

CS4162 Virtual Worlds

Project Concept for the group of

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Overview of Project Idea

For the initial concept we all decided on designing a helicopter as we thought that this might provide a large pool of possibilities for different types of scripts and prims. Furthermore we took on the concept of an attack helicopter, specifically the Boeing AH-64 Apache, as we thought this helicopter could challenge us with the most interesting array of interactive objects linked together.

The AH-64 Apache was historically conceived through a line of attack helicopters developed for the United States Army. The Ah-64 itself sports a four blade rotor with twin engines, dual wheel landing gear and a tandem cockpit. In terms of firearms this attack helicopter takes on a chain gun carried under the aircraft between the landing gear and, in our case, four stub-wing pylons carrying hellfire missiles.

Description of Elements Created by Group and Sourced Online

Various scripts shall be coded by group members. Scripts will be required to fire the missiles out of the four weapon stations on the sides, and for firing the chain gun underneath. There will also be scripts required to spin the rotator blades above the helicopter and on its tail. Script will be required for the animation of the missiles leaving the weapons in the helicopter, so they can explode on impact with a solid surface. The helicopter will also require script that will allow movement by its pilot. These elements will all be created with help and reference from internet sources such as the Second Life Wikipedia, and coding forums such as Stackoverflow.

The prims shall be created by group members with possible reference to existing content from online image sites and forums. These prims will be created in either the virtual world itself or in 3D modelling programs.

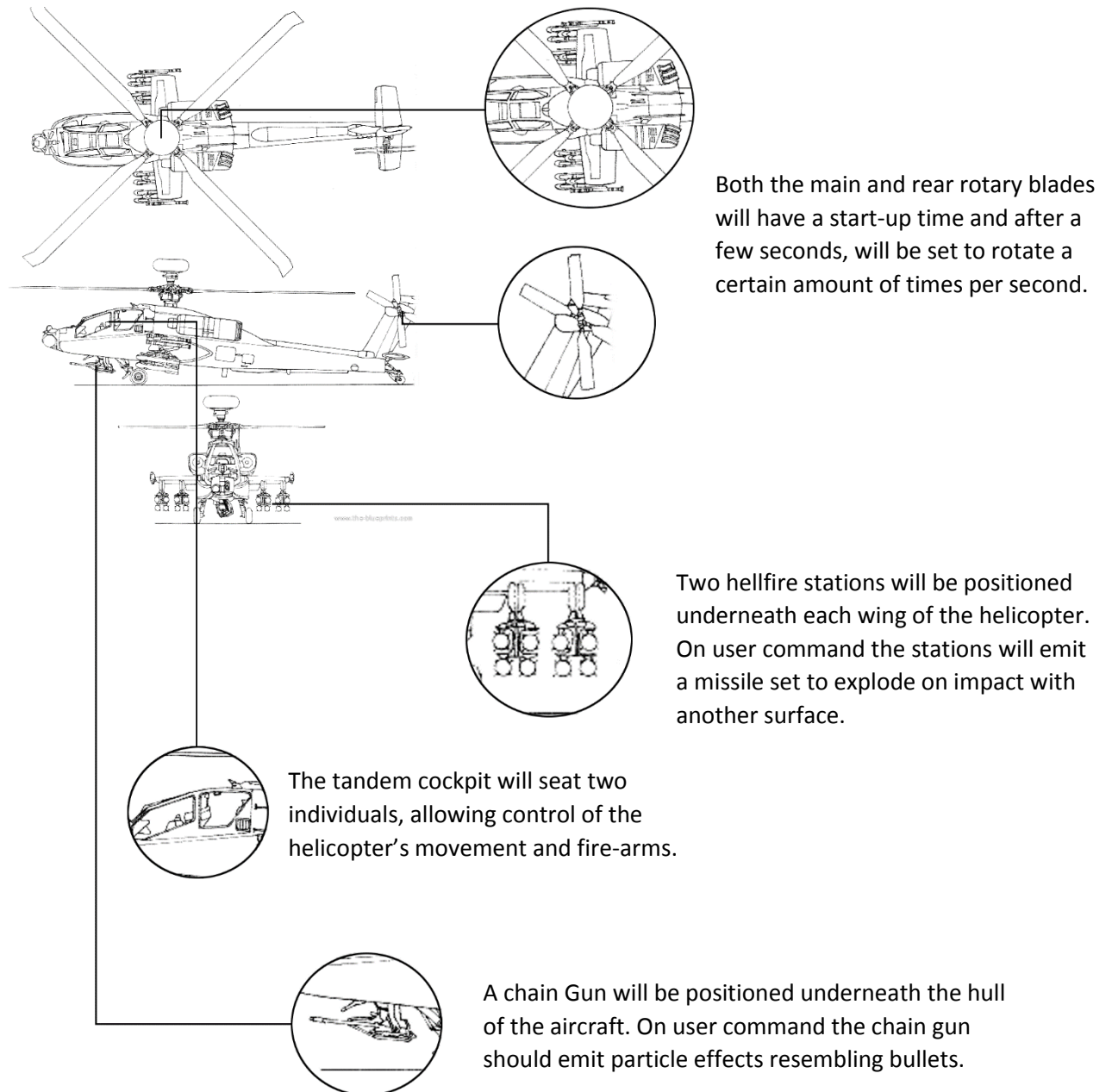
Textures and images for the appearance on the helicopter will be taken from the internet off of sources such as Google Images. They will be used to affect the helicopters appearance to replicate its real-life appearance.

Description of Workload Distribution

Each group member will create the scripts for at least one function of the helicopter, taking on more if meaningful relations are found between other functions or prims.

Each group member will contribute to the design of the helicopter. The creation of prims will be divided between group members in relation to the volume of scripting they take on.

Sketches of Interactive Object and Illustrations of Functions



References

1. The Wikipedia article http://en.wikipedia.org/wiki/Boeing_AH-64_Apache was used to source information on the Boeing AH-64 Apache.
2. <http://imgbuddy.com/apache-longbow-helicopter-blueprints.asp> was used for the base sketches of the AH-64 Apache.