

VR Group Presentation Final Project

Topic: Interactive Soccer penalty Shot

Group Members

Jeffrey Averett, Abu Kamara, Ronald Sumner

Why is virtual reality the appropriate technology? Why is this a useful application?

- Virtual reality is the appropriate technology because of the tools it possesses which allows users to simulate the objective and goals without actually being on the soccer field. 3Ds Max and VRML were useful because of their user friendly environment and GUI.

Presentation Goal and Objectives

- GOAL AND OBJECTIVES:

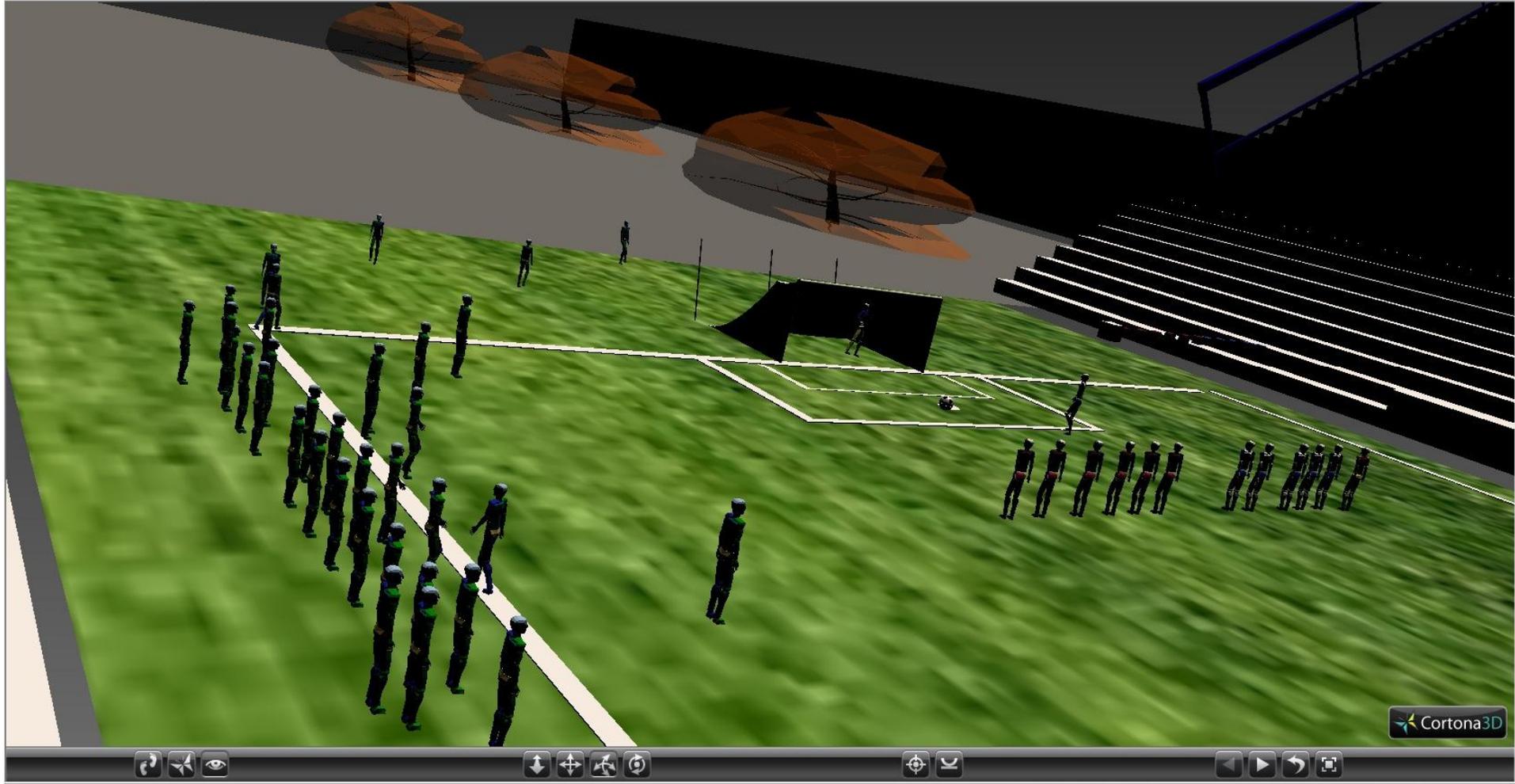
A simulation of soccer penalty kick.

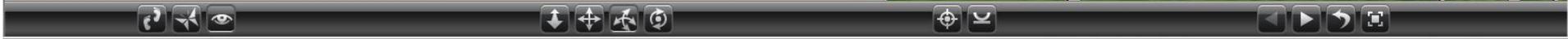
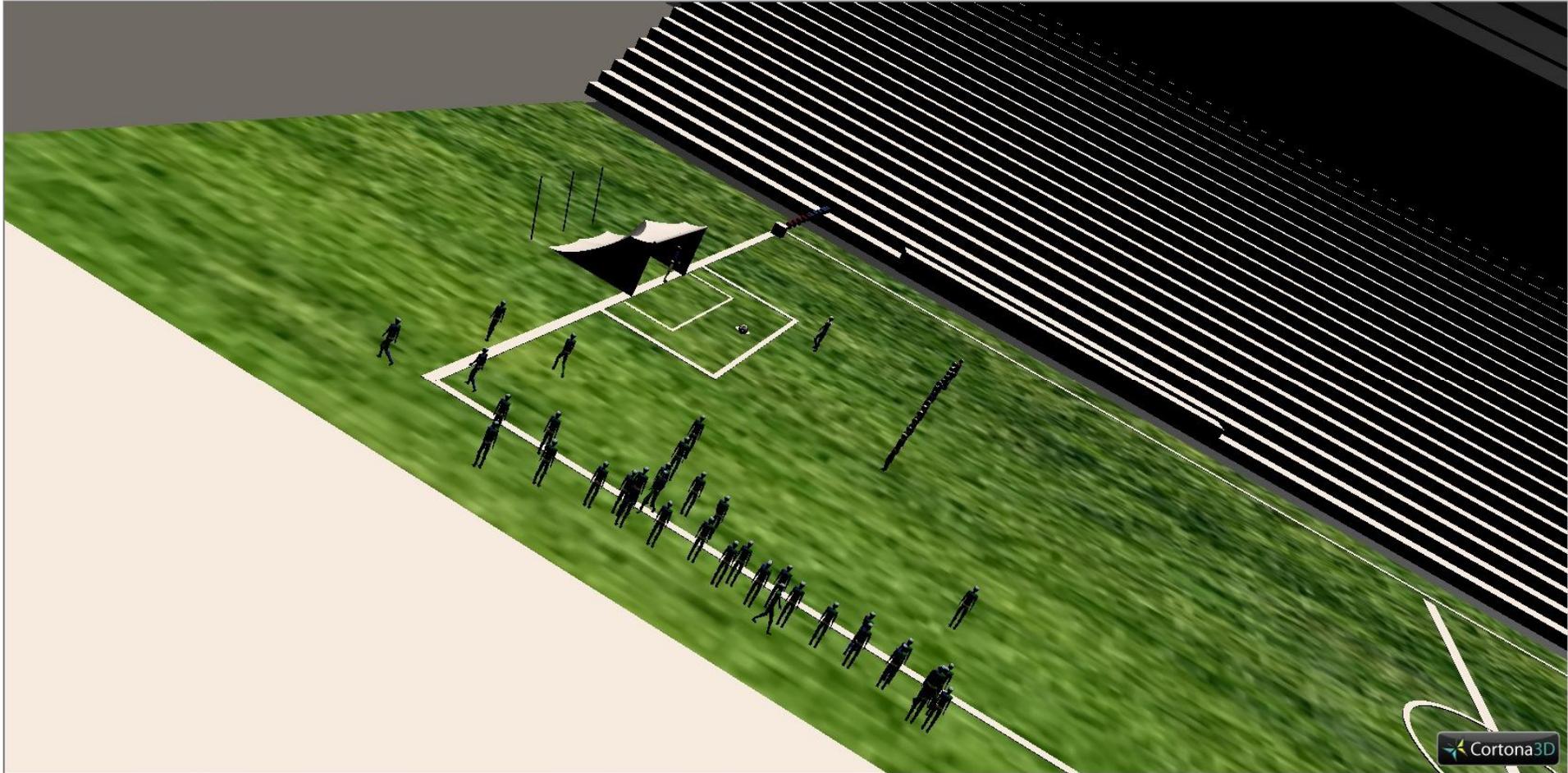
When you click on a player, he will walk towards the soccer ball and stand in a position of kicking the ball towards the goal. At the same time, the goal keeper of the other team walk towards the goal post and stand in position of catching the ball or preventing it from entering the goal. When you click a button, the ball will shoot towards the goal while the goal keeper attempt to block the shot from entering the goal. After the shot is taken user will also click a button to reset the field.

