
THE PROCESS OF MODELING A CARTOON CHARACTER

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To create a three-dimensional object, you need a computer program that has the necessary tools, functions and templates. To implement a three-dimensional model, starting points are set at the beginning of the path, from which the development of a 3D model begins. Thus, the creation of a three-dimensional model consists of the following stages: concept, modeling, texturing, consecration (Fig. 1). After performing these actions, the model is ready for further work with the three-dimensional model and subsequent visualization: rigging (creating a skeleton, a set of bones / joints), animation.

First of all, when creating a model, an idea is used. Usually, when creating a three-dimensional model, they look for references [1]. These can be both images and real-life examples, and a three-dimensional model is already being created on their basis. If there is a reference, it will be possible to understand the goals faster, it is easier to understand how a three-dimensional model will look and further actions of performing a three-dimensional model in practice are visible. After finding the reference, the next stage is the stage of modeling the model.

The blender program has basic modeling methods, such as: spline modeling, which is the creation of 3D objects using curved lines (splines) and polygonal modeling, which makes it possible to perform various manipulations with the grid of a 3D object at the level of subobjects: vertices, edges, faces, which are called B-splines. In addition, the blender program also has simple modeling methods -primitives, the method implies that we take a ready-made primitive that is already available in the program, for example, a cube or a ball. Consequently, we can deform the primitive as we want, but the complex method differs in that we will have to initially make an object to work with it

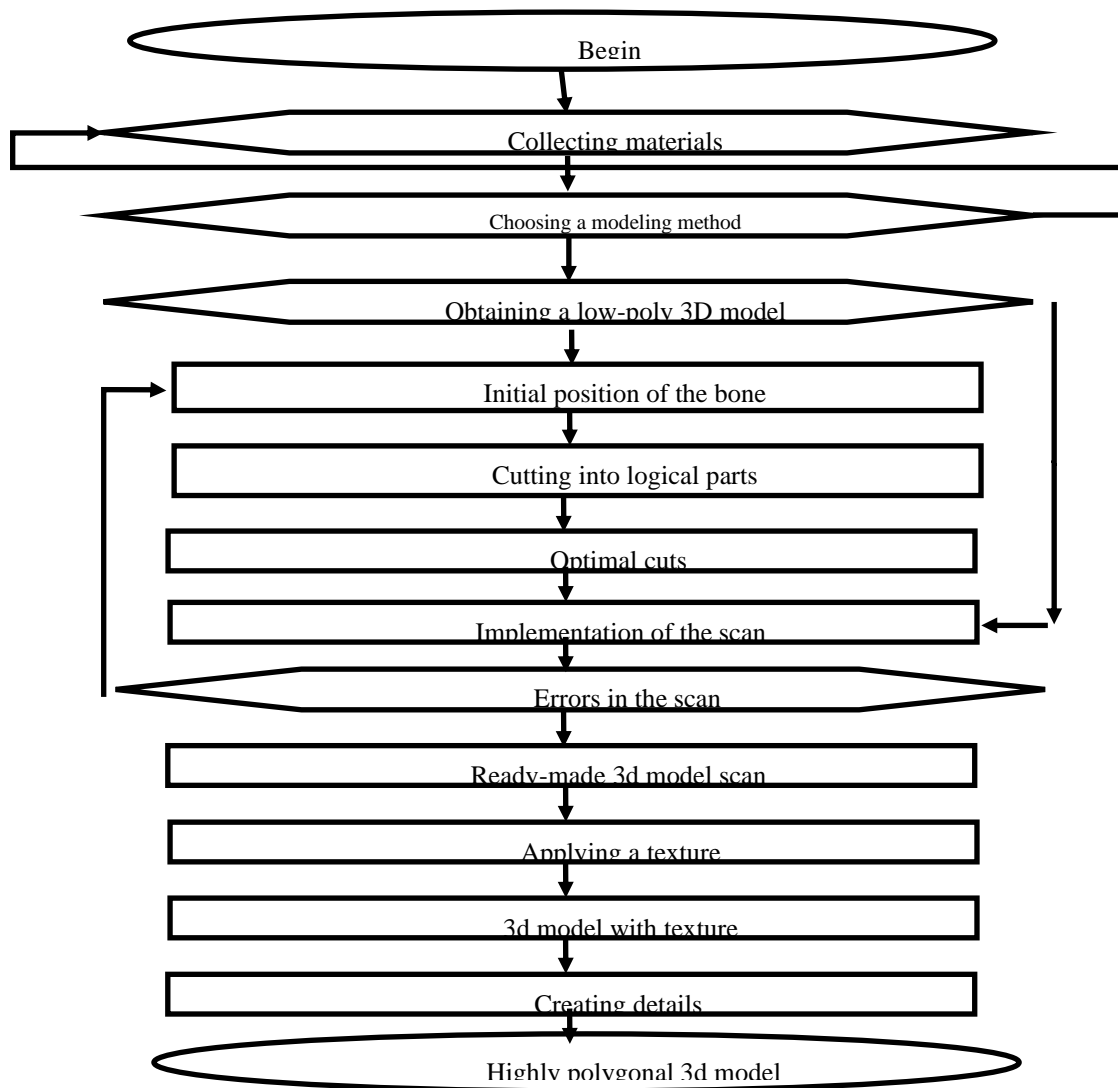


Fig.1. Flow diagram of the process of creating a three-dimensional model

Primitives are often chosen for the initial modeling of a three-dimensional object [1]. Most likely, such popularity is caused by the easy way of editing the structure, a large selection of tools and modeling methods. A plentiful offer to help the user. From tools for low-poly editing to high-poly parts. Any object can be created using the simplest primitives such as: plane (plane), cube (cube), circle (circle), cylinder (cylinder), cone (cone) and others [1]. A primitive such as a cube is used by users most often. It is difficult to imagine that a realistic human figure, equipment and much more can be made from a cube. And without adding other objects, just modifying the original primitive.

Reference:

1. Creating materials and textures for three-dimensional models. - Text : electronic//Masked Brothers:[website].-URL: https://www.maskedbrothers.ru/articles/texture_creation/ (accessed: 05/20/2020).