IMAGE
GENERATOR v4

Founded in 2006 and located in France, Imagine is a leading and innovative provider of 3D Image Generation software. The latest v4 release pushes our technology to the next level. It offers a single, global and extremely scalable visualization framework to satisfy varied requirements across multiple domains. Whether the observer's viewpoint is in space, or a few centimeters above ground, the Imagine IG will produce realistic and crisp images, taking into account all active atmospheric parameters such as sun position, visibility and weather effects.

Our technology is used all around the world; end-users of our software products are located in 29 separate countries.

Features

MULTI-CHANNEL

- No hard-coded channels count limit
- Flexible channel properties configuration
- High-performance synchronization

GLOBE (WHOLE EARTH)

- WGS84 reference ellipsoid model
- Global database with global base layers
- High-resolution insets/sub-scenes with millimeter-scale resolution
- Textured vector data
- Global streaming system for 3D models, lights, etc.
- No terrain popping

ATMOSPHERE RENDERING

- Light scattering simulation with configurable visibility
- Dynamic time-of-day with correct sun positioning
- Weather effects such as snow, rain, lightning, etc.
- Multiple layers of volumetric clouds

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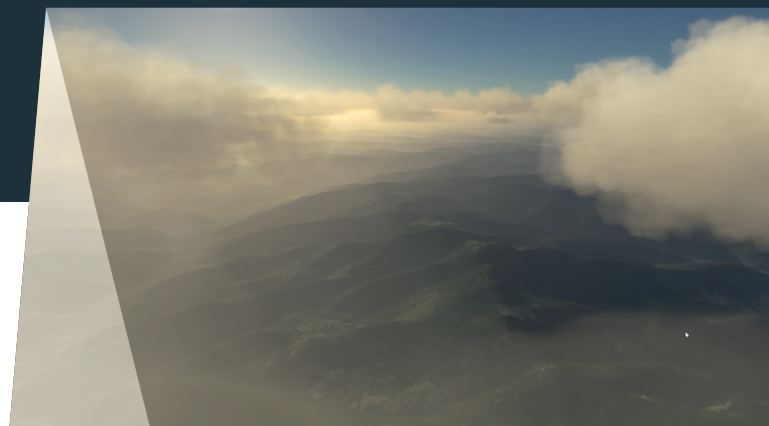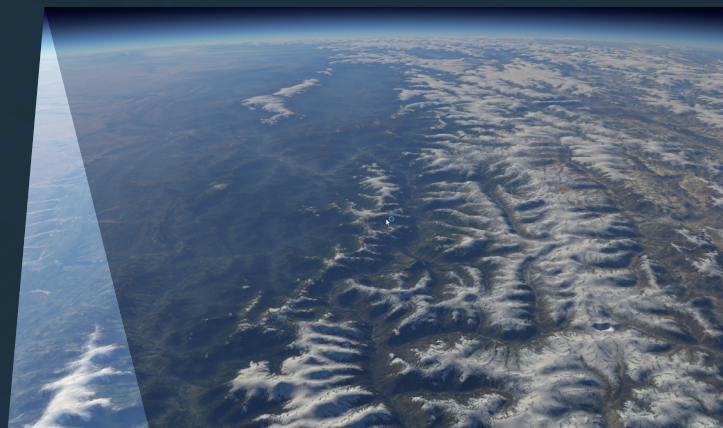
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HIGH-PERFORMANCE RENDERER

- Physically based lighting (PBR)
- Water simulation configurable via Beaufort scale
- Thousands of real lights
- In-house 3D engine, no dependencies on external engine, full control over development and source code

C++ SDK

- Easy-to-use C++ programming interface
- Fast elevation requests

SCENE EDITOR TOOL

- Immediate 3D feedback (WYSIWYG)
- Wide range of raster and elevation data formats
- Wide range of 3D model formats
- Flexible and easy 3D models positioning options
- Terrain painting and sculpting tools
- Background scenario creation tools
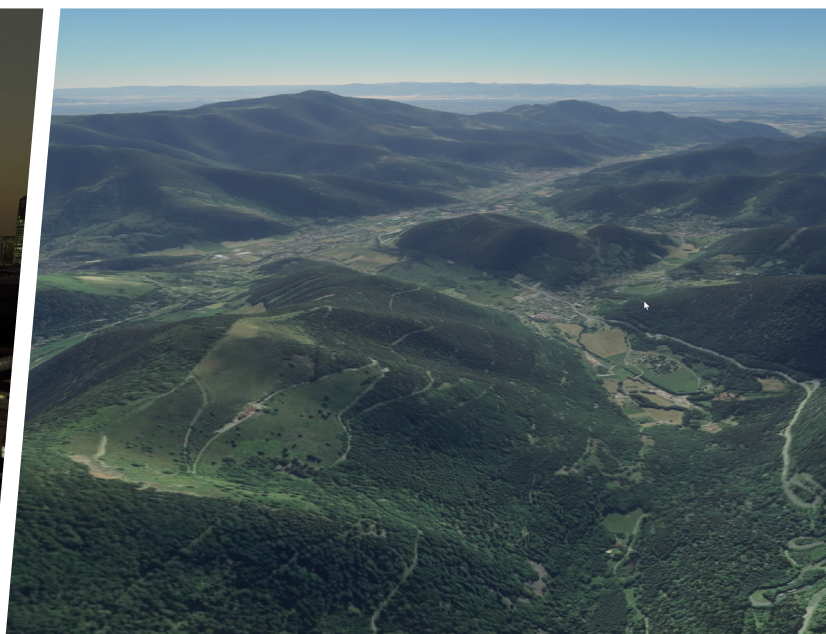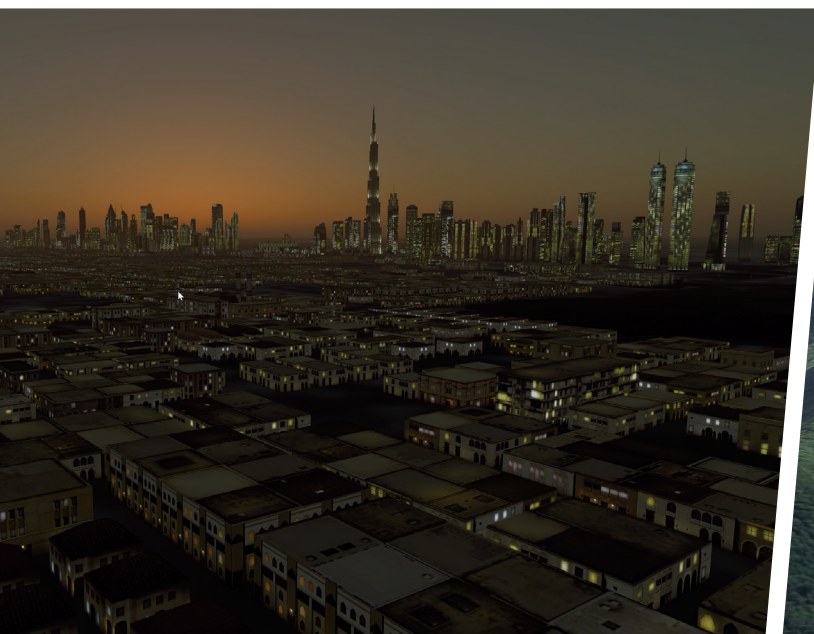
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