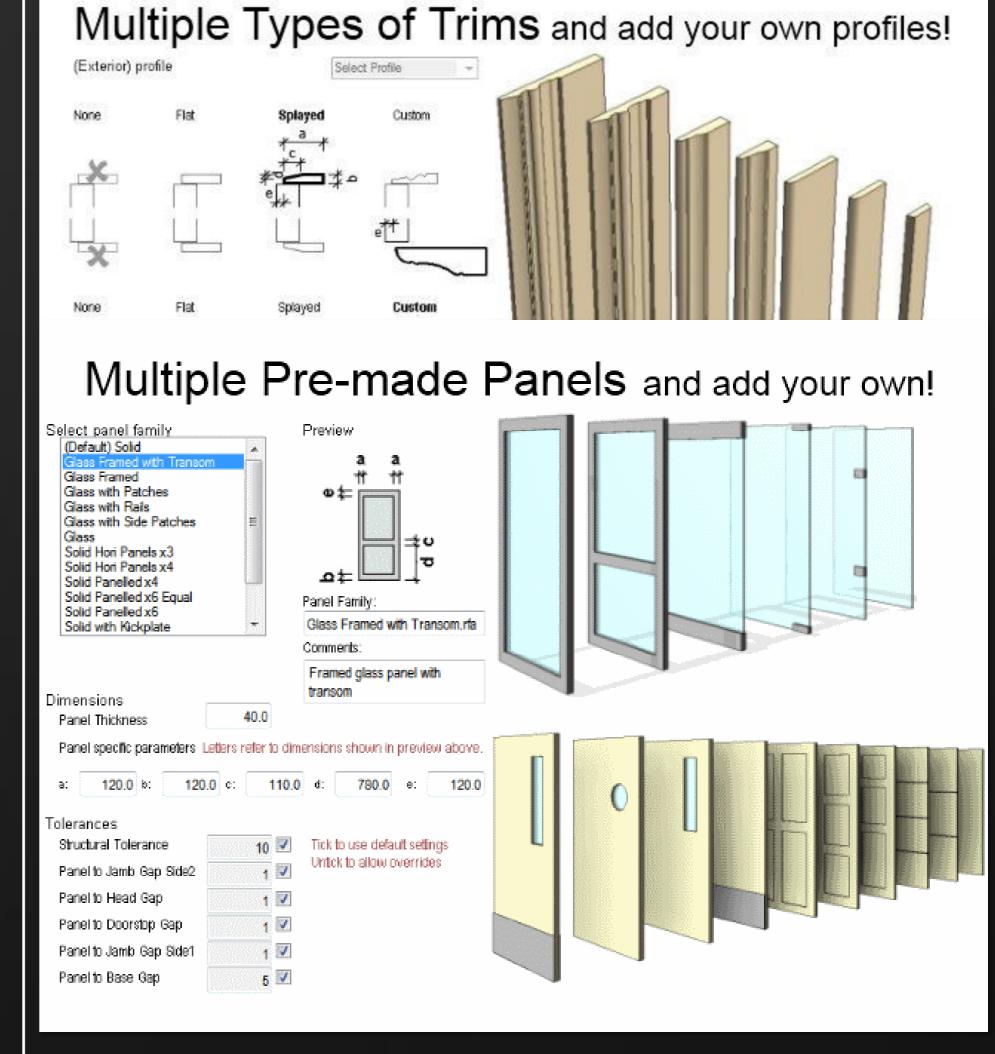
Rating:

Concept + Features: Create almost any door you want in seconds without going into the family editor. The Door Factory not only simplifies the creation of doors, it creates doors that are incredibly easy to use. Save time by creating doors as and when you need them, allowing you to stay focused on your design. Achieve consistency for all the doors in your project.

**Pros:** This provides the backbone of creating your own office standard for any door and allows almost infinite customization. Documentation of how the system works so you can customize is explained well for this complex tool.

