

Simulated Virtual Restaurant

Café de Silva



A black and white photograph showing the silhouettes of several mannequins standing in a window display. The mannequins are dressed in various outfits, including dresses, skirts, and trousers. They are positioned behind a glass pane, and their reflections are visible on the surface. The background is a bright, overexposed area, possibly a window looking out onto a bright day.

Goals and Objectives

- Explore how three-dimensional computer modeling is being utilized to aid restaurant creation and development.
- Identify the advantages and barriers associated with virtual restaurant modeling and simulation
- Develop a pilot project to examine modeling and simulation through a VRE (Virtual Restaurant Environment)

A black and white photograph showing the silhouettes of several mannequins standing in a window display. The mannequins are arranged in a line, facing different directions, and are wearing various outfits. The background is a bright, overexposed window, and the foreground is dark, creating a high-contrast silhouette effect.

VRML and Modeling

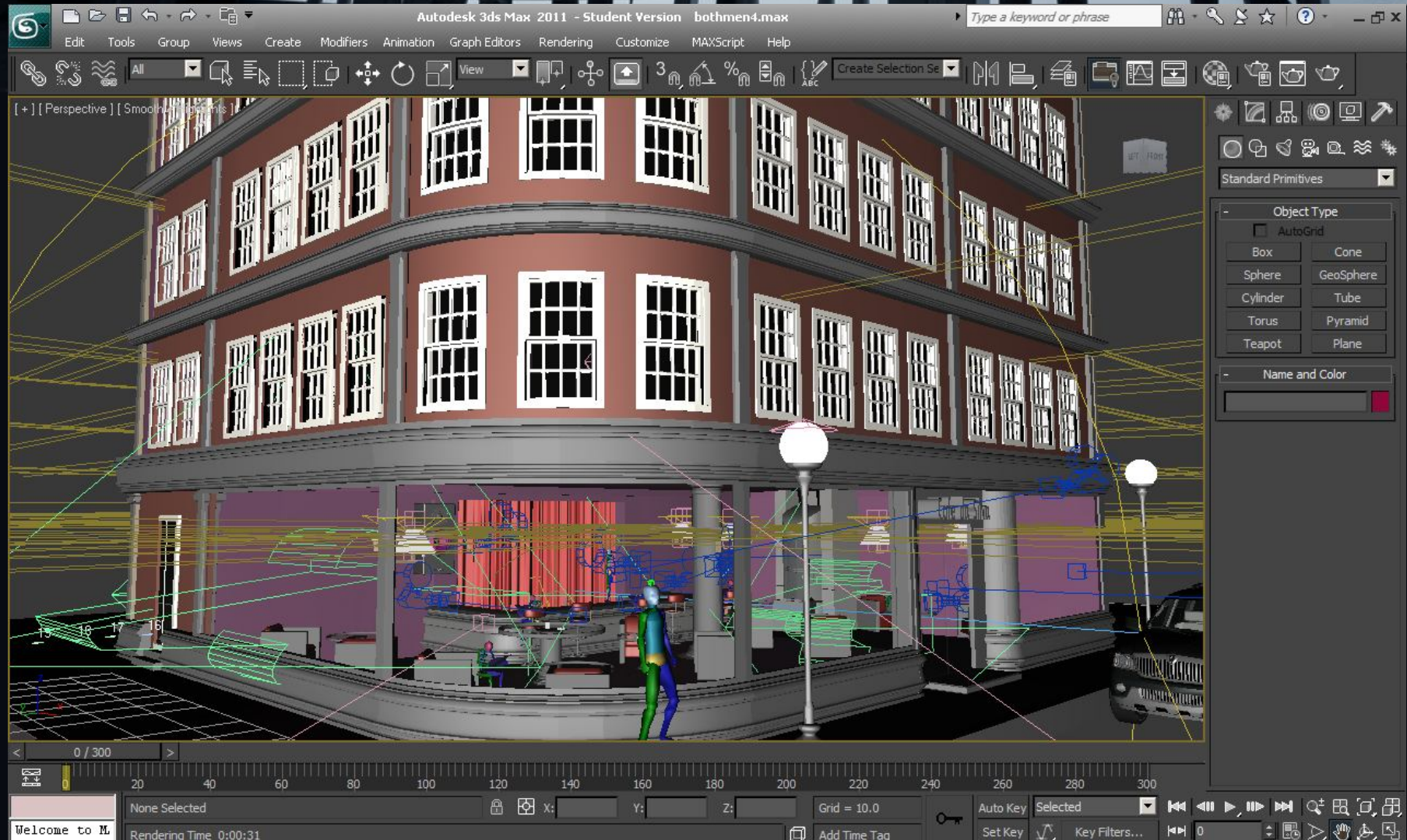
- Planned Development
- Animations
- Behaviors and Functionality
- Sensors

A black and white photograph showing the silhouettes of several mannequins standing in a modern interior space. The mannequins are positioned in front of a large window or glass wall, which reflects the interior. The lighting is dramatic, with the mannequins appearing as dark shapes against a lighter background. The overall mood is sophisticated and contemporary.

Planned Development

- A restaurant displayed within a night setting modeled to encompass a complete interior and exterior scene with four floors.
- A detailed building (textures, lighting, etc.) with a café lounge at the entrance floor.
- Incorporate VRML behaviors and functionalities through 3Ds Max.

