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Cityengine Cga  
Rules

# Cityengine Cga Rules

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## **Cityengine Cga Rules**

In the beginning of the year, the CityEngine team published a variety of CityEngine rules to demonstrate what can be done with Computer Generated Architecture (CGA).

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## Cityengine Cga Rules

This blog lists each rule, a brief description of the rule, where to download the rule, and where to find each rule's accompanying video.

### **CityEngine Rule of the Week - ArcGIS Blog**

CGA changelog | Annotations | Asset search | Built-in assets | Context and occlusion queries | Euler angles | Texturing. To view the

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## Cityengine Cga Rules

offline CGA reference, click Help > Offline CGA Reference in the CityEngine main menu.

### **CGA reference—ArcGIS CityEngine Resources | Documentation**

CityEngine tries to automatically detect and suggest start rules from a rule file. Use the annotation @StartRule to explicitly mark a rule as a start rule. See

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CGA annotations for more detail.

## **Working with rules—Help | Documentation**

The massing studies generated in ArcGIS Urban can be further advanced and detailed in CityEngine, using out of the box CGA rules for building envelop components (windows, facades, roofs), and street scape and landscape

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elements - to give a better sense of the human scale in the masterplan.

## **Masterplan Design with CityEngine and ArcGIS Urban**

Esri CityEngine .cga Examples. The following are a collection of Esri's CityEngine .cga rule files for constructing 3D landscapes. They were accumulated via CityEngine's tutorials.



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Notes. I do not own and did not author any of this code - All accolades to the staff at CityEngine / ESRI.

## **GitHub - jbdong/CityEngine\_cga: Contains ESRI's CityEngine ...**

- A rule from CityEngine, written in Computer Generated Architecture (CGA)
- The assets associated with that rule
- May be locked, to prevent

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reading of rule code or  
unpackable for code  
sharing. Rule Packages  
= Rules (CGA) and  
Assets

## **Creating Rule Packages for ArcGIS Pro and CityEngine with CGA**

ESRI CITYENGINE  
TUTORIAL PDF - Learn  
how to work with  
typical urban centers  
and develop a  
schematic design for  
this area that meets

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the city's zoning regulations. ... Since writing custom distribution rules for building placement patterns can result in quite complex CGA code, we propose in this tutorial to simply use either point shapes or ...

## **ESRI CITYENGINE TUTORIAL PDF**

This is an updated repository for a modified version of the

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ESRI Complete Street rule by the original rule author. Scenario Oriented Design Tool. Instructions. If you are new to using CityEngine, then the instructions on this page provide step by step instructions on how to open the project or integrate the rule into an existing project.

**GitHub - d-wasserman/Complete\_Street\_R**

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## **Rule: This is an ...**

CGA : What is a rule •

A CGA rule is an instruction to process shapes -à. CGA rules can modify shapes • A and B are shapes • A modified copy of shape A becomes shape B • B is called a leaf shape .  
A --> extrude(10) B

## **developing with esri cityengine**

Using CGA Rules To  
create building  
geometries through

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CGA rules, the following general workflow can be used: In CityEngine, the “Lots” serving as initial shapes for constructing buildings. Lots are either created in CityEngine (drawn or created based on a graph) or imported.

## **Using CGA Rules | GEOG 497: 3D Modeling and Virtual Reality**

Learn how to use and

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author Computer  
Generated Architecture  
(CGA) rules. These  
rules can create 3D  
models representing  
buildings, zoning  
volumes, streetscapes,  
parks, natural  
landscape, and  
various...

## **Creating Rule Packages (RPKS) for ArcGIS Pro and CityEngine with CGA**

City model exported  
from CityEngine as

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FBX® format, using merge by materials. Model imported to Maya® for fine tuning (see image).

CityEngine was used to generate the entire game level along with distributing all assets. The parametric destruction of buildings was also implemented using CGA rules written in CityEngine.

**CityEngine | Success Story | Destroyed**



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## Cityengine Cga Rules

**City**  
PyPRT 3D content generation is based on CGA rule packages (RPK), which are authored in CityEngine. RPKs contain the CGA rule files that define the shape transformations, as well as supplementary assets. RPK examples can be found below and directly used in PyPRT. PyPRT allows generating 3D models on multiple initial

# Read PDF Cityengine Cga Rules geometries.

## **PyPRT - Python Bindings for the CityEngine SDK | Python ...**

PyPRT 3D content generation is based on CGA rule packages (RPK), which are authored in CityEngine. RPKs contain the CGA rule files that define the shape transformations, as well as supplementary assets. RPK examples

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can be found below and directly used in PyPRT. PyPRT allows generating 3D models on multiple initial geometries.

## **Pyprt :: Anaconda Cloud**

Procedural Modeling Core (CGA Shape Grammar Language): CGA (computer generated architecture) rules allow to control mass, geometry assets,

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proportions, or texturing of buildings or streets on a citywide scale. (More details can be seen in the "Procedural Modeling" section.

## **CityEngine - Wikipedia**

The CGA shapegrammar of the CityEngine is a unique programming language specified to generate architectural 3D content. The term CGA

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stands for Computer Generated Architecture. The idea of grammar-based modeling is to define rules that iteratively refine a design by creating more and more detail.

### **CityEngine Scripting - TOI-Pedia**

Rules written with CGA are grouped into rule files that can be assigned to initial shapes in CityEngine.

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For instance, 2D building footprint polygons can be assigned a rule file containing the rules for interactively creating building models from the 2D polygons as illustrated in the figure below.

## **Understanding CGA Shape Grammar | GEOG 497: 3D Modeling ...**

The rule of the week is a way for Esri to share

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the research and demonstration work it does with Computer Generated Architecture (CGA) over the course a year with you.

## **Rule of the Week 1: Building Shell with Detail**

I'm new in using ESRI CityEngine 2011. I read it's tutorials. It was very interesting and helpful for but there is no references or tutorials for how to

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create CGA rules. How  
can I find any tutoria...

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