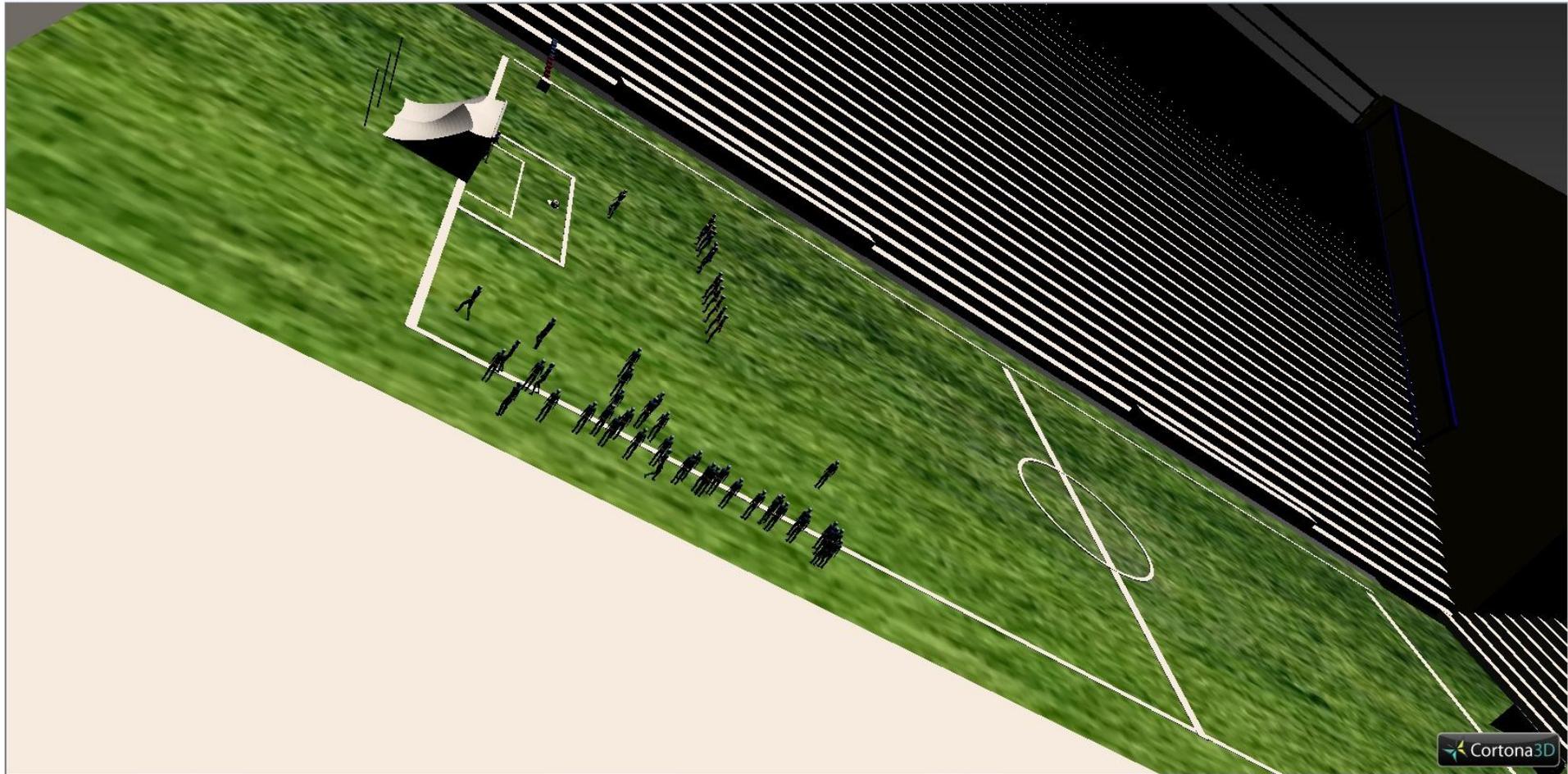
Modeling and Animation Tools



- 3Ds Max-Geometry(Planes & Boxes), Stairs, Railing, walls, foliage, Soccer-goal, Lights(Daylight System) and Textures(Field, pillars, walls, and planes)

