

The aesthetic values of Birds' motion in animated cartoons

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The research summary

This research highlights the importance of the analytical study of the birds' movements and the aesthetic values of this movement. Since animation is considered as a development of visual arts since the beginning of creation, it was necessary to study the movement evolution of fine artists till they found ways to enable us to watch the movement on the screen. The artist has gone through a lot of experience, he invented several devices for the motion of the static graphics and the motion of the three-dimensional objects using the latest equipment.

Artists have tried throughout history to recall the time and movement in art. Many studies and researches were done by the artists to achieve the production of the movement until they reached the industry of animation Not only that but they continued to research and develop to invent different techniques to produce movement within the animation until they managed to reach the methods and techniques to produce movement within the animation movies and all these techniques are looking for the same concept which is to emphasize the element of movement and transmission of the viewer. Starting with the traditional means until we reached the age of technology and with the entry of the computer graphics art, the conventional methods in the animation industry have evolved and many attempts have emerged, all of which are looking at the same field

The research here explores the concept of movement in the bird as an effective aesthetic value in the animation and the study of the impact of different movements in the animation. These movements designed by the artist on paper to show the movement from being just imagination to a visible reality recorded on the tape. The research includes an analytical study of the aesthetic values of the movement of flying within animation films produced by different animation techniques. Like any artistic medium, the animation is full of innovators and geniuses. Although the use of motion pictures to tell stories has existed since prehistoric times, the animation we are talking about today really began in the 19th century and continues to evolve.

Key Words: Animation - Motion - Movement of birds - Animation techniques

Preface

The movement element is one of the most important elements of the film animation. It adds rhythm and life to the film. As the man began his life on the earth, he started the journey of searching for the meaning of life and he started to meditate. That's why his questions increased, he started to think about how to keep the questions and answers going through his

mind, and finally he reached the idea of recording these things to leave a mark for himself and for the next generations. Trying to benefit from the surroundings of the dust, water, snakes, trees and stones. Etc... He started to record his diary on all the surrounding animal skins and cavern walls.

His first experiences were just simple forms, such as symbols and hand drawings. With the increase of his meditation, he started to develop his drawings of man, animals and birds, using his own sense. The elements of the plastic painting consist of point, line, composition, mass, space, color, light, rhythm etc. But, the cartoon image of the animation film is also based on the same elements in addition to the animation element. In order to present a successful animation film, all elements should be taken into consideration.

Despite the advances of modern technology, the technique of artistic work depends more on the mental abilities of the artist and the extent of his imagination and his proficiency and understanding of the fundamentals of art and animation and his experience in this area. Technology is not only a way for the artist to achieve his desires and cannot be the only thing to rely on. The study of good handcraft methods increases the knowledge of the artist and this shows the difference between the creative artist and the average person, but the creative artist differs by his knowledge and study of art and science of anatomy and shadow and light and colors, with these studies.

Research problems

- Some animation designers ignore the importance of animation for animals in animated films, specifically the movement of birds, which reduces the aesthetic values of the animated film.
- The bird, although being small in size, but it is a great area of creativity and shows the creative thought of the artist.

Research goals

- Improve the level of art in animation films in Egypt through paying attention to the movement of birds within the film.
- How to benefit from different techniques in the production of the movement of the bird within the animation films.

Research importance

The Importance of the research is:

- Highlighting the importance of the movement of all elements within the animation film and specifically the movement of birds within the film.
- Identifying the development stages of the movement of the bird.
- Identifying the plastic and technical aspects of the production of the bird's movement within the animation film.

Research Assumptions

The research assumes that the analytical study of the movement of birds within the animation film contributes to the development of the Animation films level in Egypt.

Research limits

- Place Limits:
 - The research is concerned with the study of the bird's movement in some animation films in America and Europe
- Time Limits:
 - The research is concerned with study of the movement of different birds and their evolution in animation films from 1926 until 2014.

Research Methodology

This Research follows the descriptive and analytical method.

Analysis of the movement of the bird and study his behavior

At first glance the wing beats of a bird appear to be a simple upward and downward motion, but as you would imagine there is much more to it than that. Flight is determined by a wide variety of circumstances other than the type of bird.

Analysis of birds' motion within traditional animation technique

Traditional animation is sometimes called hand-drawn animation or cel animation and, for most of the 20th Century, And the first attempts of traditional animation have A Flipbook and it is a series of illustrations of an animated scene bound together in sequence so that an illusion of movement can be imparted by flipping them rapidly and there are other traditional animation called rotoscoping, which used a live-action recording as a template for animation.

Analysis of birds' motion within Stop Motion technique

Stop-Motion animation can be referred to any animation that uses objects that are photographed in a sequence to create the illusion of movement. And this technique has many type like Clay Animation - Objects -Puppet Animation - Cut Out.

Analysis of birds' motion within Computer Animation technique

Computer animation is the art of creating moving images via the use of computers. Include,2D Computer animation such as (Anime Studio, Toon Boom, Flash, After Effects) and 3D Computer animation such as (3d Maya, 3d Max, Cinema Studio).

Analysis of birds' motion within Motion Capture

Motion Capture is a technology for digitally recording specific movements of a person (such as an actor) and translating them into computer-animated images, Motion capture from live birds is not as easy as human motion capture because of the lack of cooperation from subjects, so more effort is required, but at the moment, with high-quality cameras and technologies, you can simulate movement Organisms by High resolution.

Research Pillars

- Bird's movement and behavior analysis
- Animation technique using Traditional Animation method
- Animation technique using Stop Motion method
- Animation technique using the Computer Animation method

Research results

The research reached many results including:

- Analytical study of the anatomy of birds and the bird's movement is important for the animation designers
- The good animation movies designers paid attention to the bird's movement because of its prominent role in the animation movies
- The animation film is a general view with all its elements and attention must be paid to all elements of the animation film, whether basic or secondary elements, because of their great impact in achieving the aesthetic value of the animation film
- The movements of birds in good animation movies are varied and innovative and based on a good study of anatomy and the nature of the movement of birds.

Recommendations

The research recommends the following:

- Attention to all elements of the animation film, whether major or minor elements such as the movement of birds because of their significant impact in improving the level of the animation movies.
- Highlight the artistic creations of the bird's movement.
- The need to keep pace with evolution while preserving the aesthetic values of the rules of animation of birds.
- Encourage more technical experiments to study the aesthetic values of the movement of the bird in animation movies.

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