

Generative Design in Rhino 3d



Generative Design In Rhino 3d

In this video

- What is it?
- Building a script
- Setting up a study
- Running a study
- My thoughts



Files are on
github

<https://github.com/aussieBIMguru>

Revit 2021



Note: Requires the **AEC Collection**

Rhino Inside



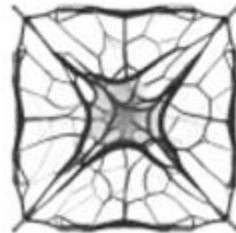
rhino inside



Rhino Inside, Part 1

Revit elements into | **23:53**

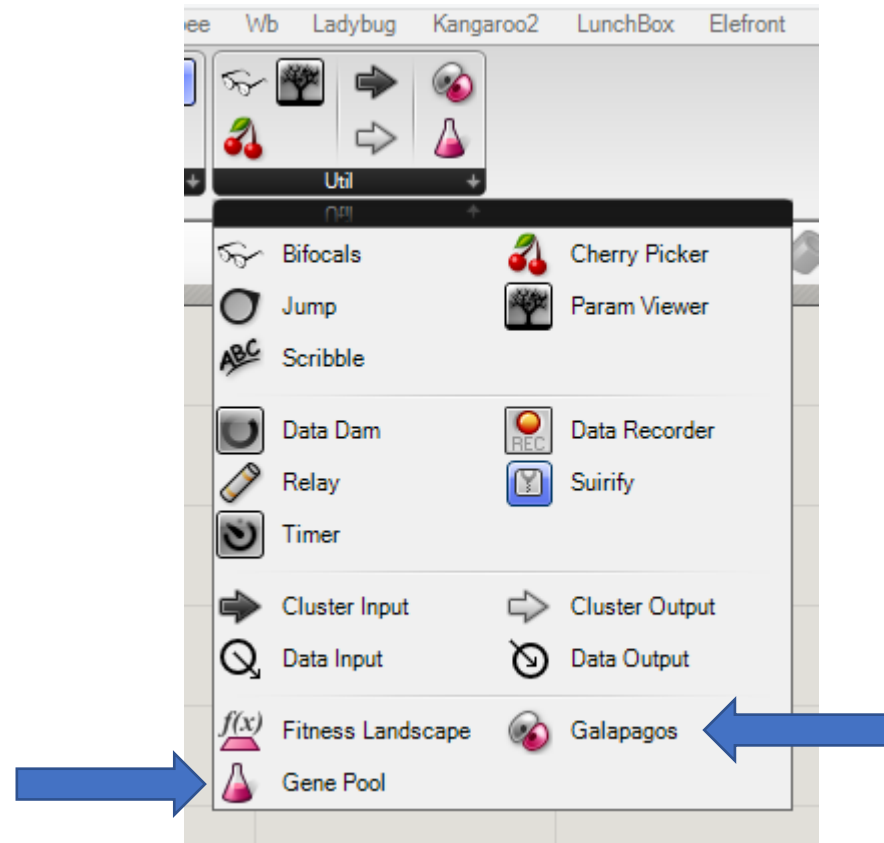
Rhino 3d Solvers



Proving Grounds

Free Generative Design – A brief overview of tools
created by the Grasshopper community