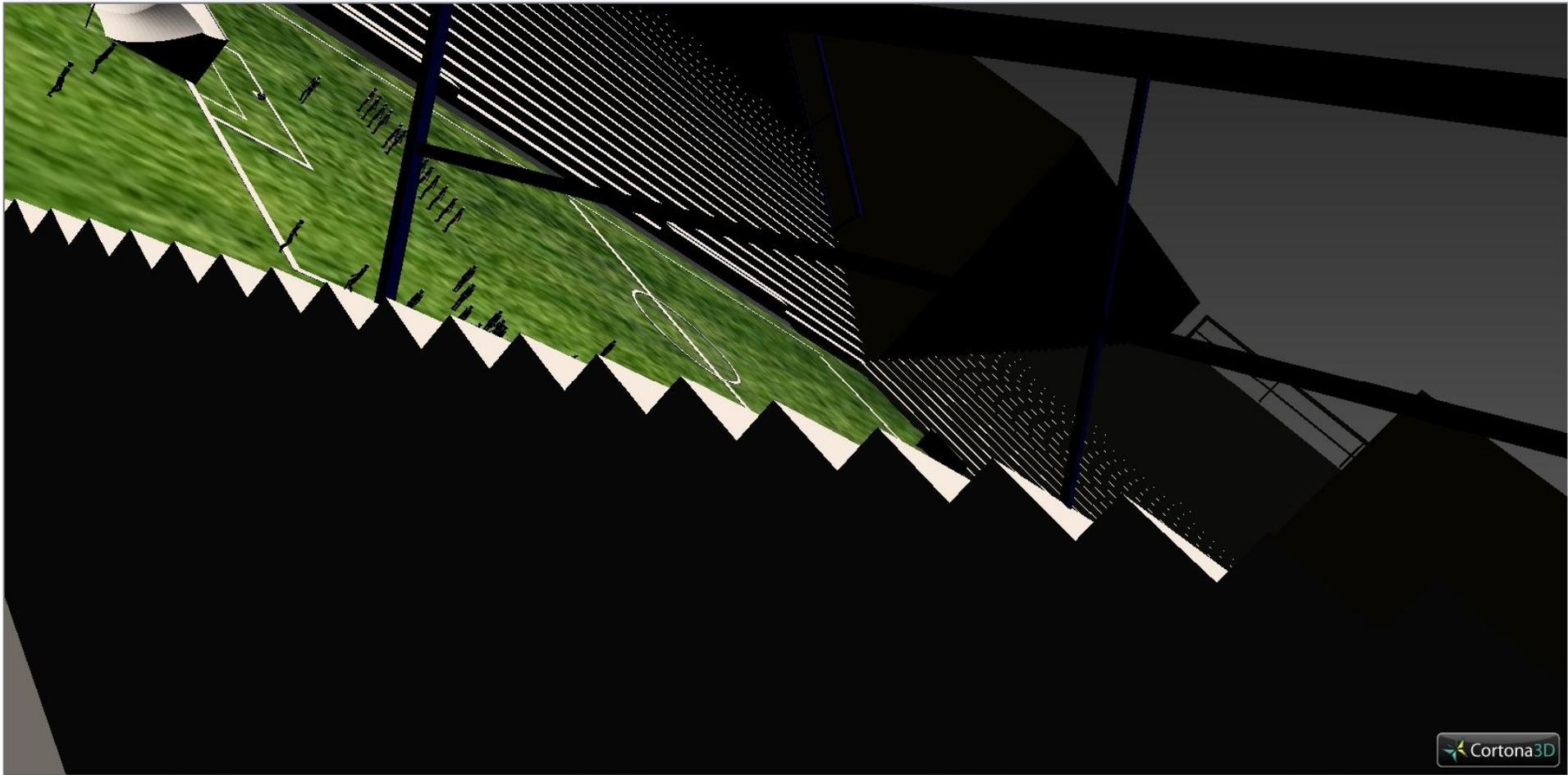






Cortona3D





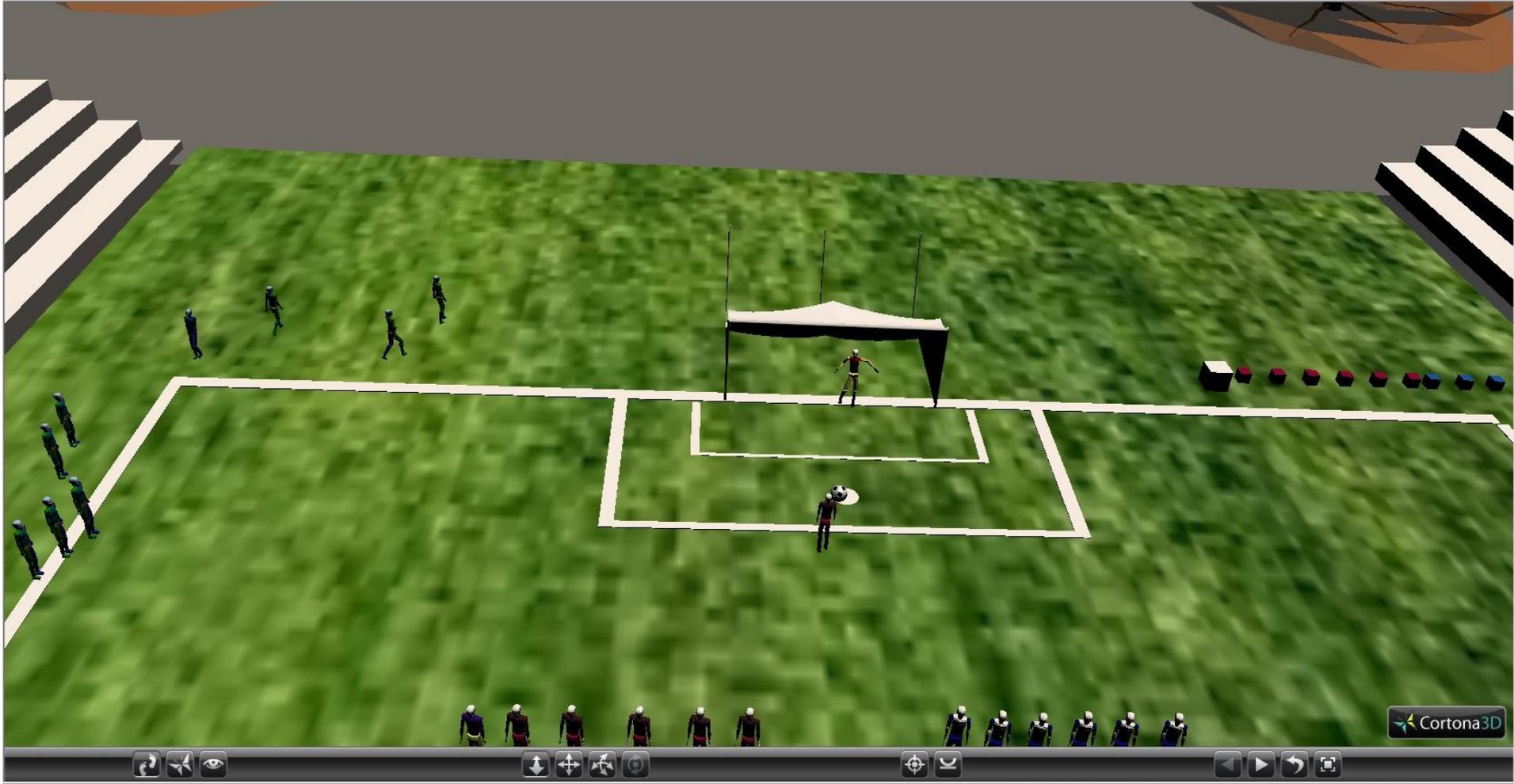
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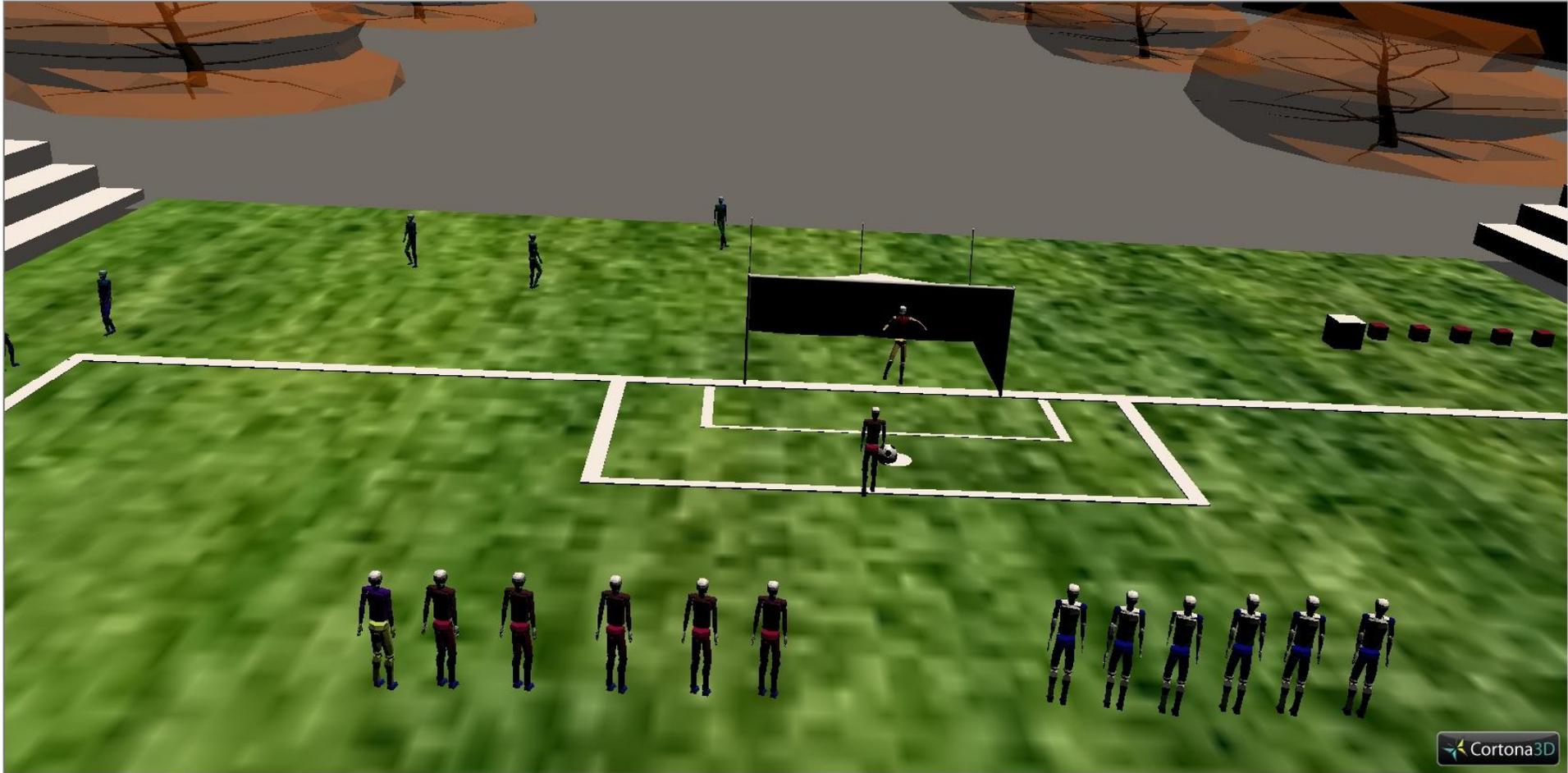