**Cons:** Would be nice if you could automate the making of door iterations. But this is an awesome tool!

## Quick Look:



**AU** Autodesk University

Name: Family Browser

By: Kiwi Codes

**Price:** \$250/Site Location/Year

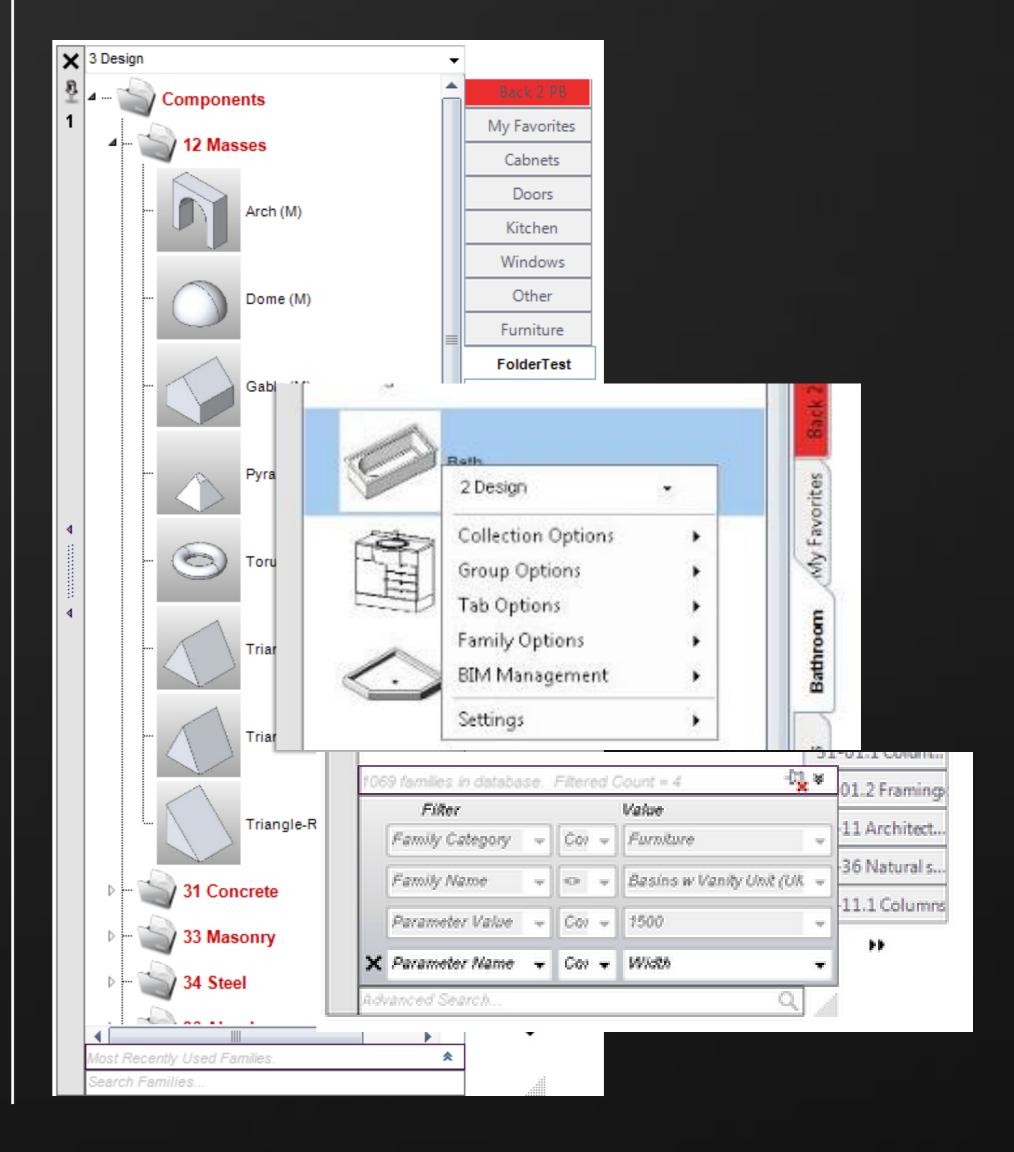
Rating:

Concept + Features: A browser with organization 4 levels deep via selection sets, groups, tabs and sub-folders. All families are indexed for simple and advanced search. Once located the families can be dragged and dropped in to the project even type specific.

Pros: Easy Setup / Quick Setup / Deployment wizard / Library organization

Cons: The setup of Groups, Tabs and subfolders could be better with a management console (coming soon). Advanced Search can be sluggish on library of 1500+ Families but works fast enough to be useful.

