

Esri® CityEngine®



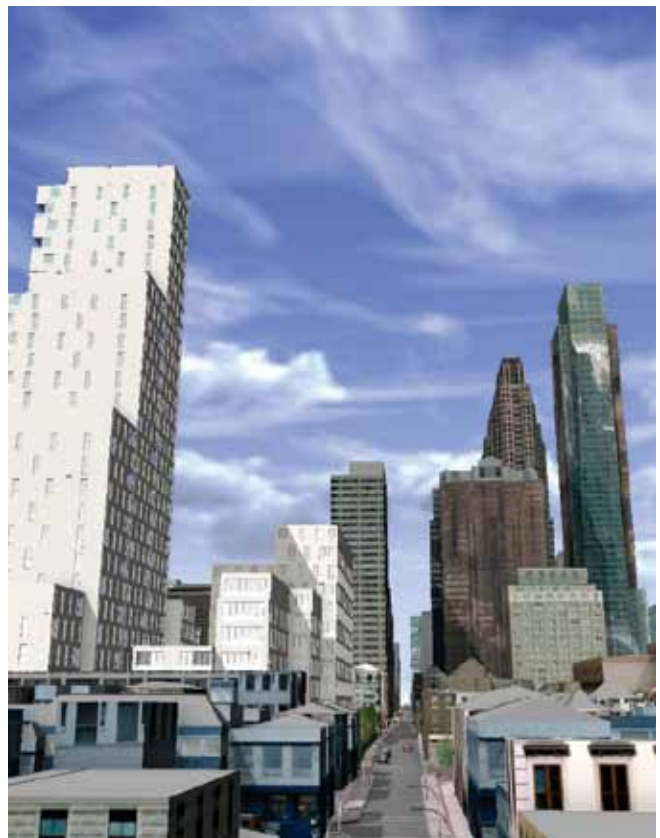


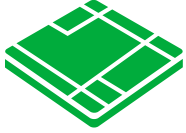


Our World Is in 3D

Create stunning city models in less time with Esri® CityEngine® software—the tool of choice for 3D city modeling in urban planning, architecture, simulation, game development, and film production. CityEngine delivers a full suite of industry-leading procedural tools to aggregate geospatial data, lay out and edit street networks, generate and modify buildings, create 3D road profiles and distribute street furniture, control the shape of the skyline, and analyze urban planning projects.

esri.com/cityengine





Step 1

Geodatabase/2D
Information



Step 2

3D Streets, Blocks,
and Parcels (import
or creation)



Step 3

3D Extrusion, Roof
Generation, and
Street Furniture



Step 4

Texturing and
Façade Creation
(details)



Step 5

Finished 3D City
Shared on the Web
and Updated in the
Geodatabase

Download your free, 30-day trial now.
esri.com/CityEngineTrial



Top Benefits

GIS Data Support (compatible with ArcGIS®)

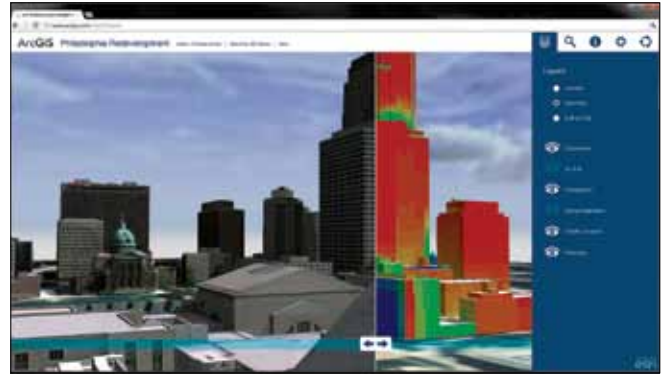
Rapidly build accurate and visually compelling city models by aggregating and enhancing geographic information system (GIS) data using simple drag-and-drop operations. Import and export attributed GIS data such as streets, footprints, or 3D buildings using the Esri file geodatabase or shapefile format. In addition, CityEngine imports real-world data from OpenStreetMap.