Modeling and Animation Tools

- VRML-Major animation: Sensors(touch & anchor)



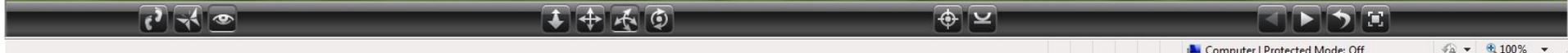
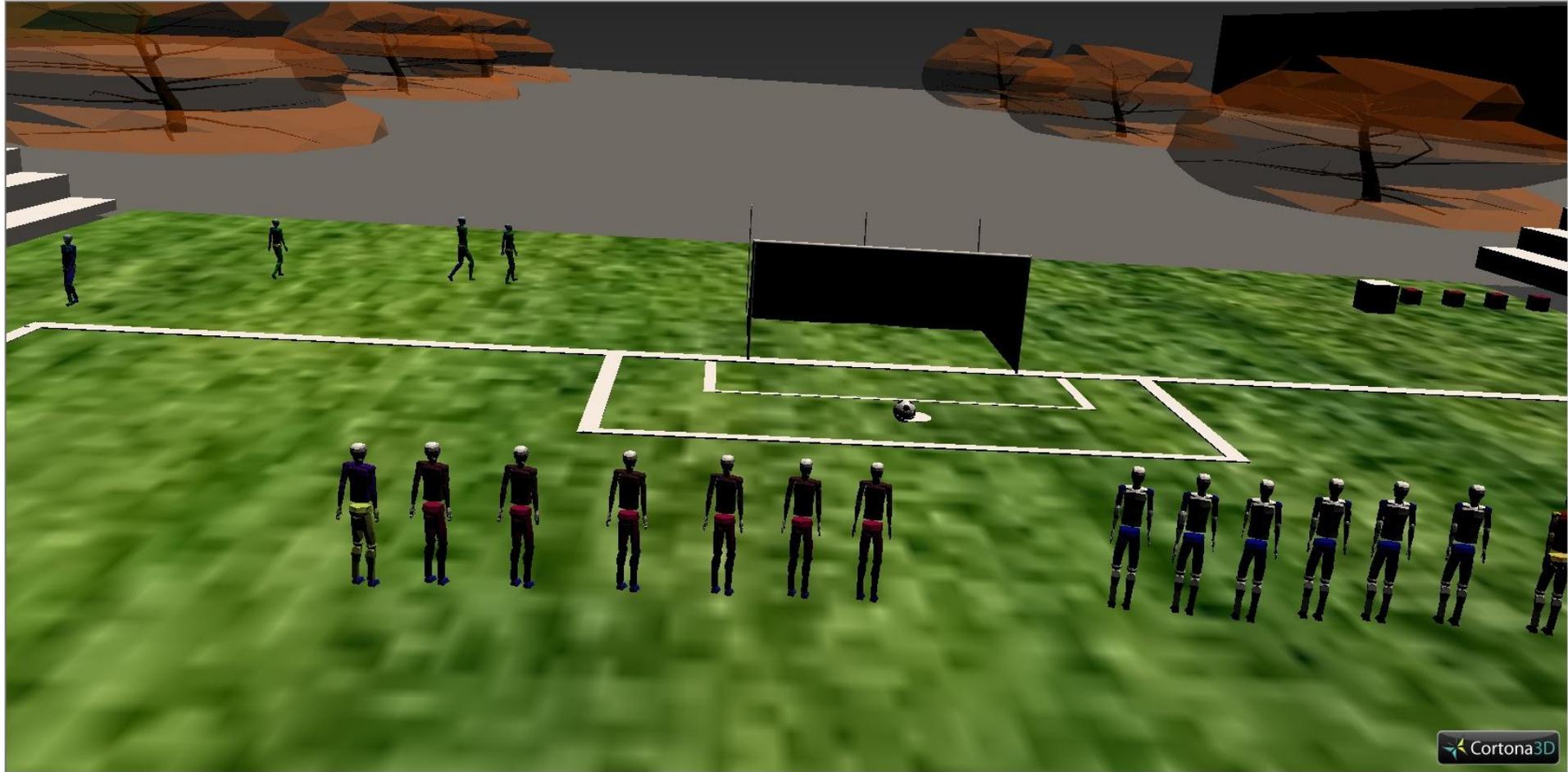