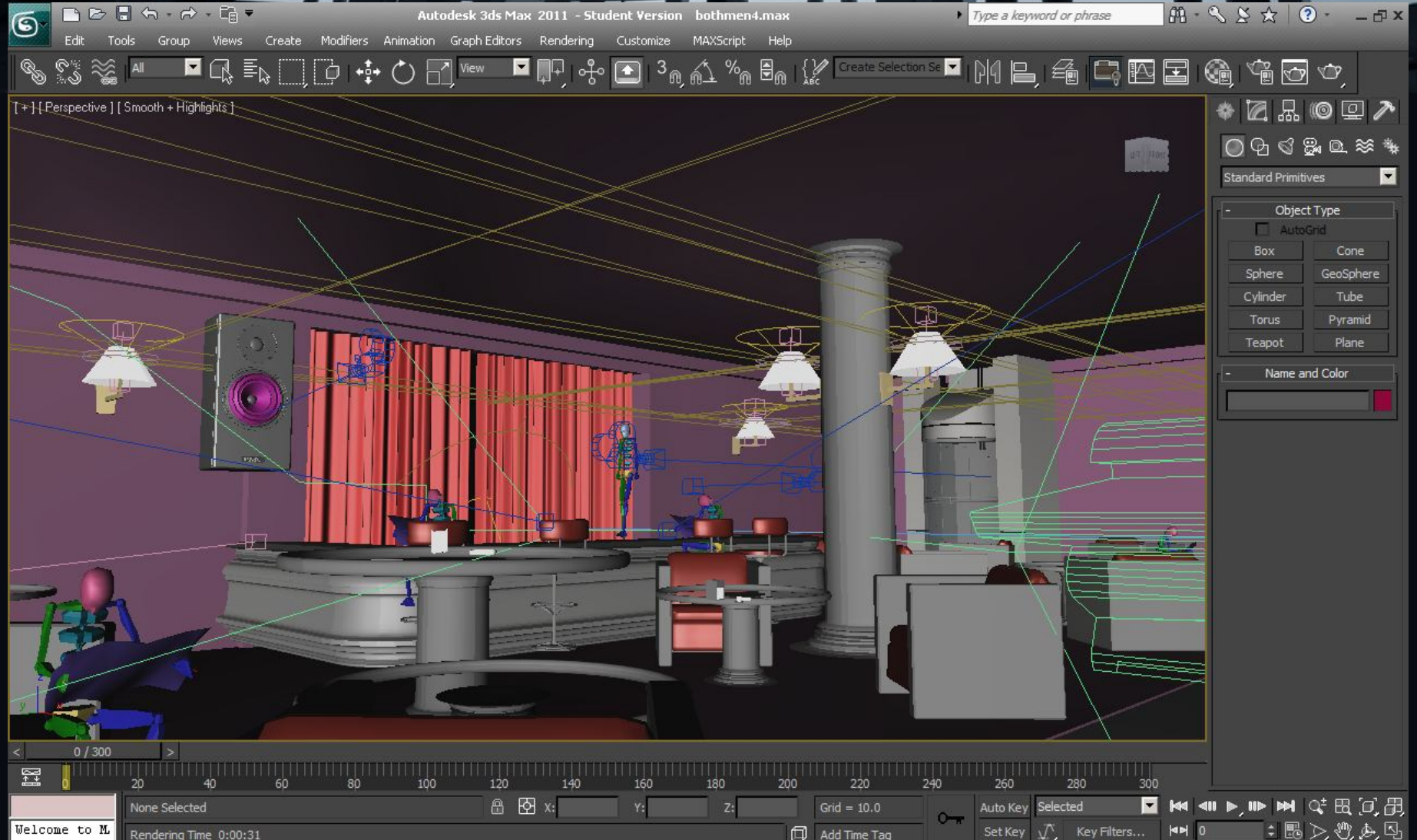
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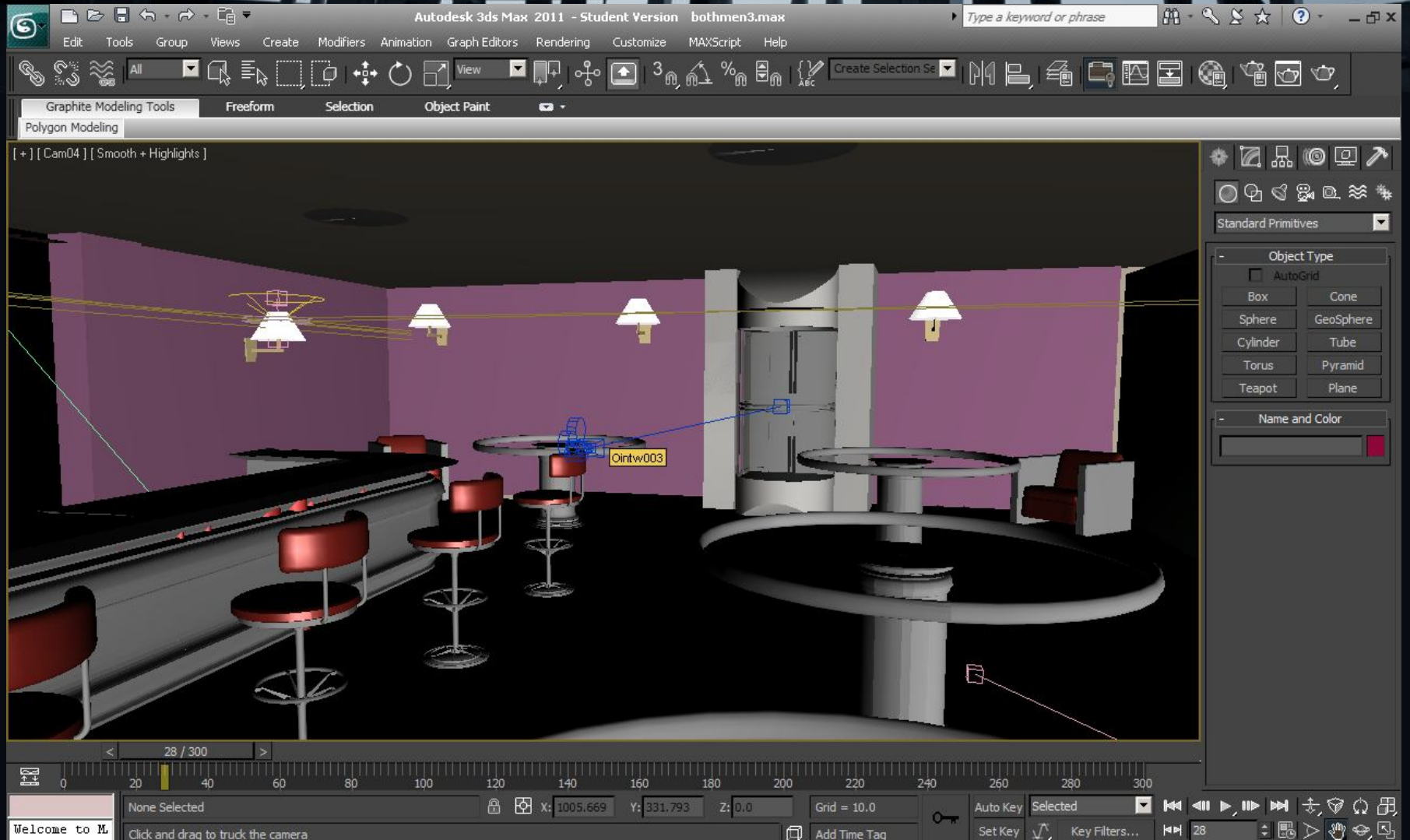
First Floor



