

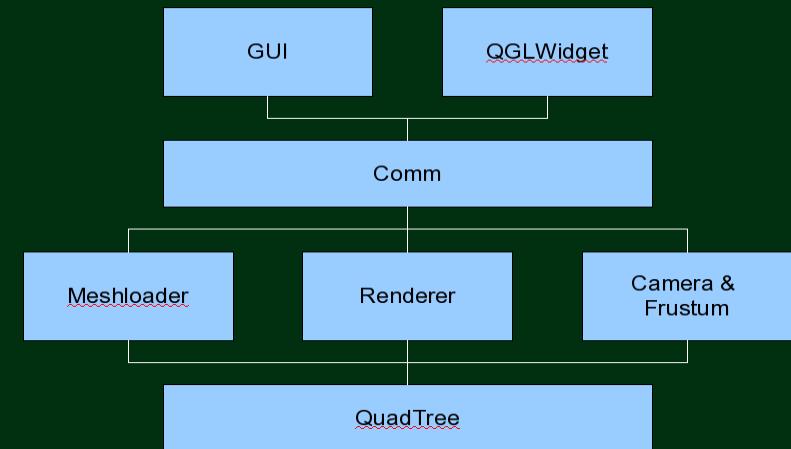
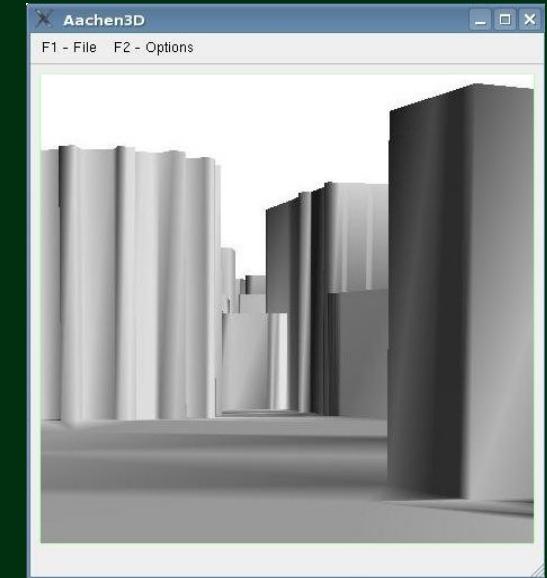
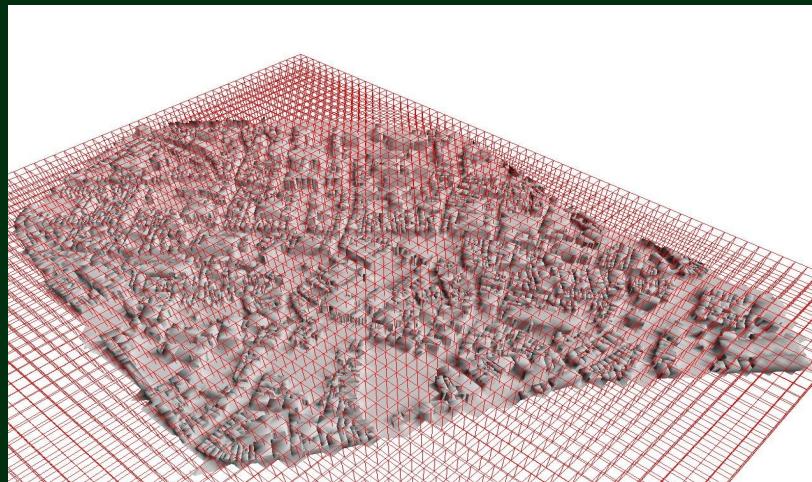
Milestone Meeting #3

- Demo -

Michael Königs
Michael Bußler

Overview

- Milestone 1:
 - First steps in OpenGL and QT
 - Create Framework
 - Quadtree, Meshloader..
 - Rendering