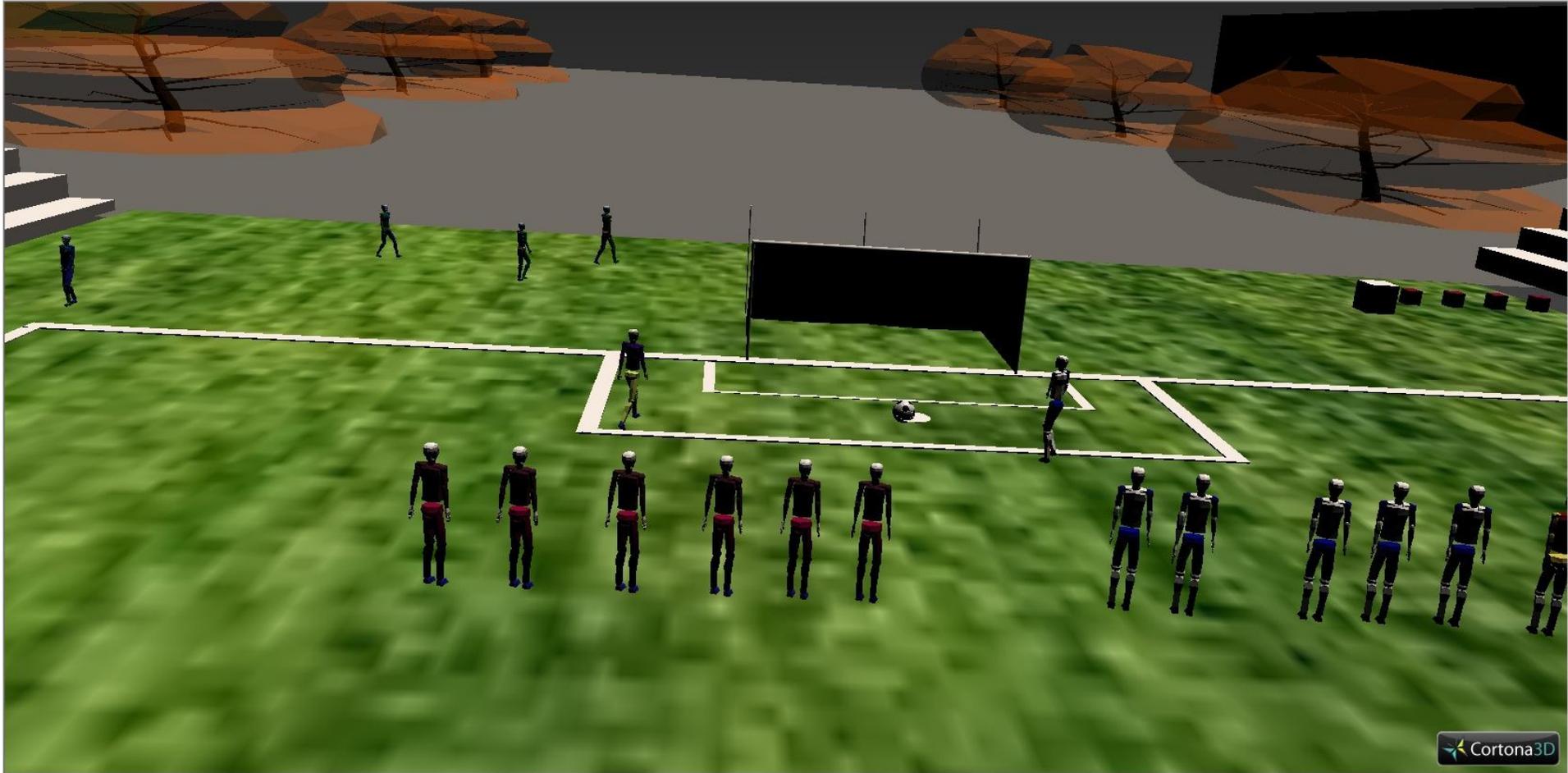
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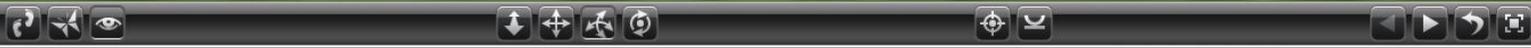
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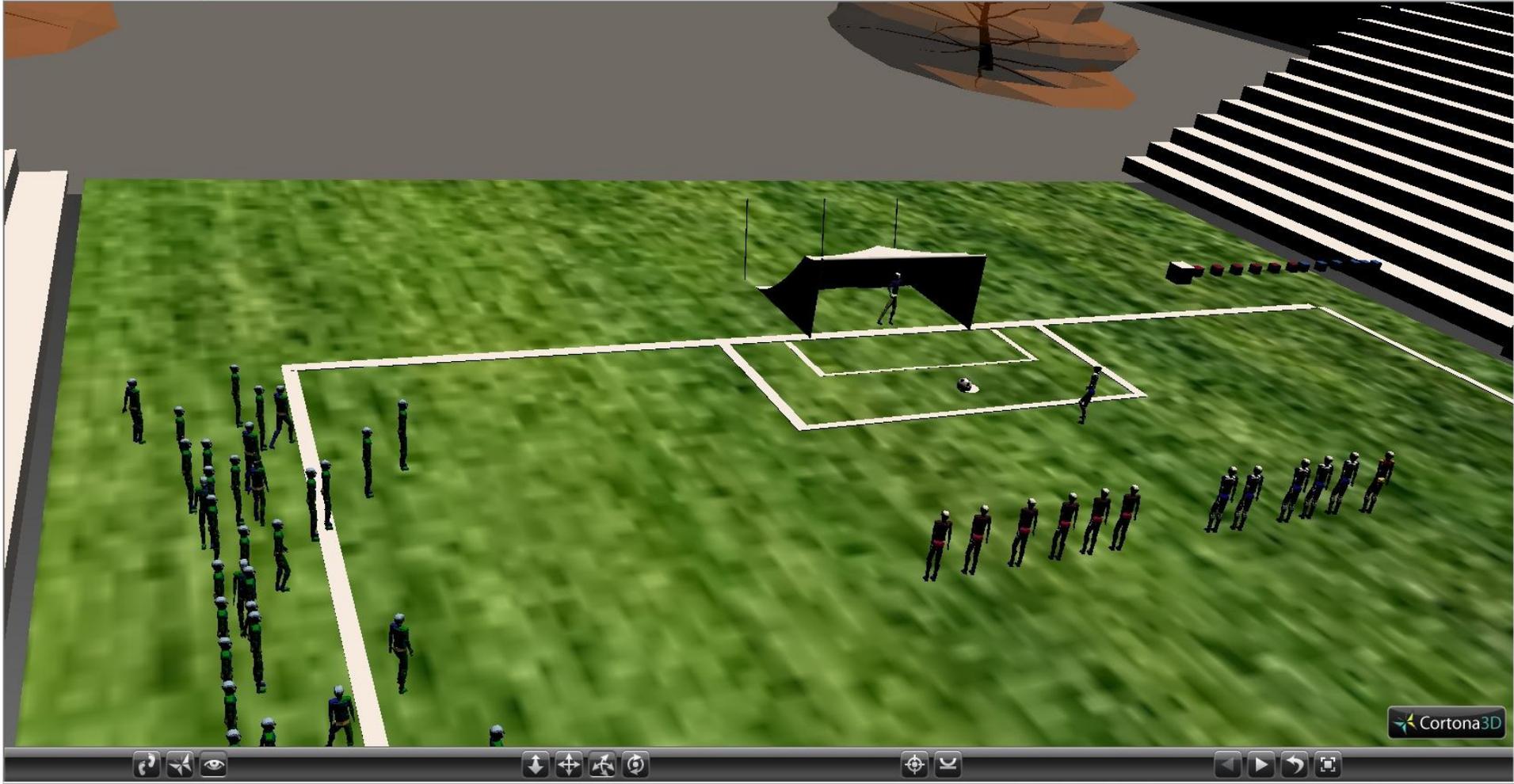