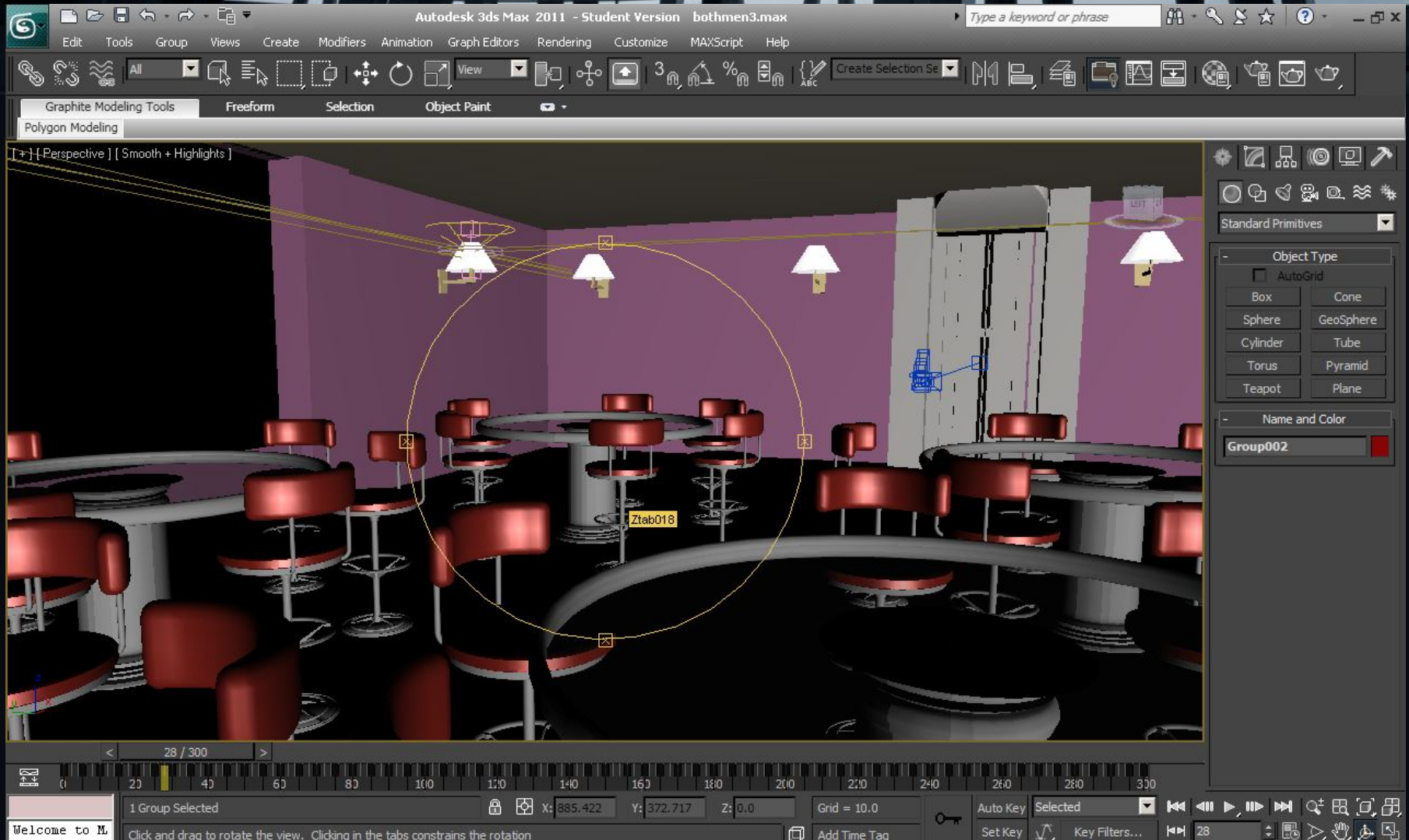
First Floor



Second Floor



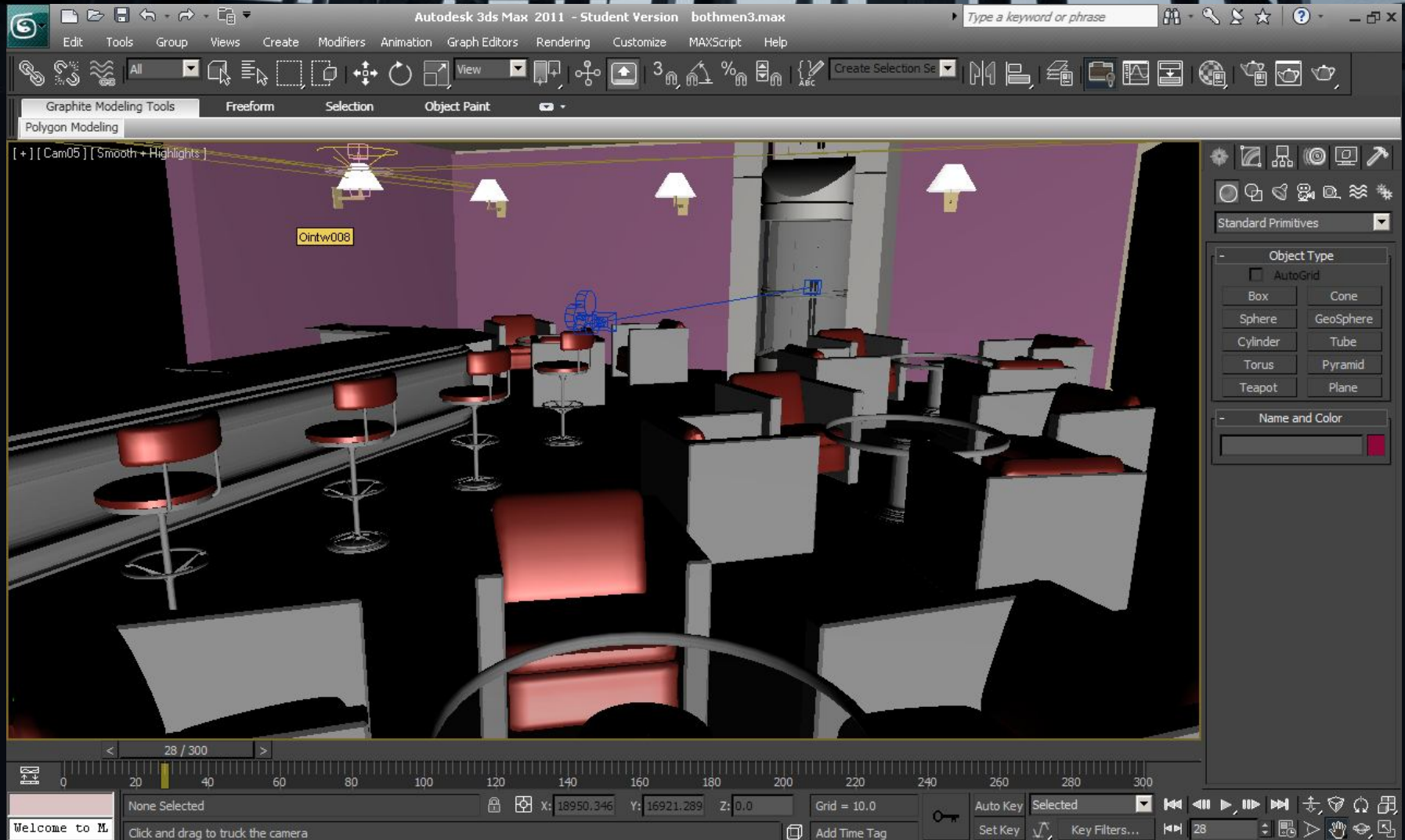
Third Floor



Third Floor



Fourth Floor



Fourth Floor

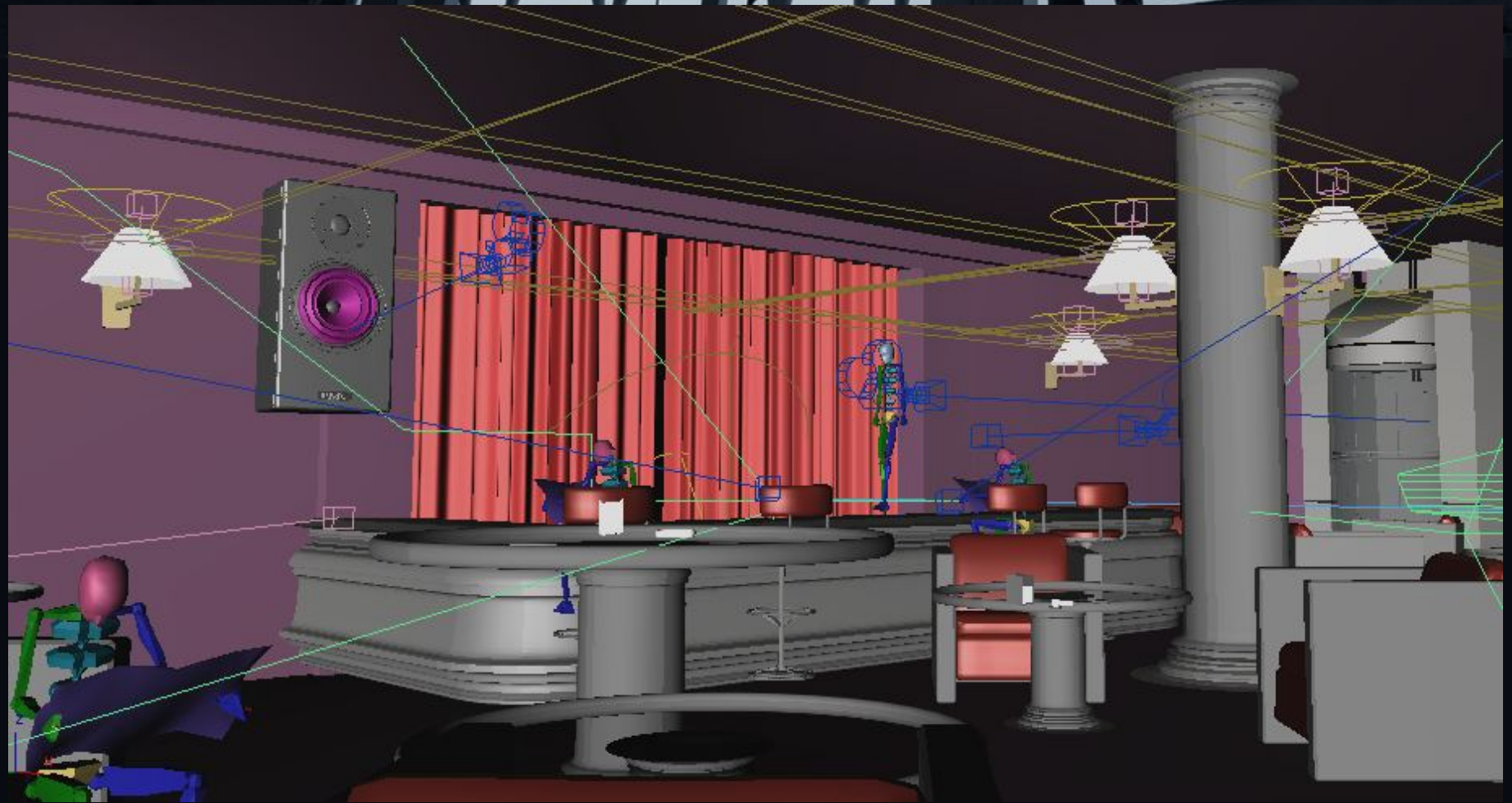


A black and white photograph of a row of mannequins in a store window. The mannequins are dressed in various outfits, including shirts, shorts, and pants. They are positioned behind a glass pane with horizontal lines. The background is a bright, overexposed sky.

