

1 Introduction

CityEngine is a software product for urban 3D modeling that uses procedural rules and feature geometry and attributes. It allows the user to create 3D models based on existing 2D data, like the openstreetmap (.osm) format, on which we based the street network in this project.

OpenDS is an open source driving simulator written in Java and based on a scene graph game engine. In the context of our project, it's three main components - the driving task editor, the simulator and the analyzer, are working with XML-based driving tasks in order to render the advanced city scenario exported from CityEngine.

The link between the two main components of this project is represented by an additional software product which is meant to connect the data formats of CityEngine and OpenDS. **Blender** is an open source 3D animation suite that offers modeling and simulation options as well as Python-based scripts for several import/export options. With these features in mind, we have used Blender for processing the .obj (Wavefront) data from CityEngine into OgreXML formats accepted by OpenDS.

To this end, here are the steps necessary for setting up the required version of Blender, which is compatible with OpenDS:

- 1 We recommend Blender 2.49b with the following exporters:
 - meshes exporter: <http://www.xullum.net/lefthand/downloads/temp/BlenderExport.zip>
 - scene exporter: <http://sourceforge.net/p/ogreaddons/code/HEAD/tree/trunk/blendersceneexporter/ogredotscene.py>
- 2 Install Blender. Make sure to install version 2.49b as there are known problems with newer versions <http://download.blender.org/release/>
- 3 Install Python. This is not needed for Blender itself, but for the exporter script. Choose the same Python version that is used as base for your Blender version (you'll see it when you start Blender). For this project we needed Python 2.6.2 (<https://www.python.org/download/releases/2.6.2/>).



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