## Quick Look:





Name: D|C|Tools for Revit

By: D|C|CADD

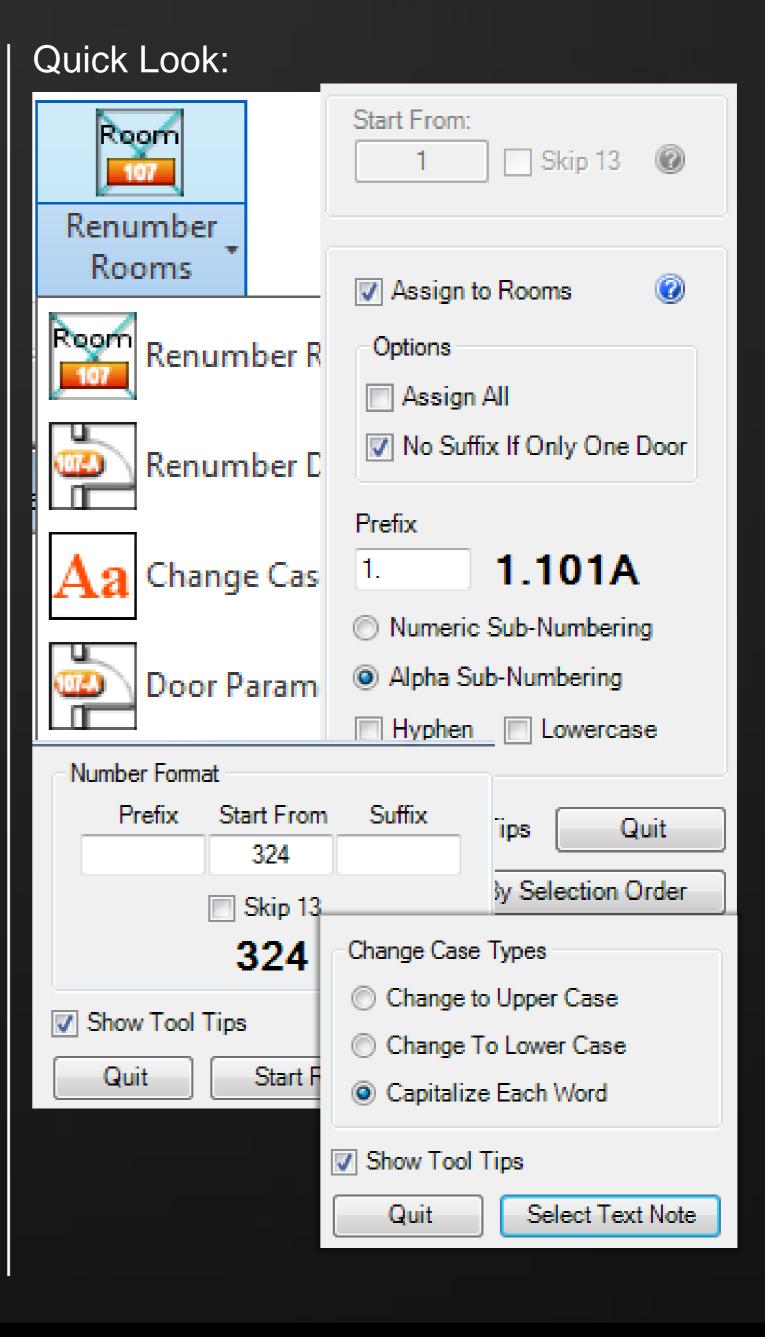
**Price:** Free

Rating:

**Concept + Features**: These tools include: Room Renumber Tool -Renumbers rooms in the order you select them. Door Renumber Tool -Allows you to renumber doors by selection order or by the room into which they swing. We also include an option that omits the suffix if a room has only one door swinging into it. Change Case Tool - Text notes can be changed to all upper case, all lower case or you can capitalize every word in the note. Door Parameters Tool This tool updates the "to-room" and "from-room" parameters for every door in the project.

Pros: Offers suffix and prefix options for numbering rooms. Allows for more manual renumbering of doors or an automated based on door swing.

Cons: Could cover more categories and have a type / instance option. (All coming soon!)





Name: Coins Auto Section Box

By: COINS

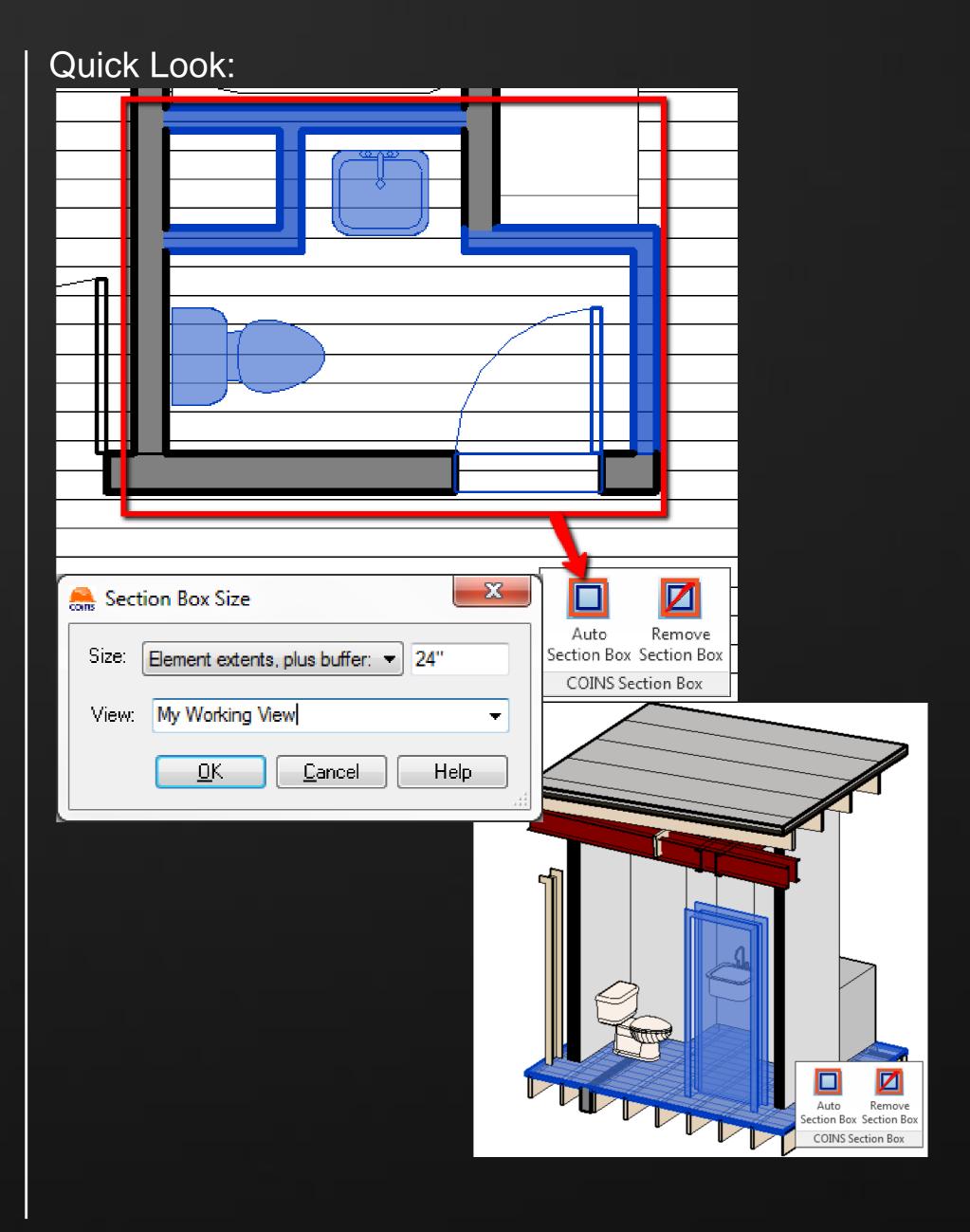
**Price:** Free

Rating:

**Concept + Features**: The COINS Auto-Section Box tool allows you to quickly create temporary and permanent views to be used for immediate interrogation of the model or for construction document deliverables. This works by allowing you to focus on the model instead of managing views or a view's properties.