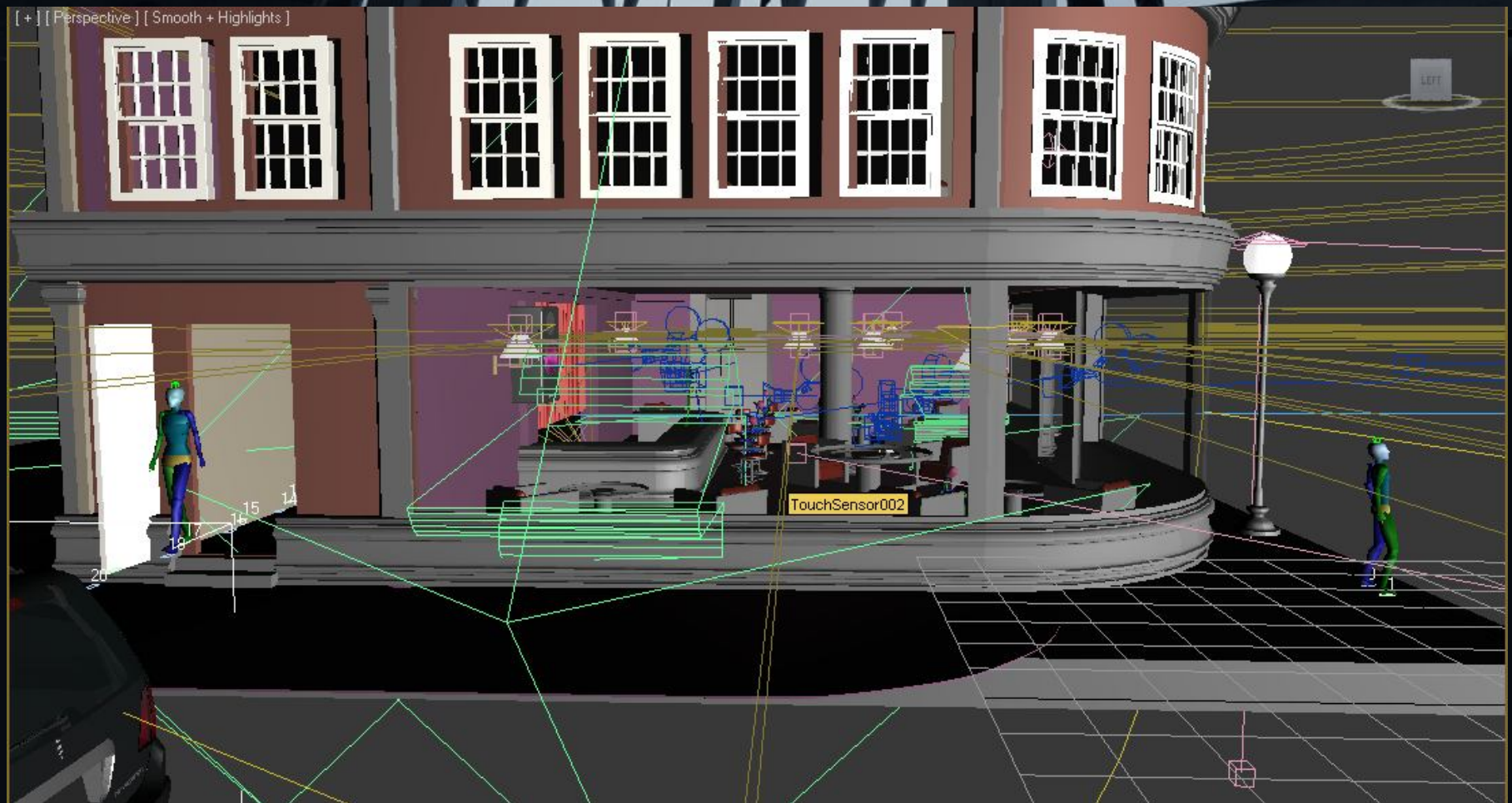
Animation

- Biped
- Speaker
- Vehicle
- Elevator
- Furniture

Biped



Biped



Biped



Vehicle



Speaker



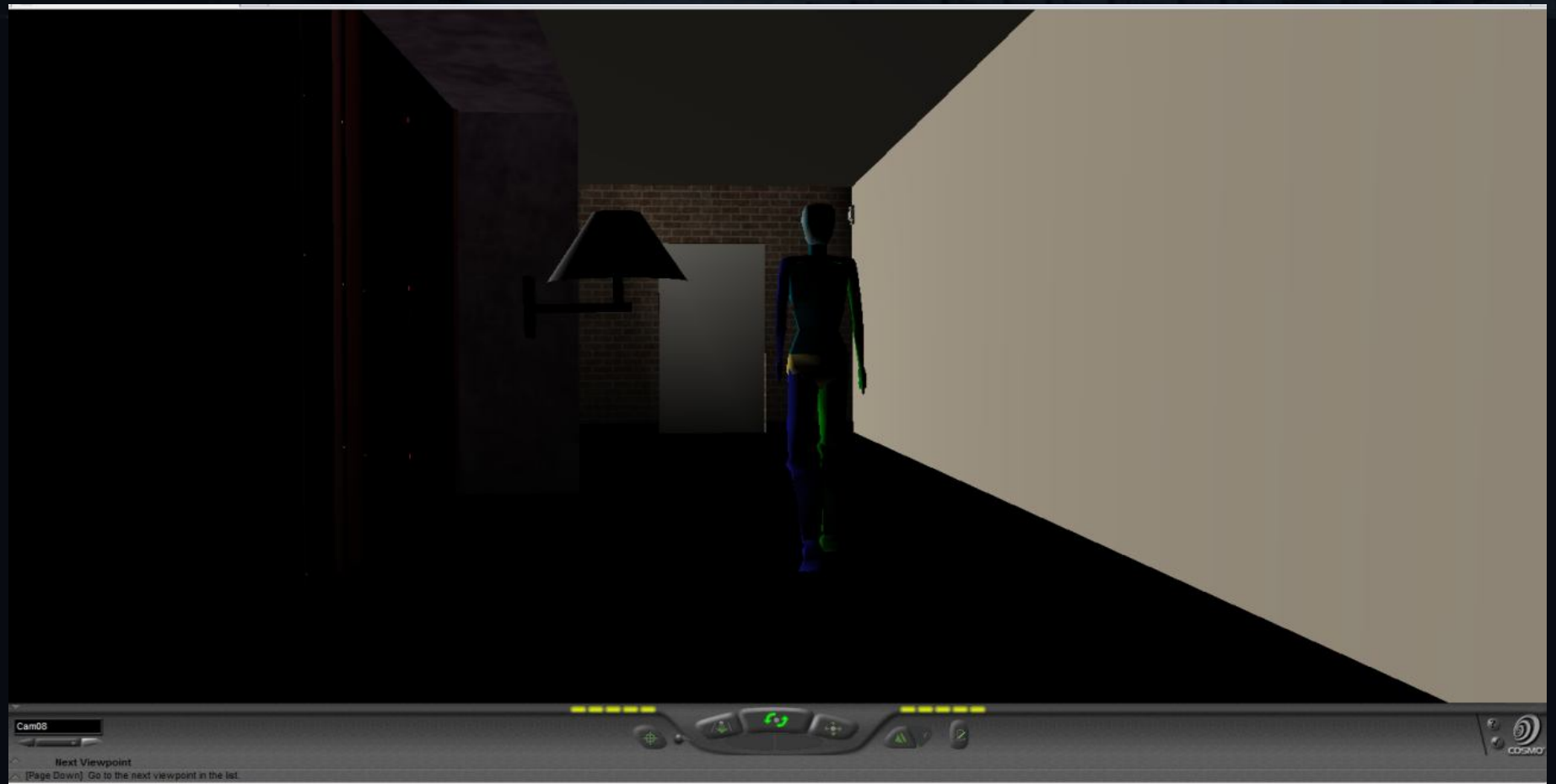
Elevator with VRML Touch Sensor



Curtain with VRML Touch Sensor



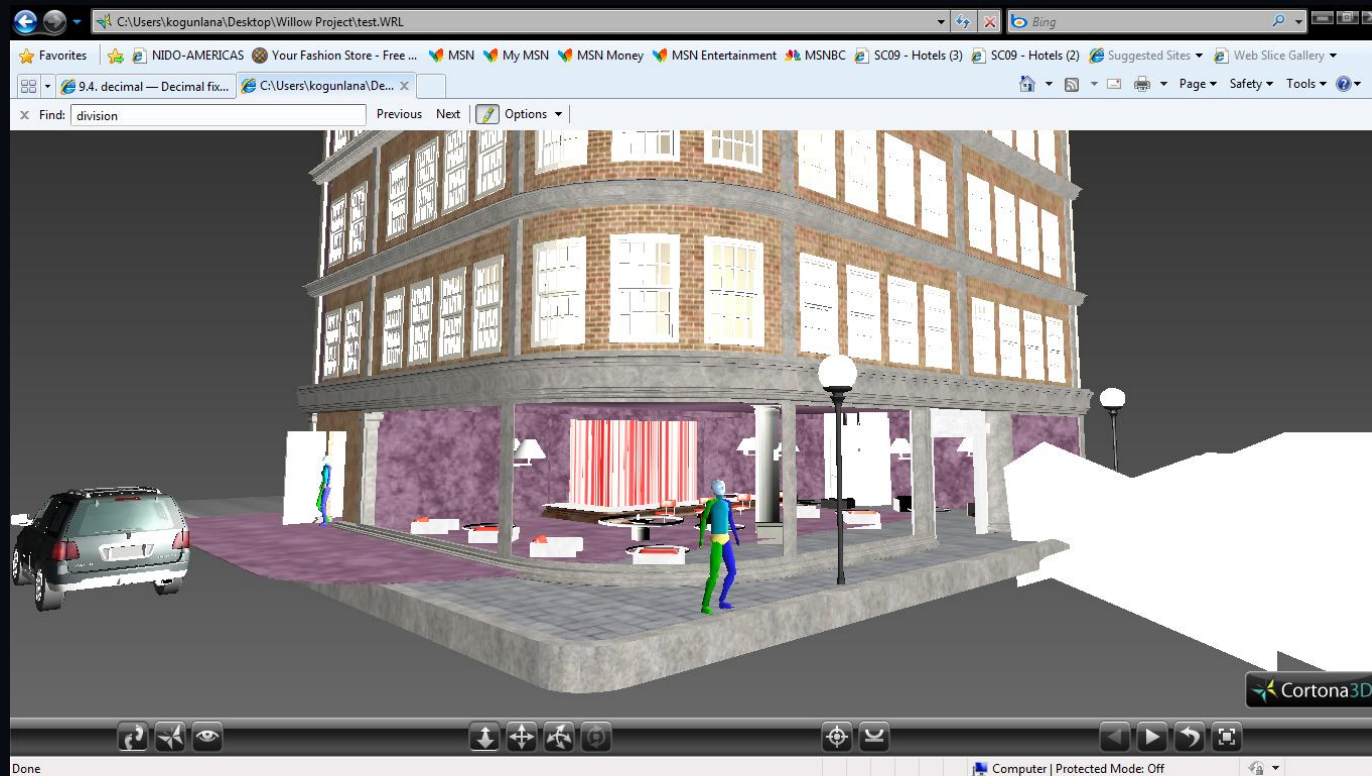
Door with VRML Touch Sensor



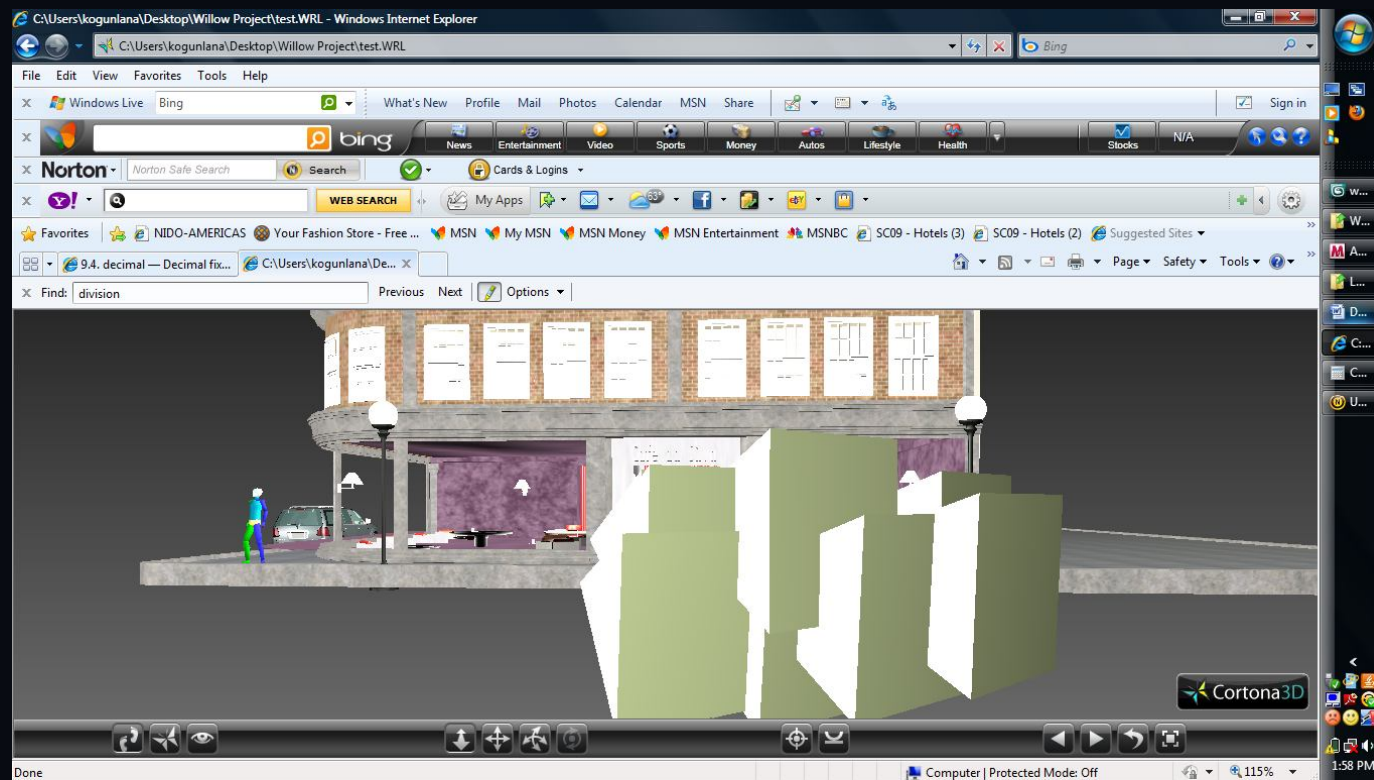
Door with VRML Touch Sensor



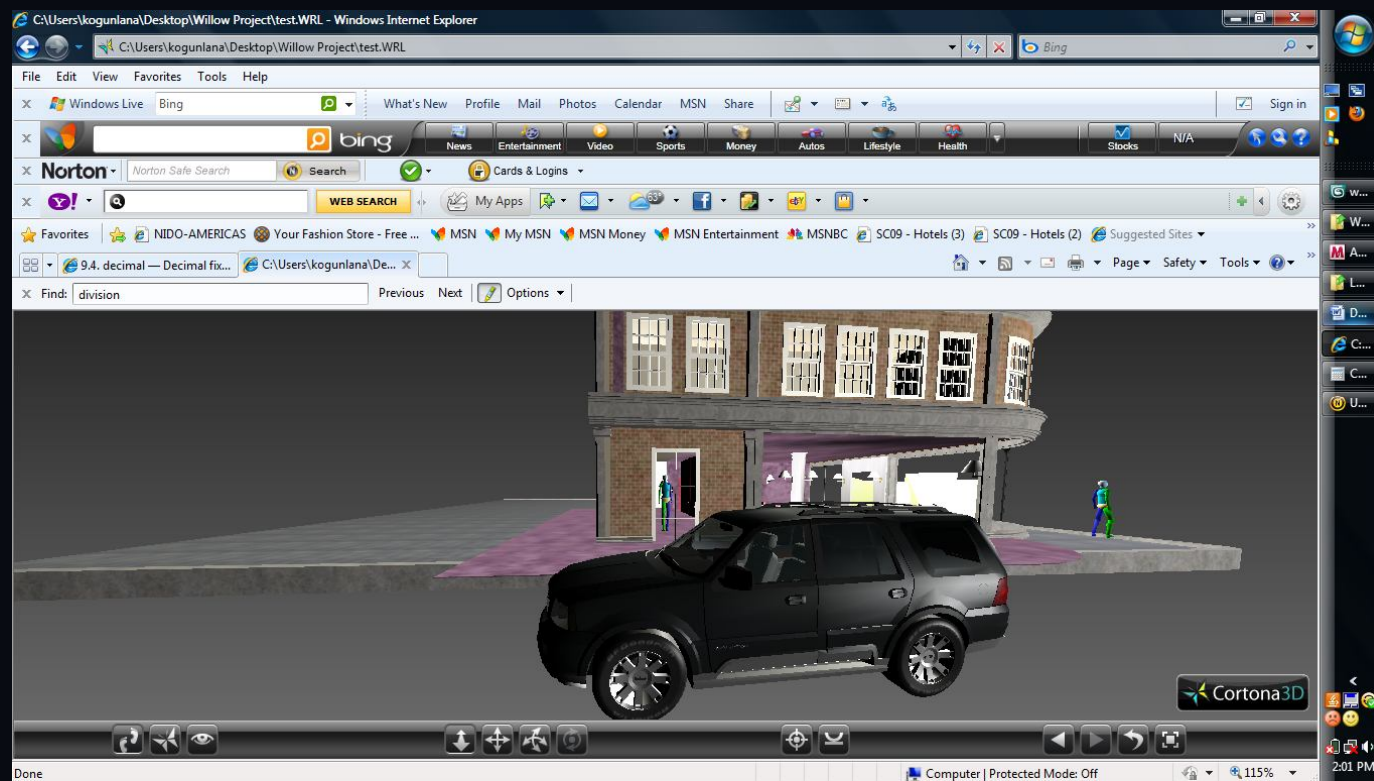
Crowd Behavior outside restaurant



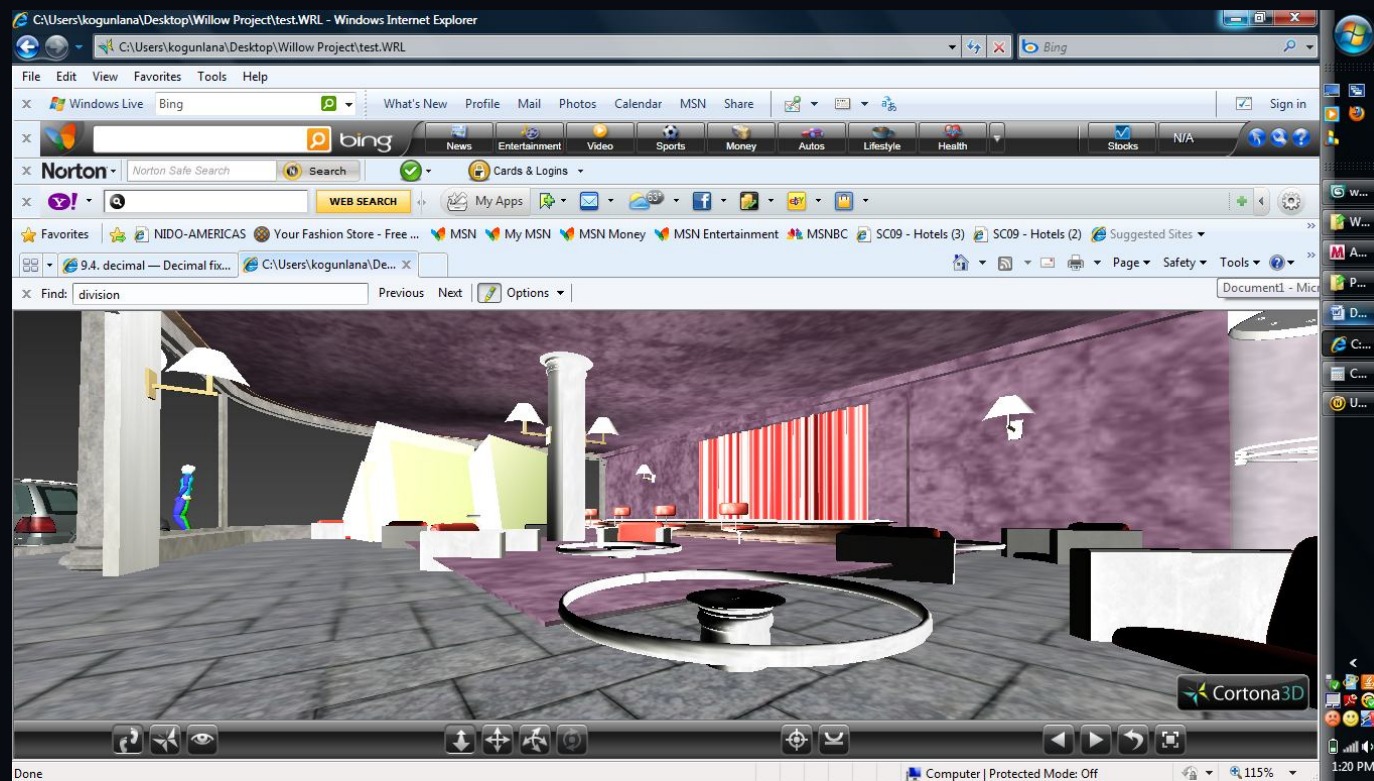
Crowd Behavior outside restaurant



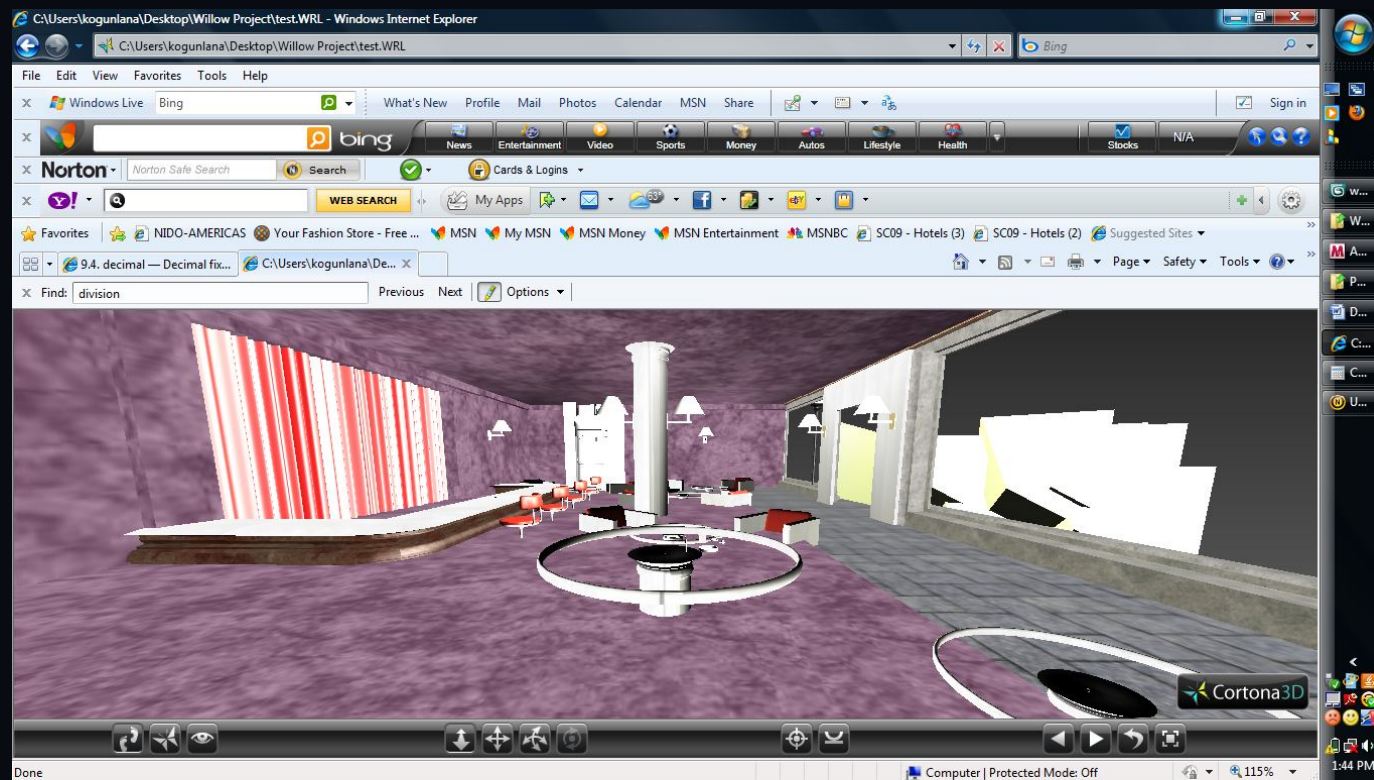
Crowd Behavior outside restaurant