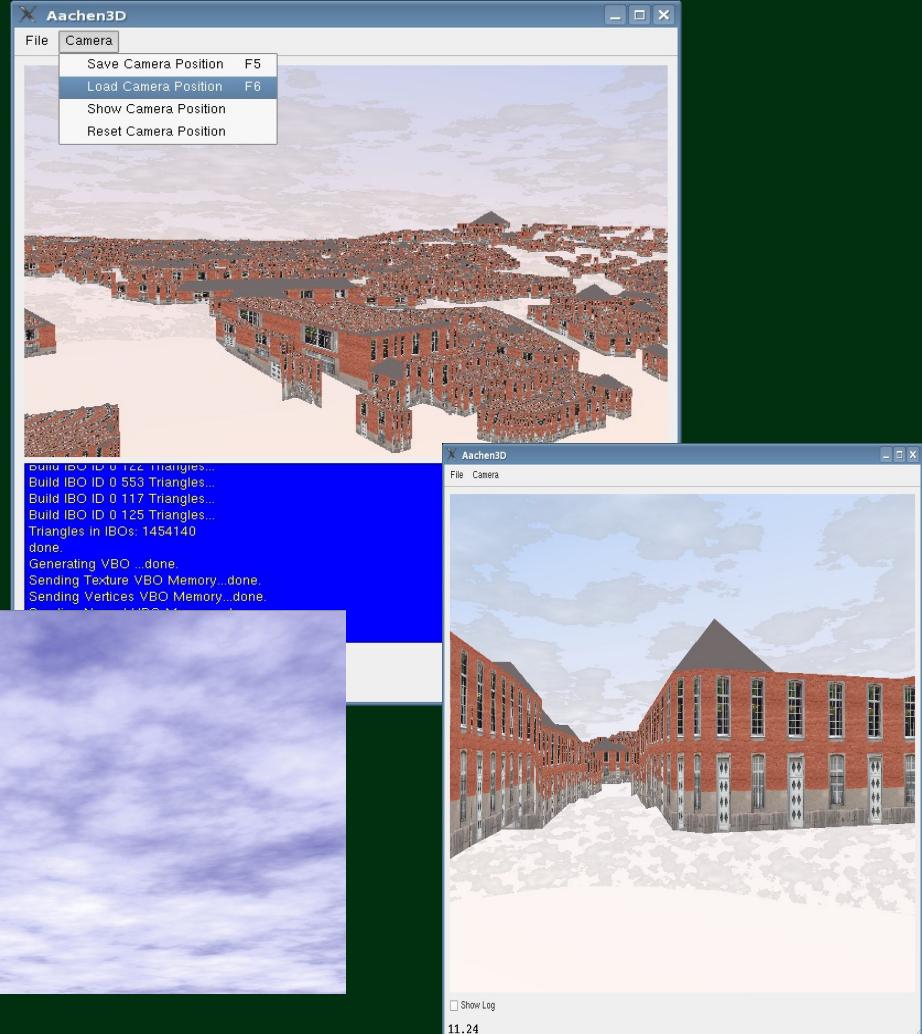
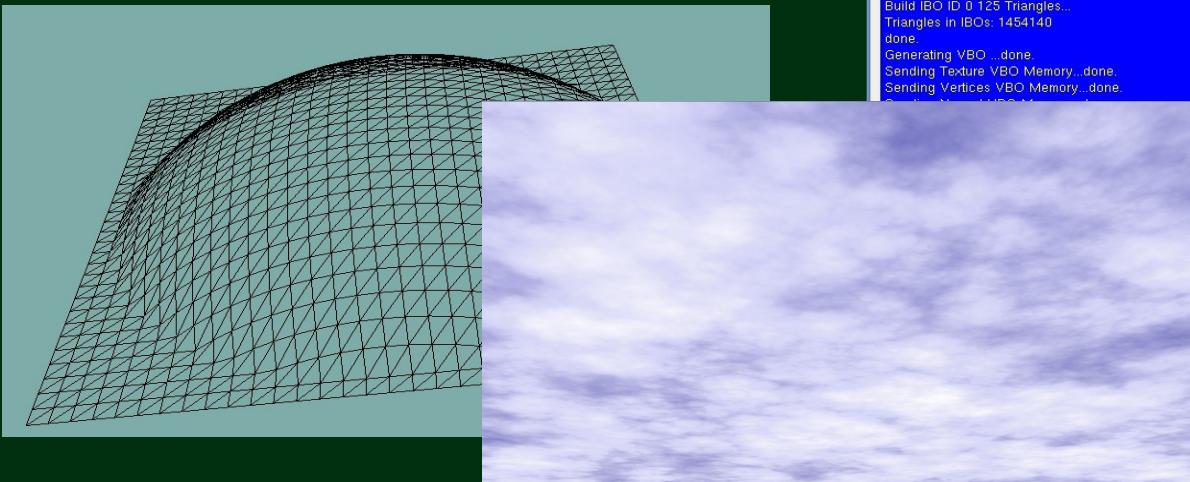