**Pros:** Add a keyboard shortcut or to the QAT and this tool gives you another level of visual clarity at a moment's notice! The process of creating 3D specific views is now made easy.

**Cons:** One minor note to create auto section box in a camera view the tool must be activated from a 3d view and then choose the camera view to auto section box.



Name: Palladio X BIM WindowsLayout

By: Mensch und Maschine acadGraph GmbH

**Price:** Free

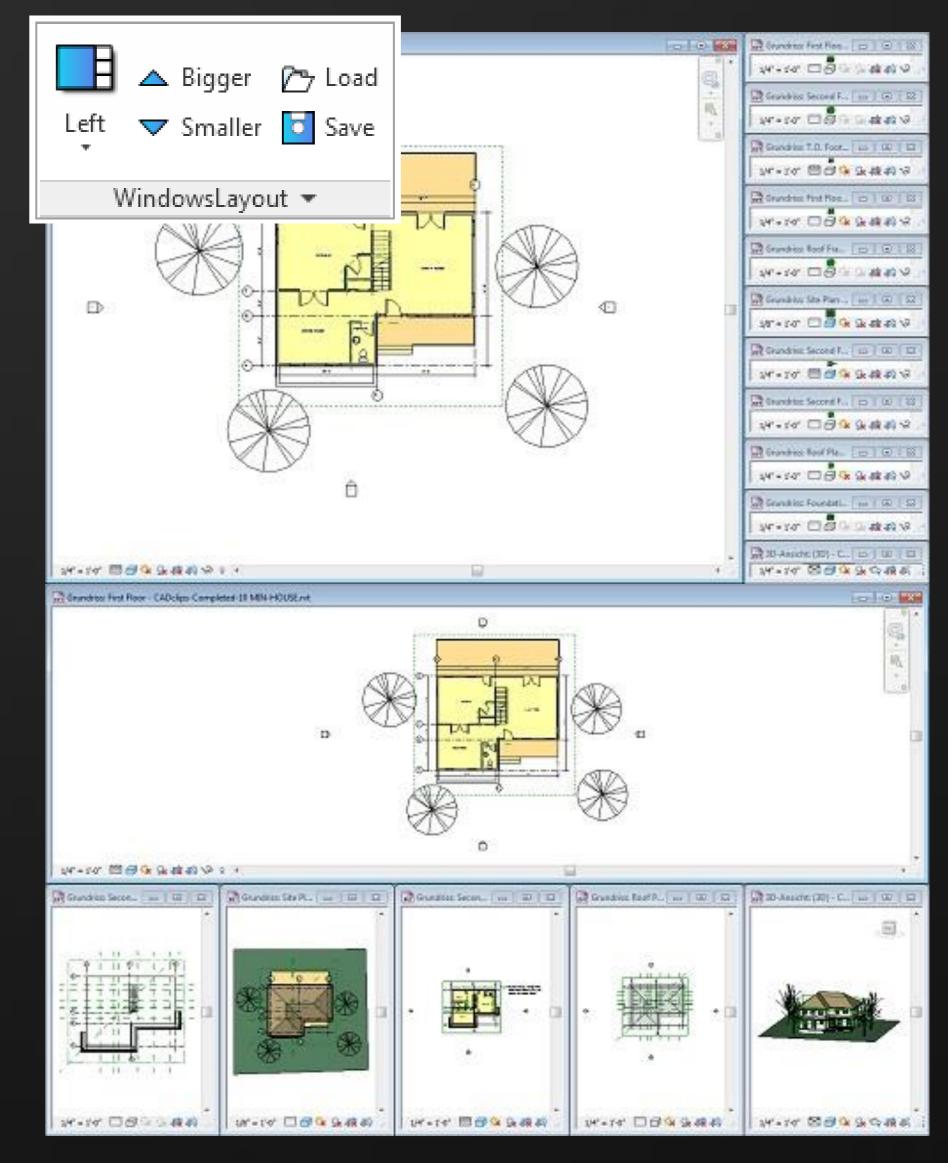
Rating:

Concept + Features: PXBIM Windows Layout assumes that you want the active window to get most of the screen space. You can give 20 to 80 percent of the screen space to the active window while the inactive windows will arrange in the remaining space. Additionally, you can save and restore your window configuration. Optionally, you can decide if you want the re-arranged windows to be zoomed in or not.

Pros: Quickly adjust the size of all windows while keeping one larger than the rest.

Cons: Needs more layout abilities like saving named view configurations.