Crowd Behavior inside restaurant



Crowd Behavior inside restaurant



A black and white photograph showing the silhouettes of several mannequins standing in a window display. The mannequins are dressed in various outfits, including dresses, skirts, and trousers. They are positioned behind a glass pane, and the background is a bright, overexposed area, possibly a sky or a large window. The overall tone is artistic and minimalist.

Advantages and Barriers

- Advantages of Adopting VR Restaurant Modeling
 - Enhanced communication and easy to explore restaurant context
 - Freedom of movement (movement between different scales and levels of details)
 - Different levels of immerseveness.
 - Ability to attach qualitative data to the models
 - Portability

A black and white photograph showing the silhouettes of several mannequins standing in a store window. The mannequins are wearing various outfits, including dresses, skirts, and trousers. The window has a grid pattern, and the background is bright, creating a high-contrast silhouette effect.

Advantages and Barriers

- Barriers of Adopting VR Restaurant Modeling
 - Technical Issues
 - Organizational Issues
 - Ownership of the models
 - Privacy and security
 - Time constraints

A black and white photograph of a window display featuring several mannequins. The mannequins are arranged in a row, each wearing different styles of clothing, including shirts, shorts, and trousers. They are positioned behind a glass pane with horizontal lines. The background is a bright, overexposed sky, creating a high-contrast silhouette effect. The word "Conclusion" is overlaid in white text on a dark blue background at the bottom of the image.

Conclusion



References

- <http://www.renderosity.com>
- <http://thefree3dmodels.com>
- <http://www.vrmlsite.com>
- <http://www.emory.edu/BUSINESS/vr.html>
- <http://usa.autodesk.com>



Demo