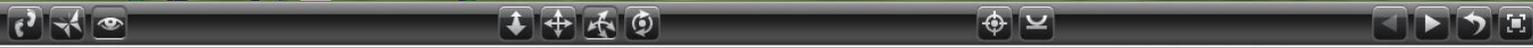


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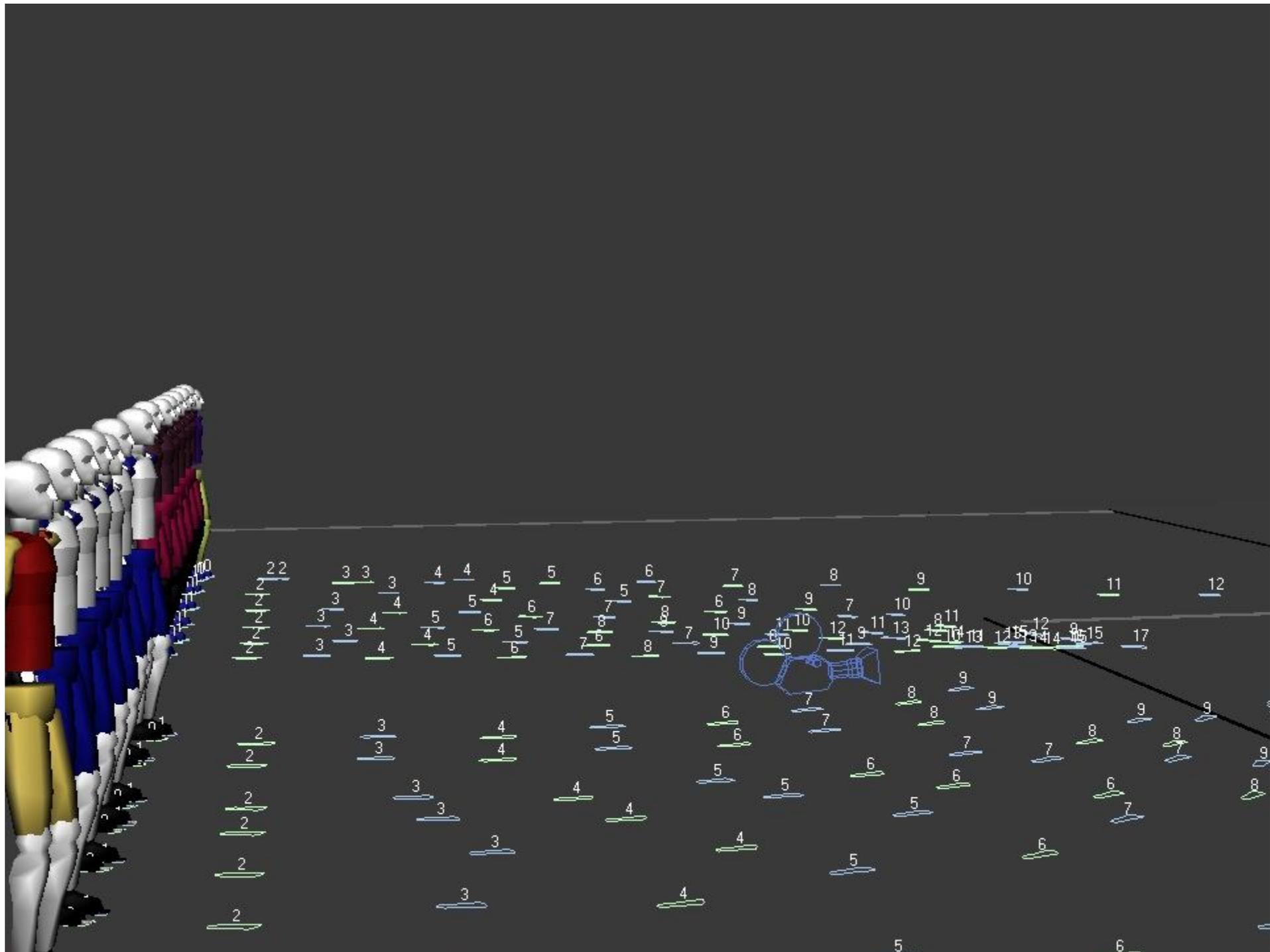