## Quick Look:





Name: Hatch22

By: Mertens 3D

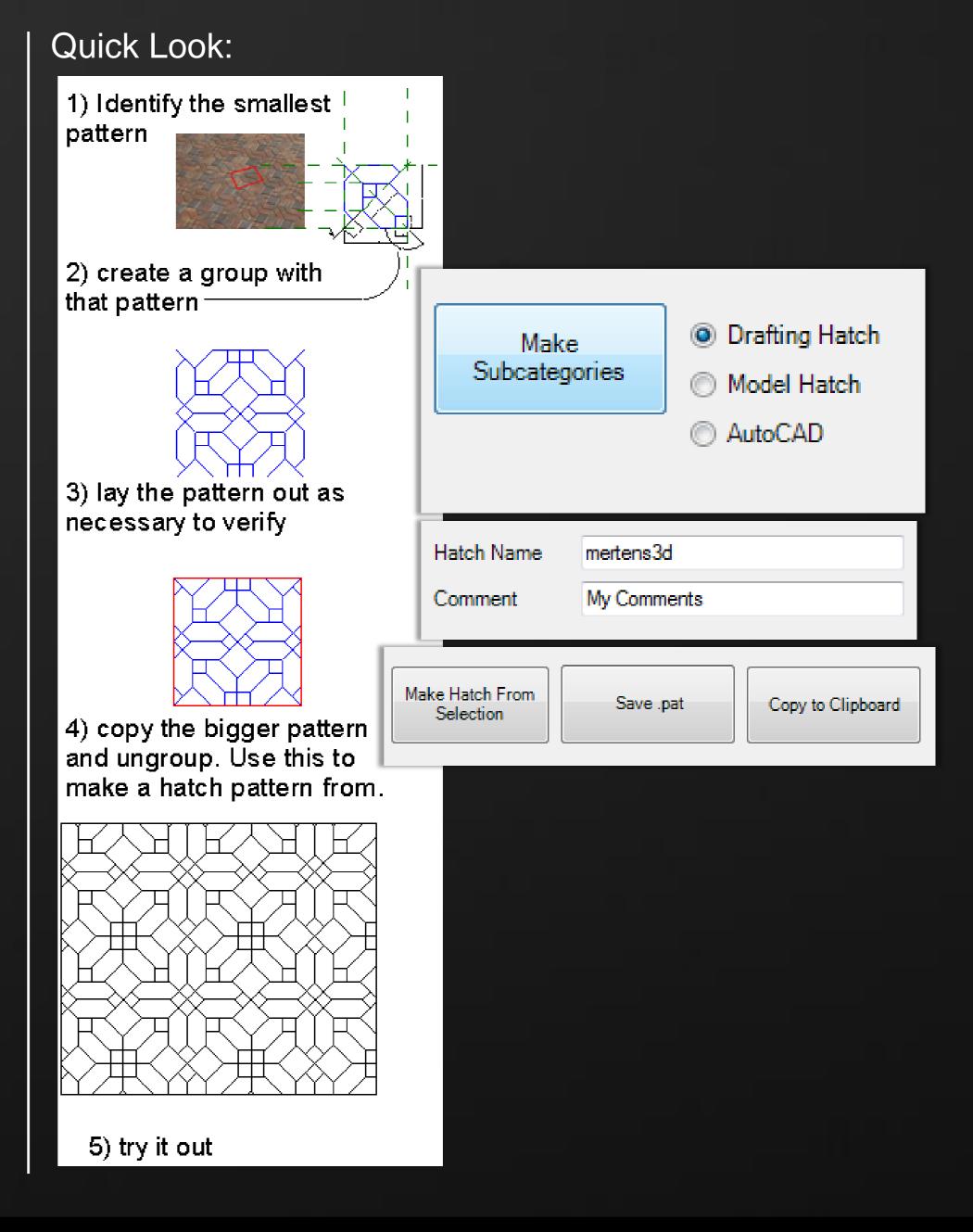
**Price:** Free

Rating:

**Concept + Features**: Hatch22 is a free Revit Addin utility that helps you to create model and drafting Fill Patterns/ Hatch Patterns. Line types are added to your project to enable you to draft the pattern you wish to be converted to a .pat model or drafting pattern. Once converted the pattern file can be imported as a custom pattern and applied to materials and filled regions.

**Pros:** Relatively easy to create any pattern by simply drafting it. It's easy to combine into one file with a copy/paste feature if you have one standard pattern file.

Cons: You must right click on the addin and dll files to unblock them in the properties menu before they will work.



