CMP405 Documentation

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Summary

Here is a comprehensive list of features that have been added to the tool:

* Improved camera and navigation system with a dedicated camera class
* Object selection via mouse picking
* Object highlighting when selected
* Object dragging along three axes (X/Y/Z) using gizmos
* New object creation
* Object deletion
* Object copying, cutting and pasting
* Different modes for object selection and object creation

Controls

Here is a list of controls for each feature in the tool:

* Camera & general controls:
  + W/A/S/D – move forward, left, right or backward
  + Q/E – move up or down
  + Right click and drag – rotate
  + Mouse wheel – change modes
* Selection mode controls:
  + Left click on object – select
  + Left click on gizmo and drag – object moving on certain axis
  + Left ctrl + C – copy selected object
  + Left ctrl + X – cut selected object
  + Left ctrl + V – paste copied / cut object
  + Z – delete selected object
* Spawning mode controls:
  + Left click – spawn new object

Features

This section will explain each feature’s design philosophy, and how the feature was implemented in the tool

Camera system

A camera system was already implemented