Dynamic City Layouts

CityEngine comes with a comprehensive toolset for the quick creation of dynamic city layouts. Intuitive editing tools are provided to design, draw, and modify curved streets, blocks, and parcels—with immediate visual feedback.

Procedural Engine (2D to 3D)

Procedural modeling based on rules offers unlimited possibilities to interactively generate 3D models of buildings or zoning regulations, texture façades, or distribute street furniture on a citywide scale. Rules are authored in the Rule Editor (based on node or text).



Share 3D city scenes.

3D Editor (for multipatches)

Easy-to-use editing tools are provided for quick sketching and texturing of 3D models (e.g., multipatch). The resultant 3D geometries can be efficiently saved in the file geodatabase.

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3D Zoning Regulations



Features

3D Visualization in the Browser

CityEngine scenes can be published directly on the web for sharing 3D models, analysis results, or design proposals with decision makers or the public. Since CityEngine output is based on WebGL technology, no plug-in is required for most browsers.

Custom Report Generation

To compare planning proposals and analyze designs, customized rule-based reports can be generated (e.g., automatically calculate quantities such as density or gross floor area). Reports are updated instantaneously.

Façade Wizard

Quickly create rules out of a photograph with this simple and easy-to-use visual façade authoring tool. The resultant façade rules are size independent and can be extended (e.g., with detailed window assets).

Python

Streamline repetitive or pipeline-specific tasks with the integrated Python® scripting interface.

Industry-Standard 3D Formats

CityEngine supports KML, COLLADA, Autodesk® FBX®, Wavefront OBJ, DXF, 3DS, or RenderMan® RIB for 3D data exchange. FBX and COLLADA support advanced material handling, asset instancing, and multiple UV sets.

Training Materials

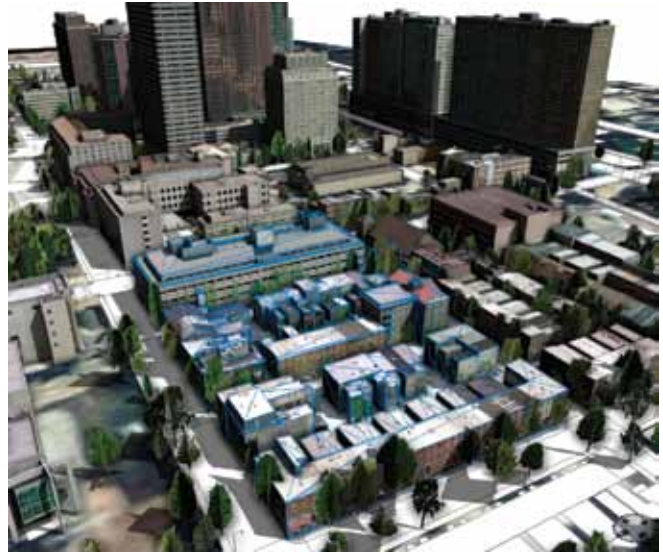
Architects, urban planners, GIS professionals, game developers, and computer graphic artists can avail themselves of several videos and tutorials that show the basics and key concepts of CityEngine. Sample projects of ancient, contemporary, and future cities at different levels of detail are also available.

Available for All Platforms

CityEngine is available for Windows® (32/64 bit), Mac® OSX (64 bit), and Linux® (64 bit).

Data Model Templates for Cities

Esri provides harmonized information models of 3D GIS datasets that bring local government operations to life for city staff and citizens. With CityEngine, these datasets—including uniquely customizable zoning regulations—can be visualized, edited, and shared in 3D.



Now: Density 2.6



Proposal 1: Density 3.1



Proposal 2: Density 6.8



Understanding our world.

Esri inspires and enables people to positively impact their future through a deeper, geographic understanding of the changing world around them.

Governments, industry leaders, academics, and nongovernmental organizations trust us to connect them with the analytic knowledge they need to make the critical decisions that shape the planet. For more than 40 years, Esri has cultivated collaborative relationships with partners who share our commitment to solving earth's most pressing challenges with geographic expertise and rational resolve. Today, we believe that geography is at the heart of a more resilient and sustainable future. Creating responsible products and solutions drives our passion for improving quality of life everywhere.



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