QuadTree, Camera and Frustum

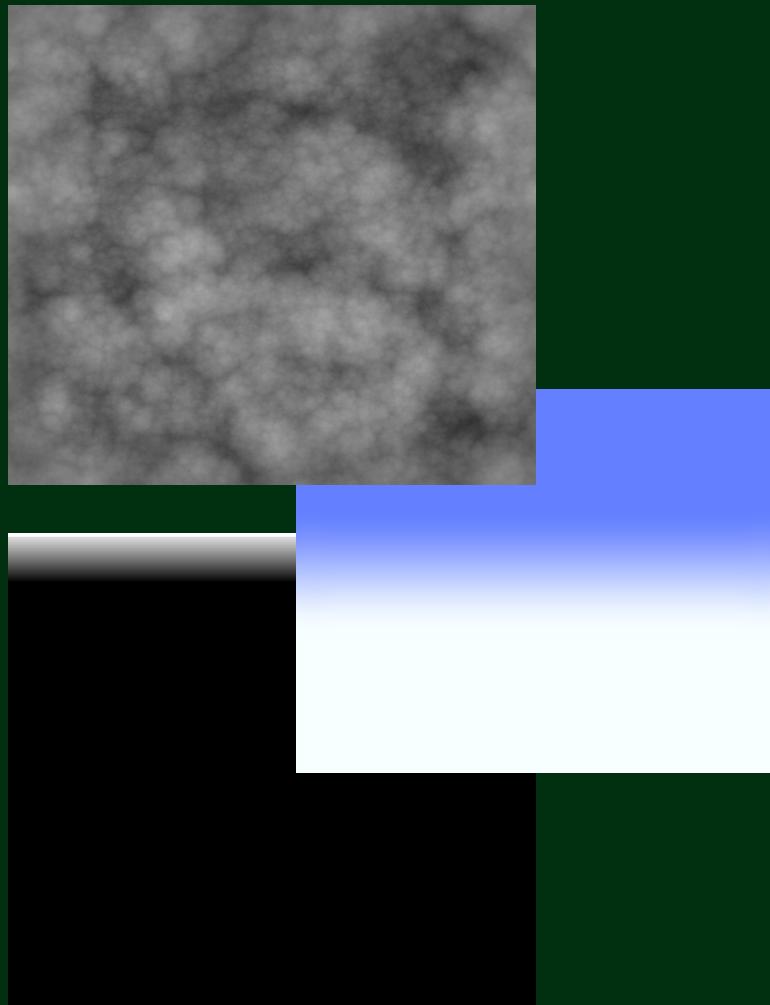
- Spatial Subdivision
- Automatically fits to mesh
- Sort Triangles into Leafnodes
- Sort Triangles in Leafnodes by id
- Improves Speed of Rendering and Collision detection
- Culling (Intersection Test)