Name: RTV Xporter

By: RTV Tools Limited

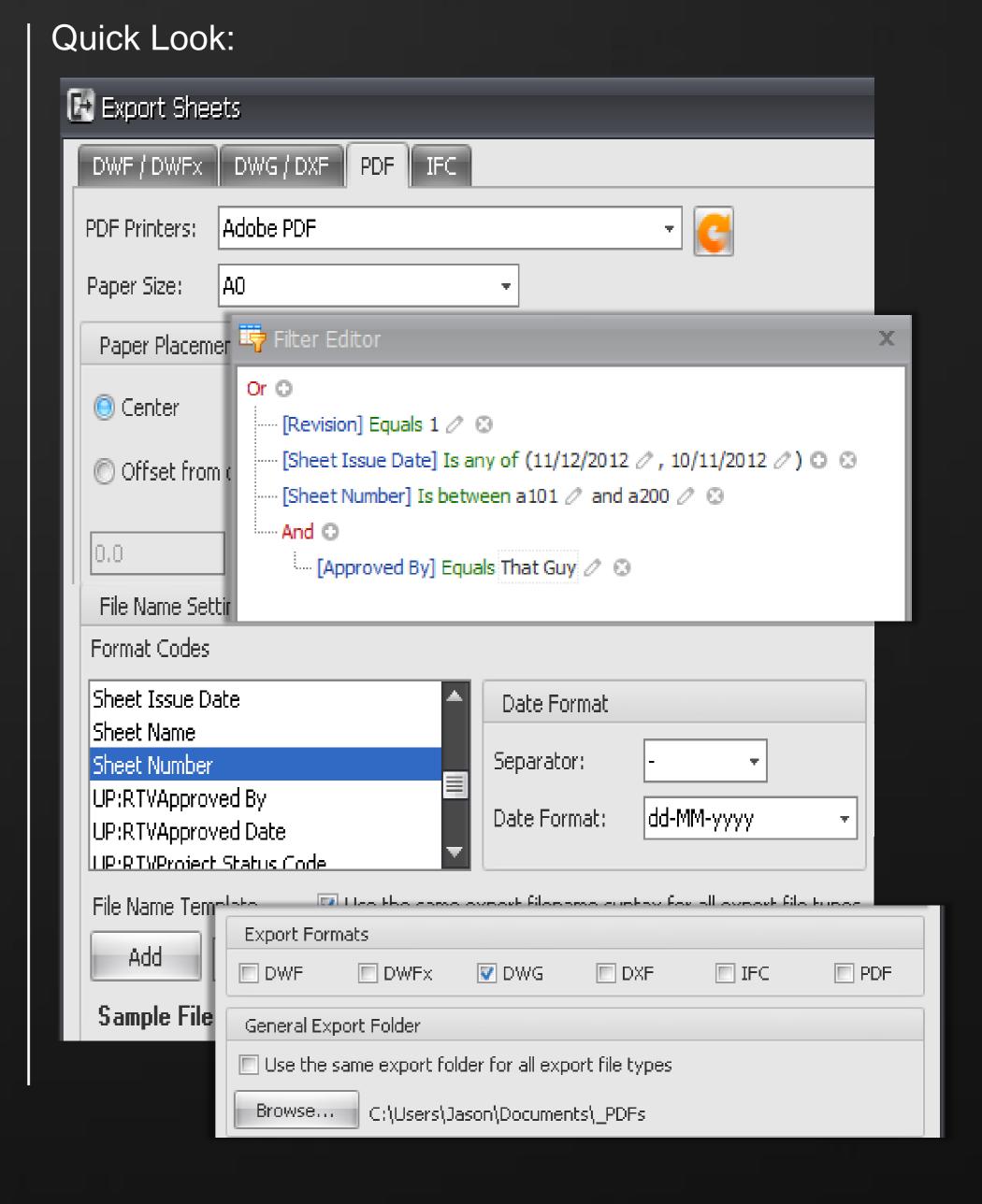
**Price:** \$ 9.99

Rating:

Concept + Features: Quickly browse, search and filter Revit® drawing sheets and views using the intuitive RTV Xporter user interface. Automatically saves the exported files to match any company's or project team's file naming conventions with ease. RTV Xporter also supports batch printing to two separate printers simultaneously.

**Pros:** Refined print / export features including export multiple file types and print to multiple in one pass, plus savable filter settings! Filter is robust with much more flexibility than you see in Revit. Great time saver!

Cons: none so far.





