Real-time cartoon rendering

## Introduction

Cartoon rendering is non-photorealistic rendering (NPR). This poster approaches som issues in real-time cartoon rendering. A large part of the focus is to use the geometry shader available in the Shader Model 4.0 to achieve the desired effects. 4 different effects are presented here: Toon shading which is rather simple, bilinear key frame interpolation, silhouette and crease edge detection and extrusion and finally NPR wave simulation.


Bilinear key frame interpolation
By using bilinear interpolation on four key frames every frame, the avatar can be animated whilst on the same time morphed between two models. As an example, this can be used to simulate the morphing between a "good" avatar and an "evil" avatar.