Overview

- Milestone 2:
 - Improved GUI
 - Texturing
 - Dynamic Sky Sphere
 - Collision Detection



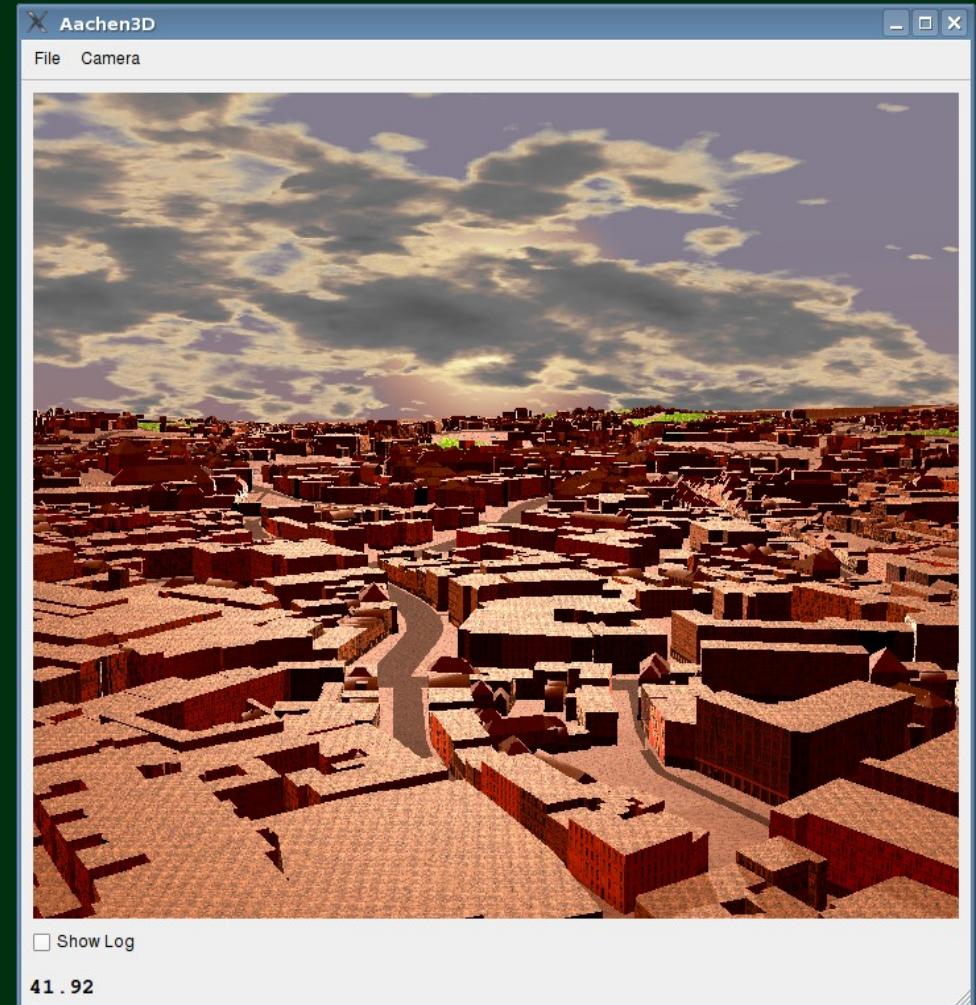
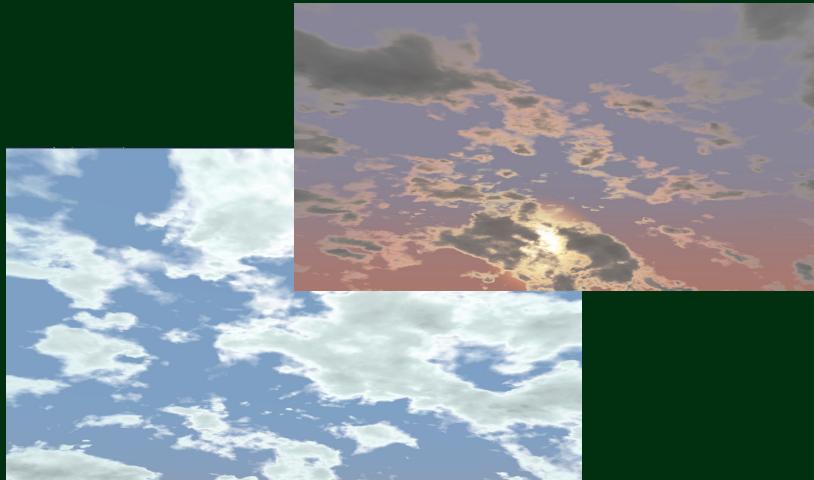
Sky Sphere Implementation