Name: Delete Views Sheets & Links

By: Case Apps

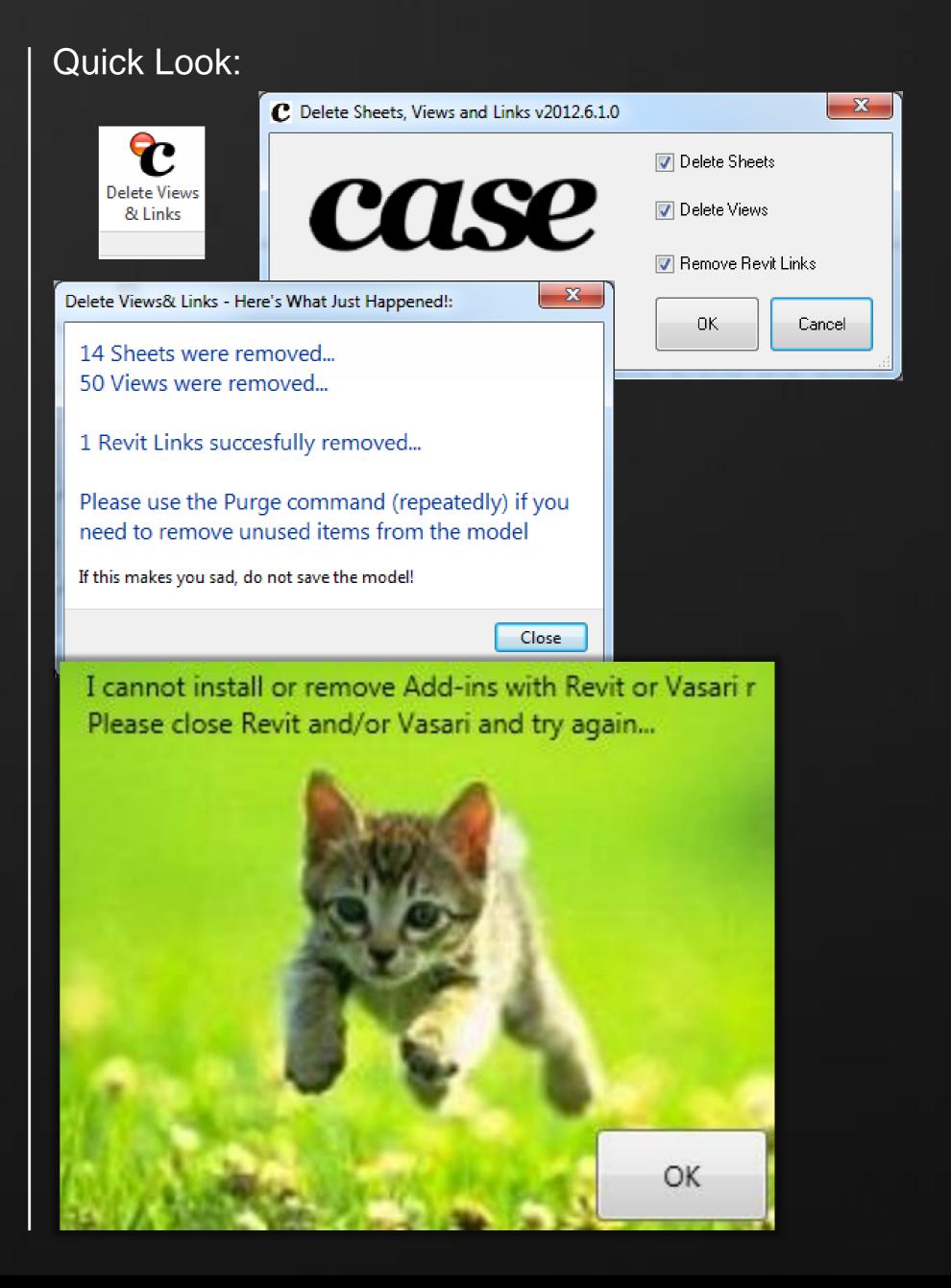
**Price:** Free

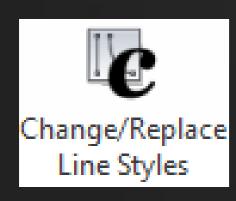
Rating:

Concept + Features: Delete Sheets, Views and Revit Links does just what it says. You can select which of the three options you chose using the provided check-boxes. This tool should only be used on models detached from central as it can be quite destructive.

**Pros:** Simple and it does what it's called! Plus it's free!

Cons: Would be nice if it could do more custom prep in case you want to keep certain views or links for coordination. It could be more robust if it is for file exchange.





Name: Change and Replace Line Styles

By: Case Apps

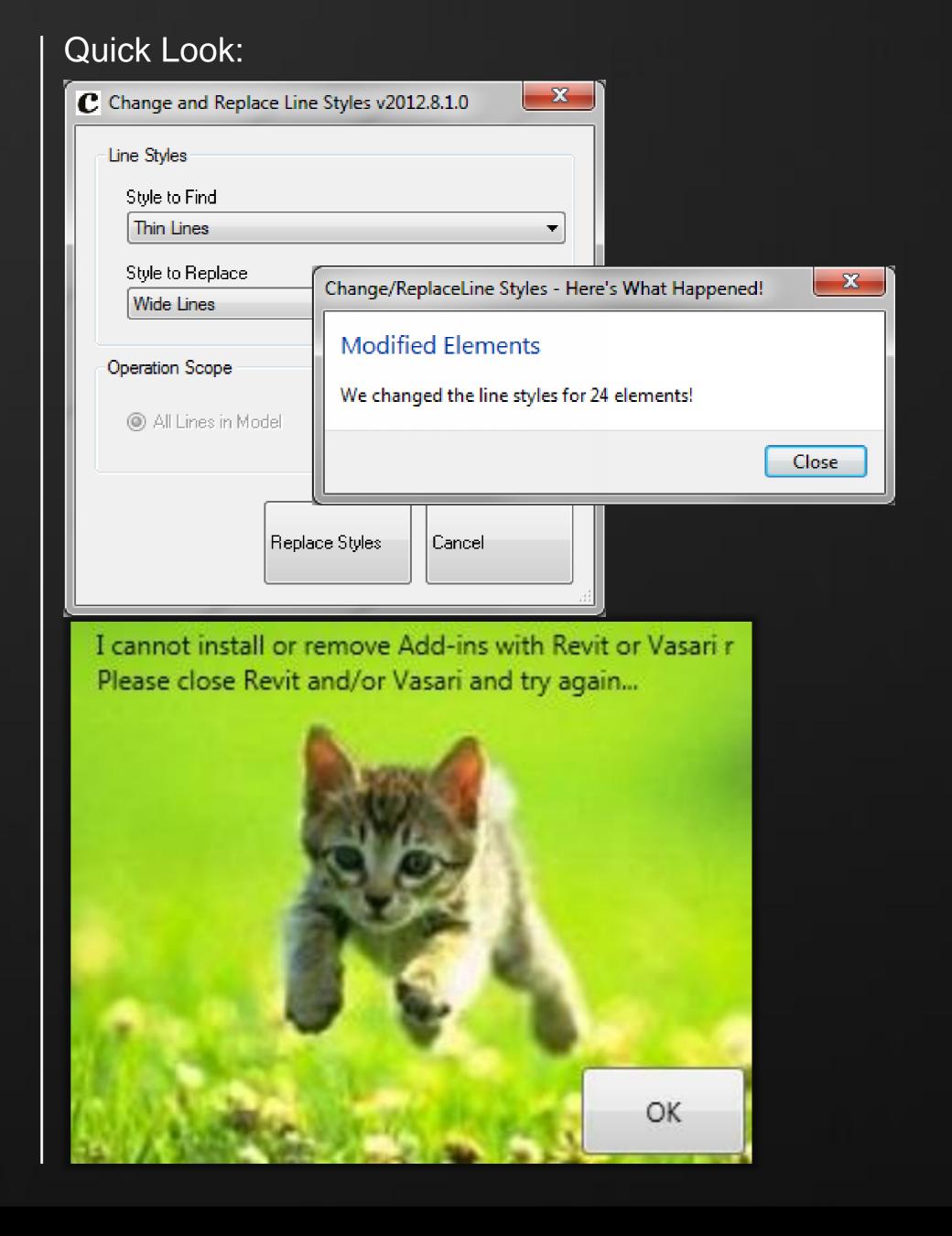
**Price:** Free

Rating:

Concept + Features: Have you ever imported a DWG file into your model and got a bunch of unwanted line styles? Have you ever wanted to quickly change those line styles to your standard styles already loaded into your model? This little guy does just this!