Galapagos



Galapagos

Evolutionary solving at work



Domed



Intermediate



Saddle Back

General Principle

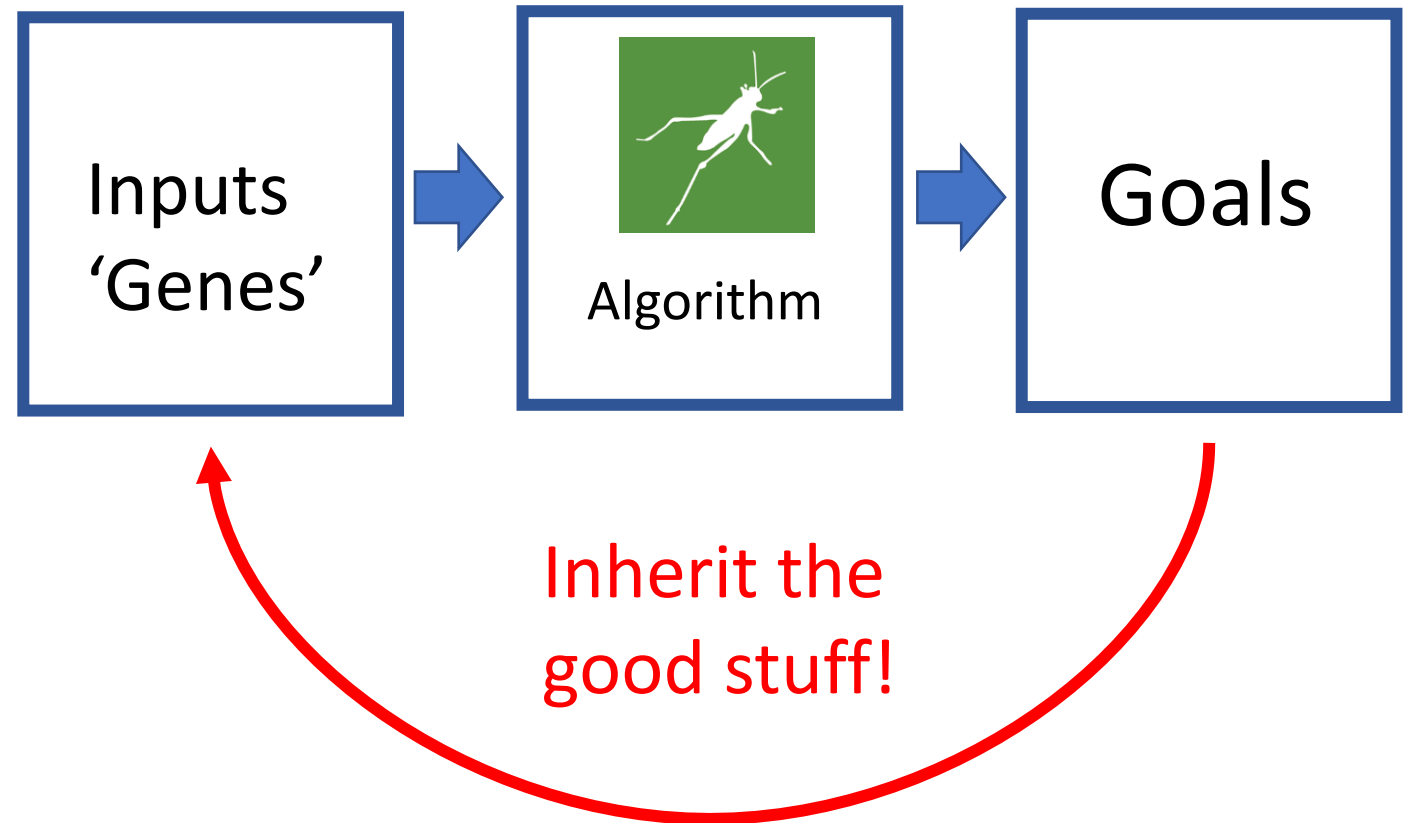
We randomise our inputs,
and **re-run** our study



We collect measurable **goals**,
usually what we call 'fitness'