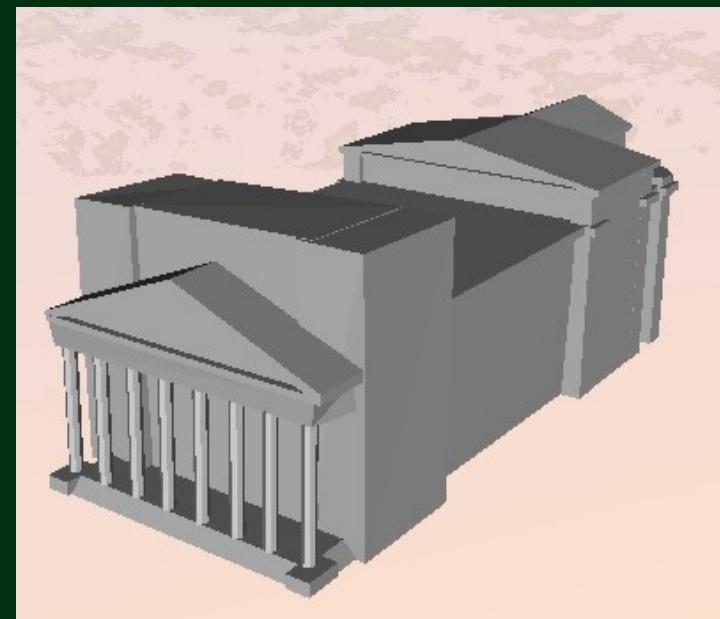
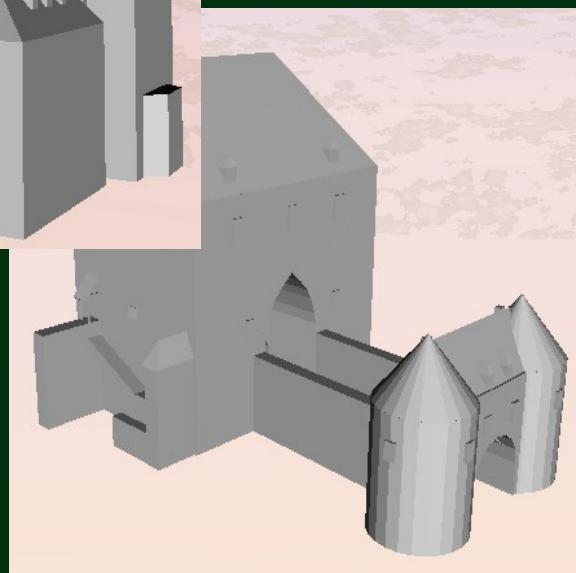
- Generates 3 texcoords
- shader does 3 texture lookups in cloud texture
- Uses a variable blend value to control number of clouds
- Blends cloud value and value from colorfade/sun texture
- Uses different color settings for different weather / daytime