**Pros:** Another simple but effective tool. Great for cleaning up a file.

Cons: Could be better if you could intercept files being imported by default and prompt the user.



Name: AR-media™

By: Inglobe Technologies

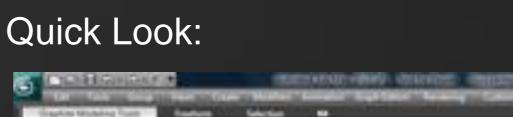
**Price:** € 99.00 Pro Lite / € 249.00 Pro

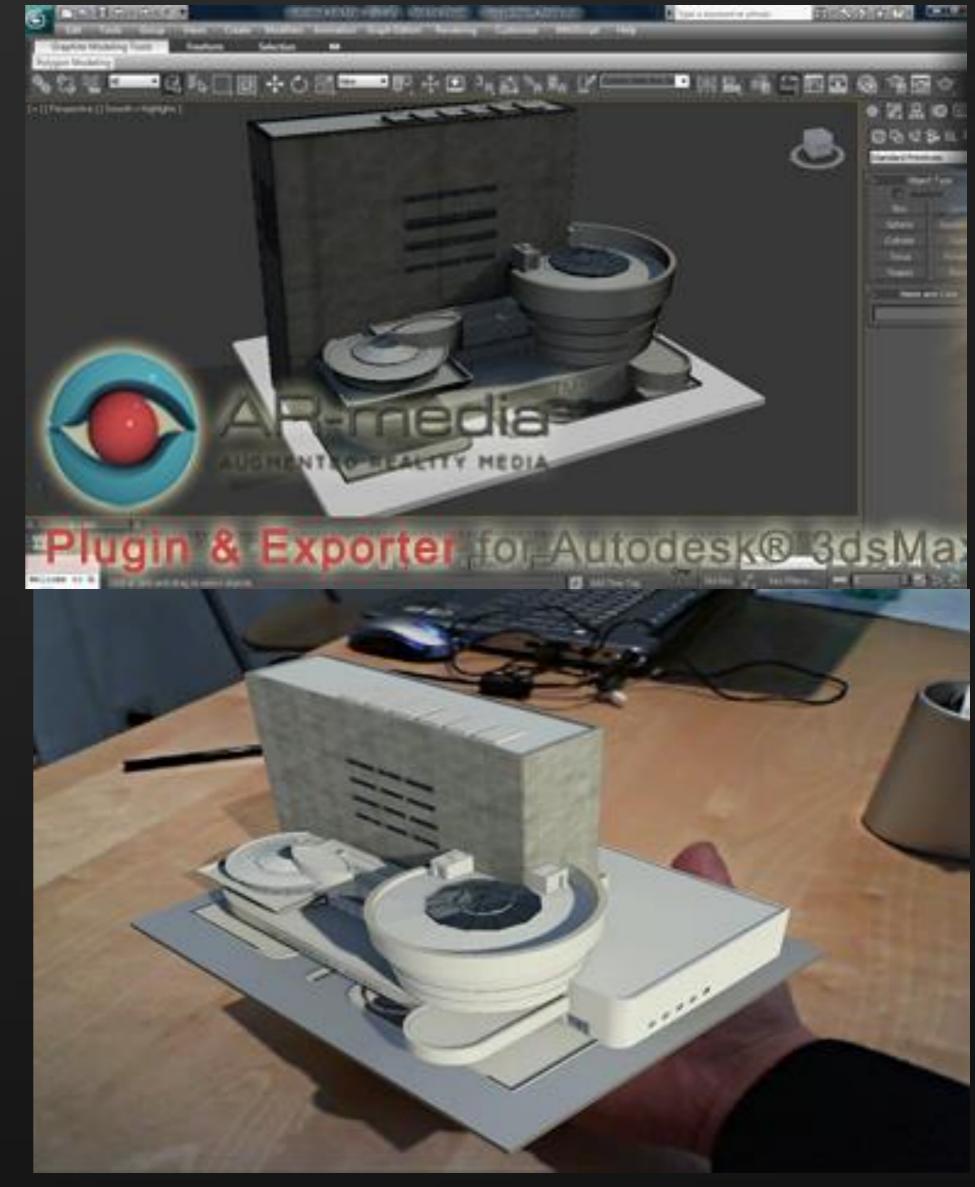
Rating:

**Concept + Features**: Simply stated, the Augmented Reality technology allows users to visualize their 3D creations directly in the real physical space which surrounds them. Geo-located models for iOS devices: you can now use iOS Player to display virtual models in the real world without any marker. With support for animations, shadows, clipping planes and more.

**Pros:** Great tool for getting a real context for your design whatever it may be. Easy to use and share with others. You can use markers or place something via geo-location making it possible to visualize a building on site just by sending an email to your iPad.

**Cons:** No direct conversion from Revit (said to be coming by AR-media)







# Thank You, Questions?