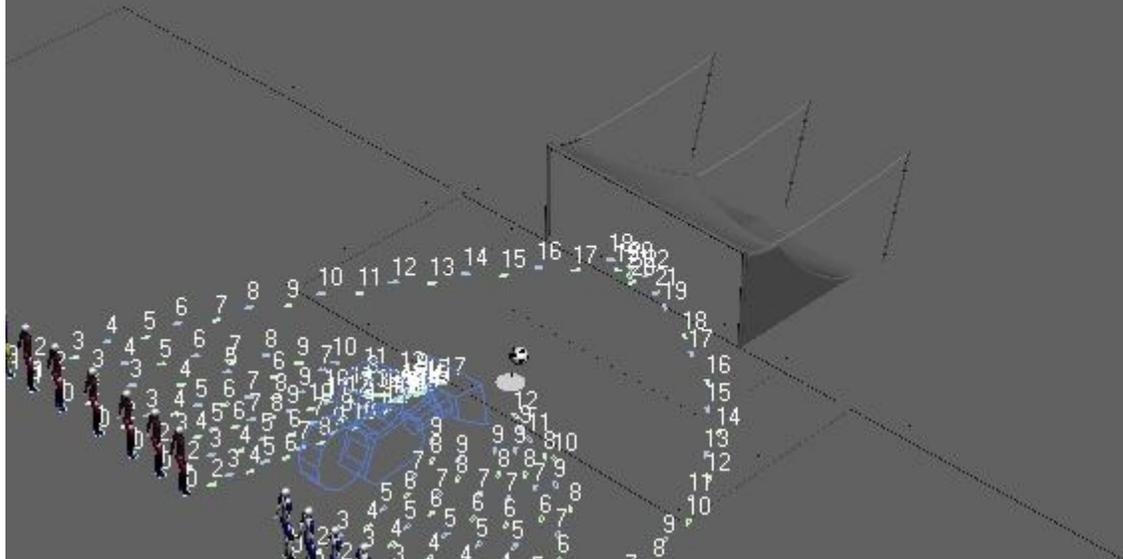


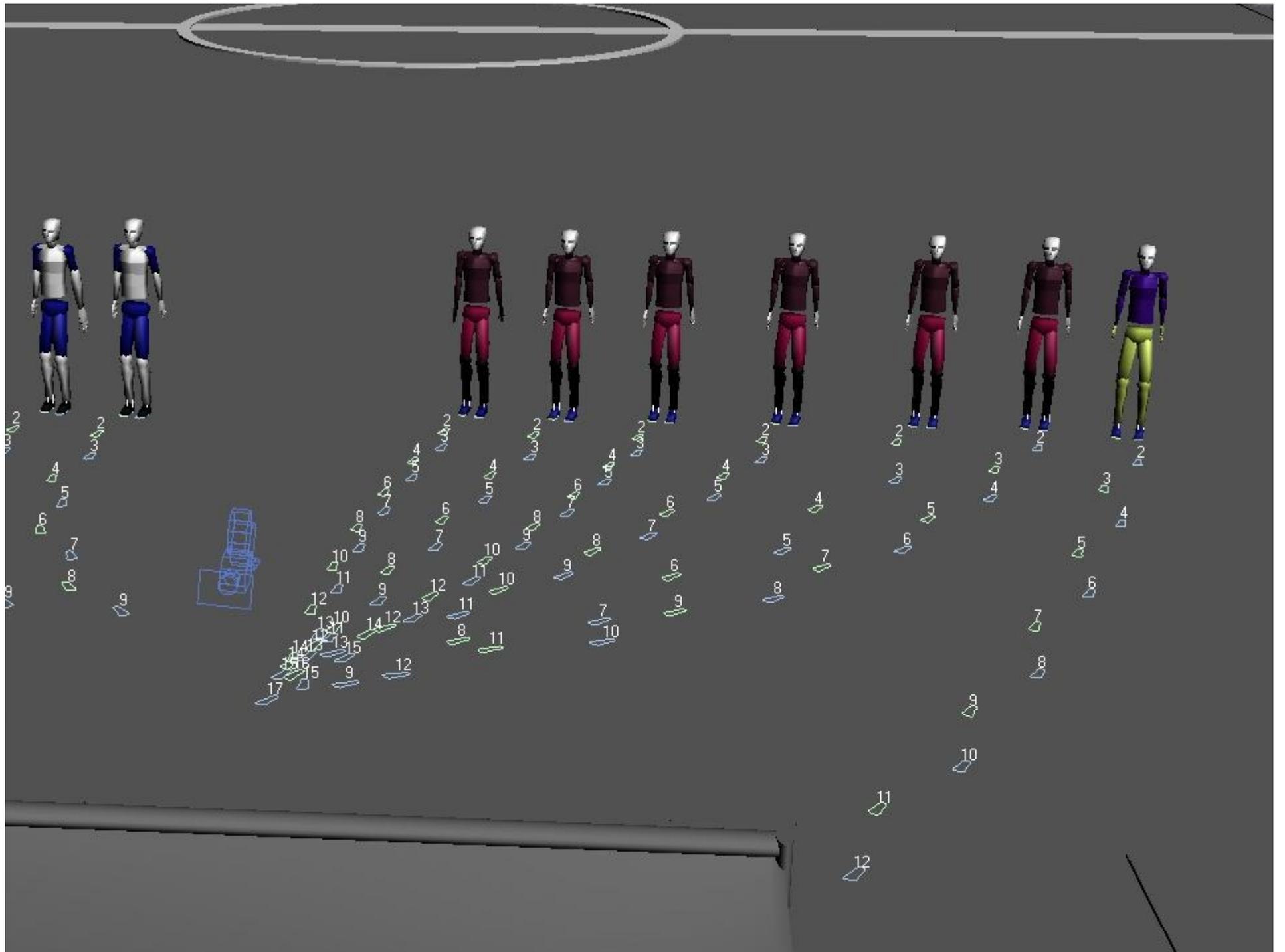
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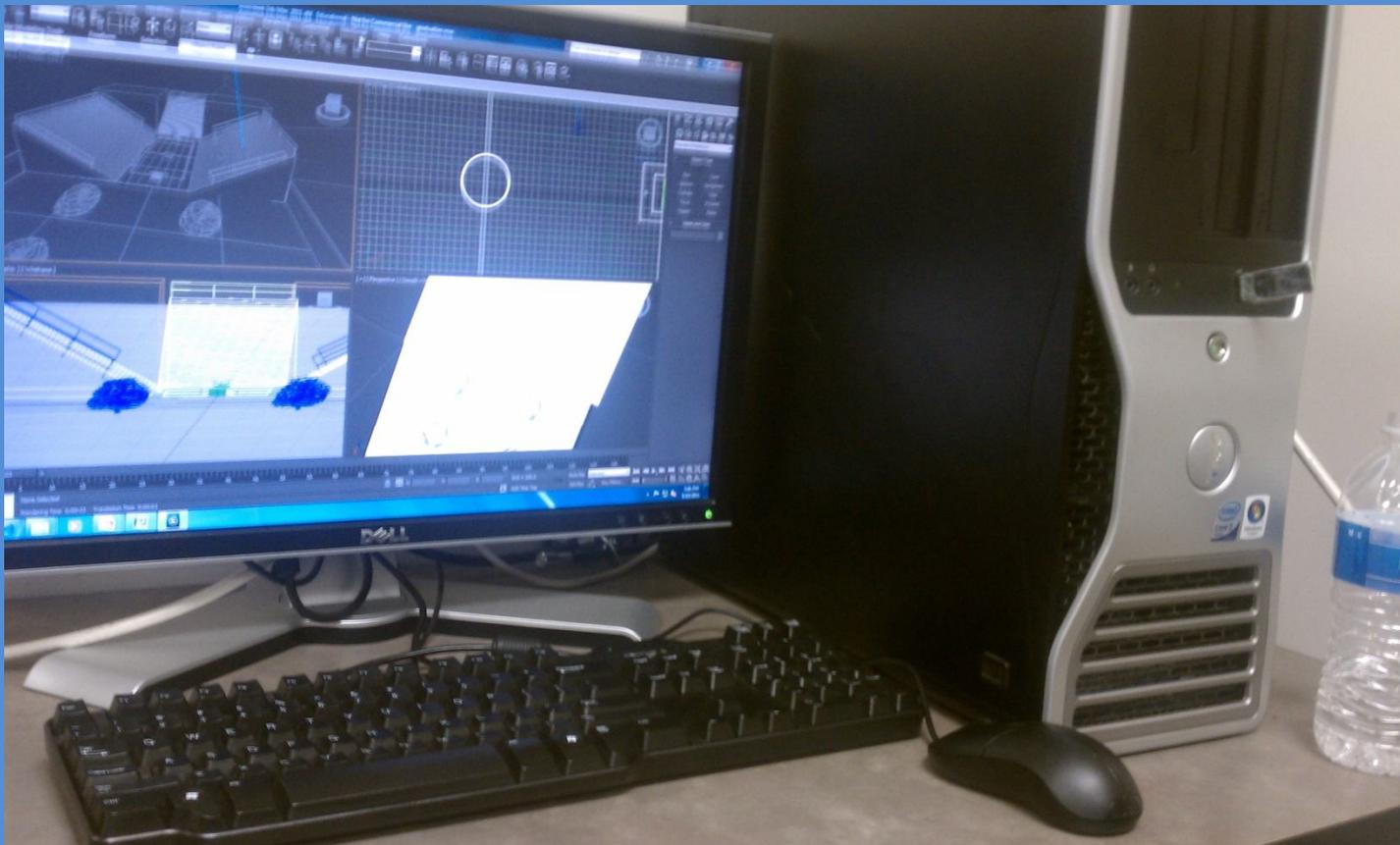