Overview

- Milestone 3:
 - Shadows
 - VDT
 - Modelloader
 - Bugfixes
 - Create the Demo



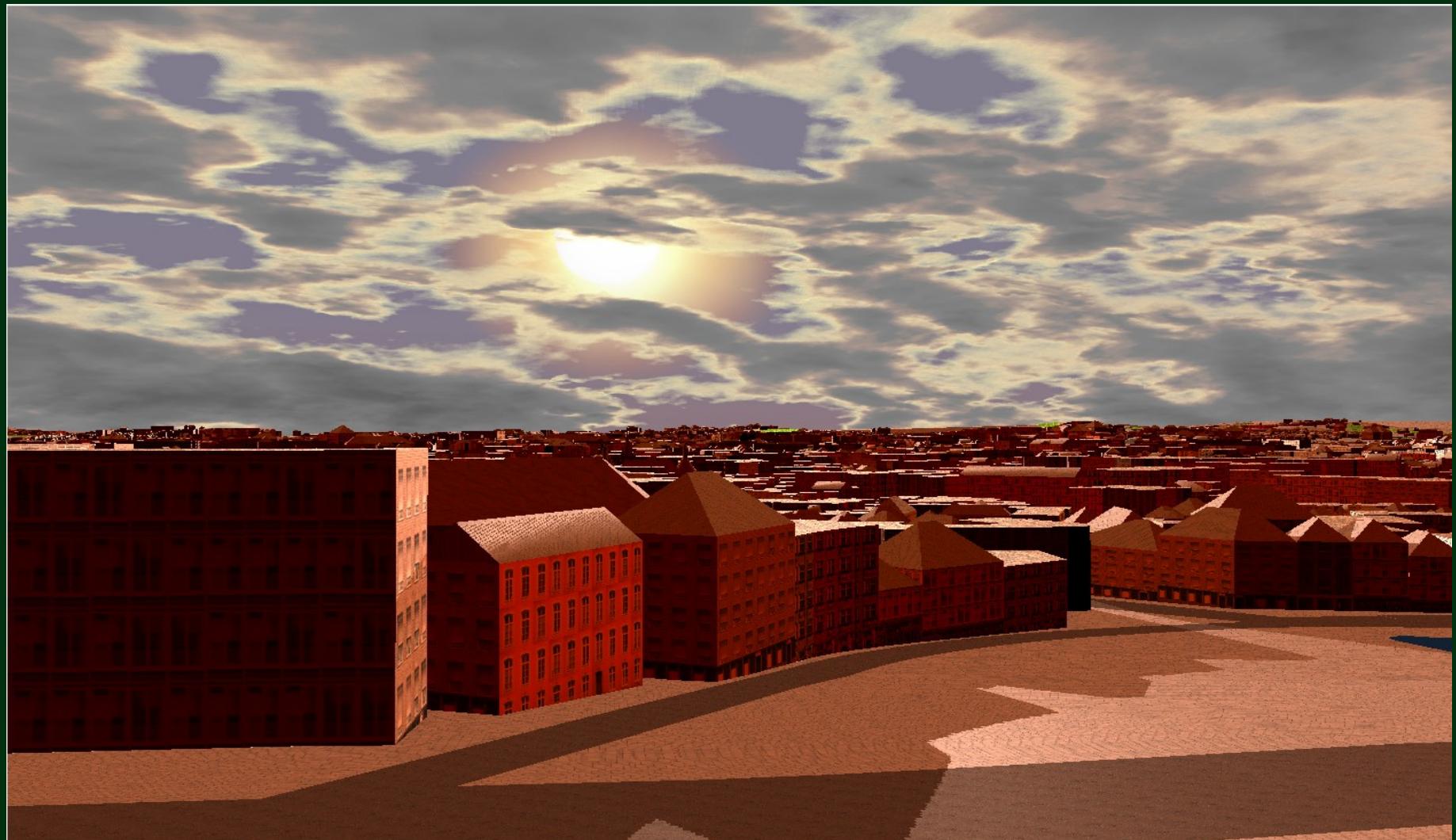
Modelloader



View Dependent Texturing



Shadows



The actual Demo

Will now be presented...

The End

Thank you for your attention