General Principle

Future evolutions will **inherit**
more successful **genes**



General Principle



Run 1

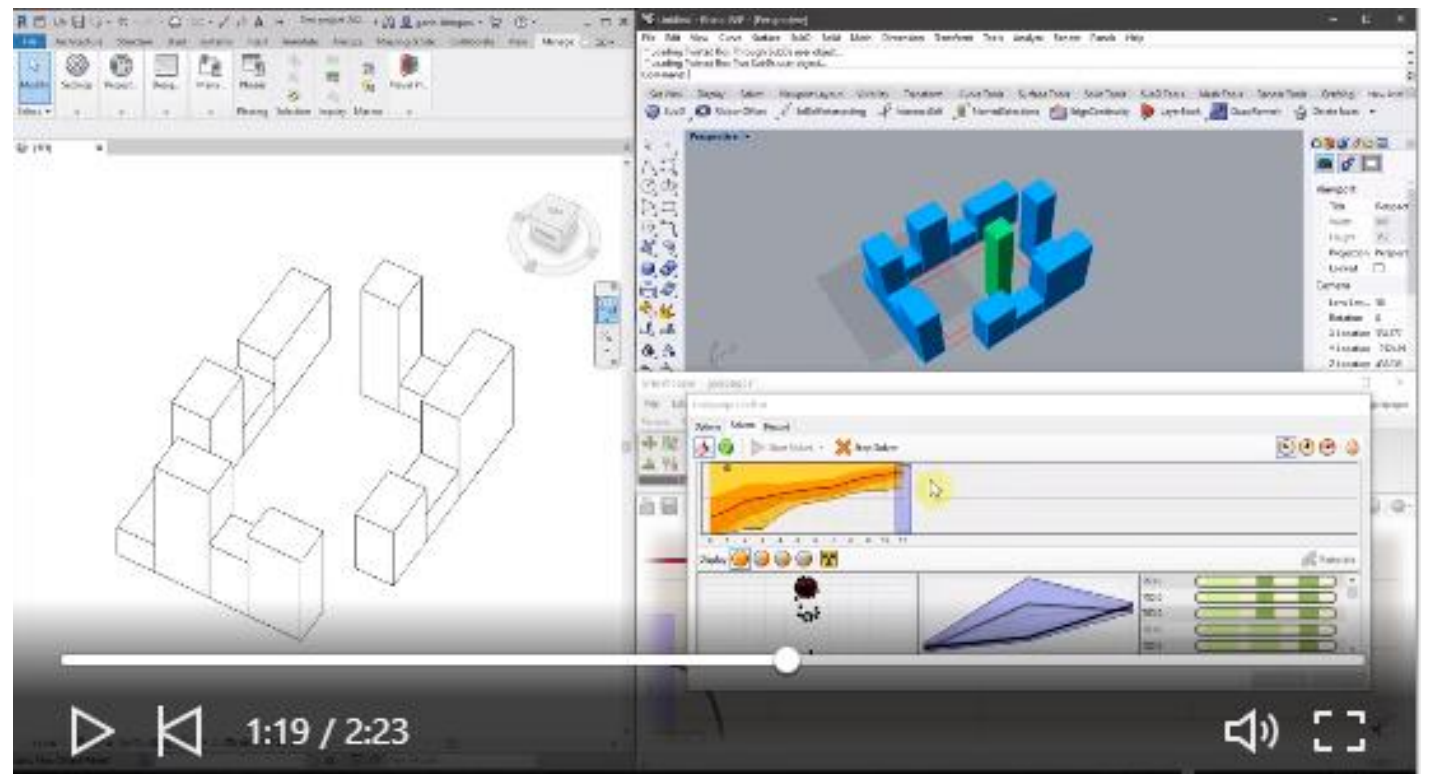


Run 100



Run 1000

Demonstration



My thoughts

The good

- Lightning fast
- Easy to set up, use and run
- Good gateway to other tools

The bad

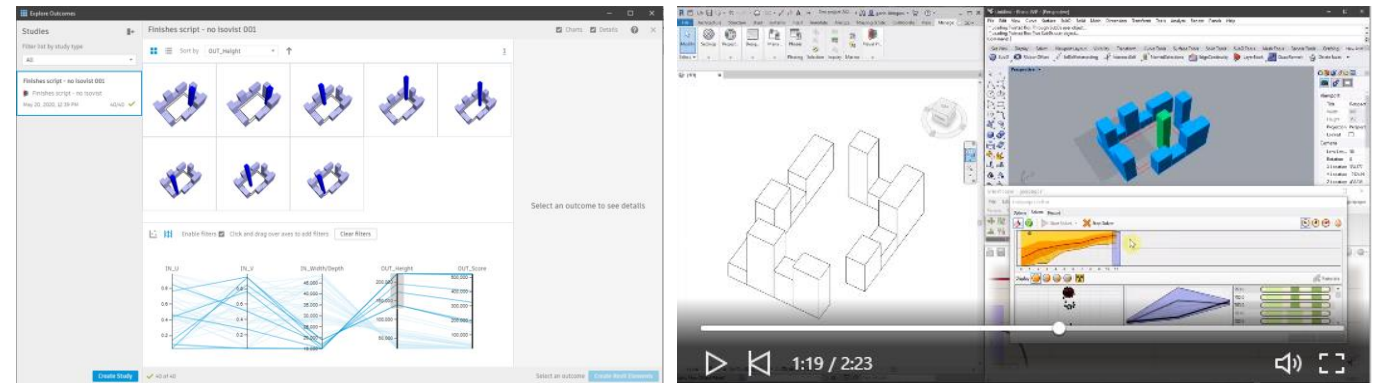
- Single goal of fitness
- Fairly random in approach

The ugly

- UI is not friendly for non-users
- Speed might scare designers

Future Videos

A quick side by side comparison.





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