Software & Hardware Used

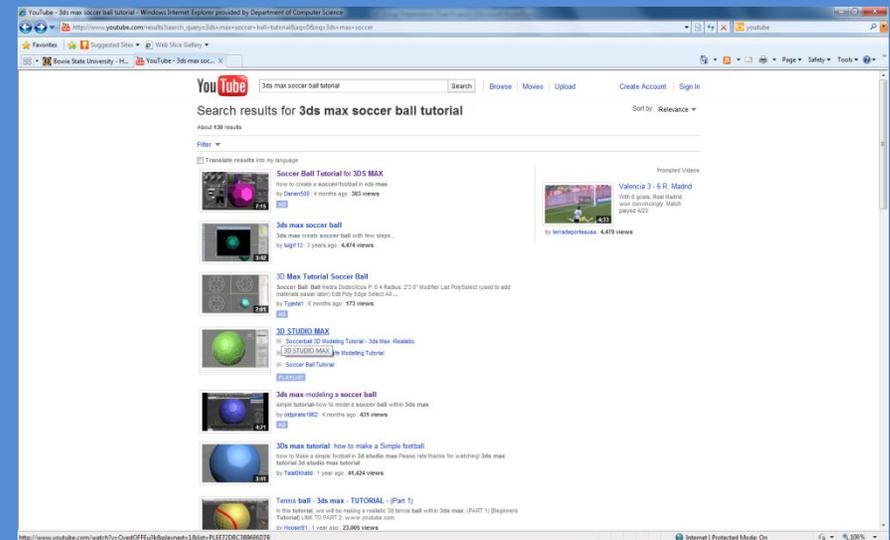
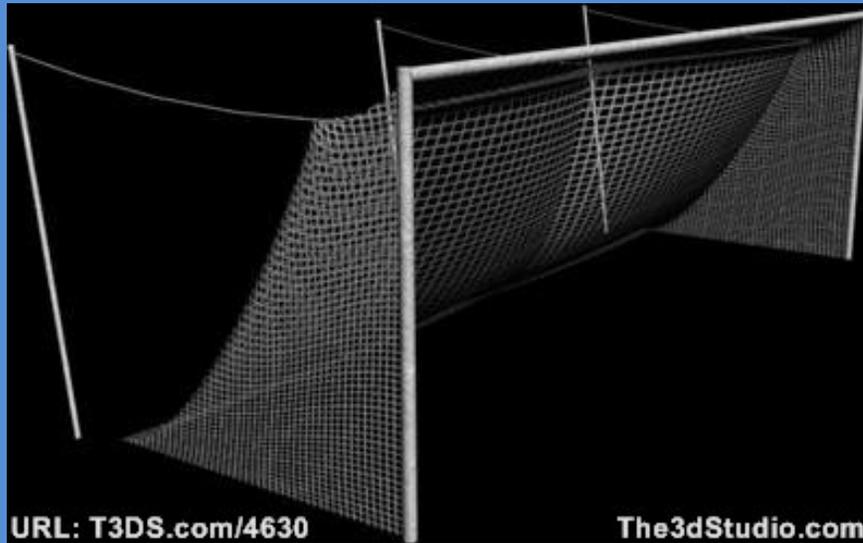
- Desktop Dell Precision T3400 Intel Core 2 Quad, 8GB RAM



Problems encountered? remaining shortcomings?

- Adding lines to field
- Adding skin to model
- Animating players
- Modeling field
- Adding textures
- Adding amenities
- Crowd simulation

References



- Soccer goal obtained from the 3D Studio (www.3dstudio.com)
- Soccer ball tutorial from youtube.com