

Animation

9.1

INTRODUCTION

'Animate' means 'to give life to'. Animations are created from a sequence of still images. Each image is slightly changed from the previous one with respect to one or more objects in the image. The images are then displayed rapidly in succession so that the eye is fooled into perceiving continuous motion due to **persistence of vision**. This is the tendency of the eye and brain to continue to perceive an image even after it has disappeared. For example, a sequence of images of a bird showing various positions of its wings (Fig. 9.1) when displayed rapidly one after another gives the illusion of the bird flapping its wings. In this respect animation uses the same principles as motion video. However animation generally deals with graphics drawn by individuals, either by hand or by using software, in contrast to motion video, which deals with actual photographs of real-world objects taken through a camera. Animation can also involve a model, which is changed by small amounts at a time and then repeatedly photographed. This type of animation is referred to a **stop motion animation**. Traditionally animation sequences are created by two types of artists: the lead artists or experts who draw those frames where major changes take place within the sequence, called **key-frames**, while the assistants draw a number of frames in between the key-frames, a process called **tweening**. The process was quite laborious and time-consuming. Fortunately computers nowadays can be used to do the tweening process thereby cutting down the time and making the drawings more accurate. Animation file formats like animated-GIF and Flash-SWF allow us to view animations on a computer or over the Internet.



Figure 9.1

Animation consist of a sequence of frames

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Computers and Education H. J. van der Aa,1970

American Universities and Colleges ,2014-10-08 No detailed description available for American Universities and Colleges

Tutorial, Software Development Environments Anthony I. Wasserman,1981

The Big Book of Colleges, 1997 Edward Custard,Princeton Review (Firm),1996-07-30 Lists more than 1 600 colleges and universities and provides information about admissions and academic programs

Tutorial--end User Facilities in the 1980's James A. Larson,1982 In the 1980 s new developments and commercial offerings will radically change the relationship of the computer and those who wish to use it The emphasis today is on the needs of the user on systems that are easier to learn easier to use more responsive and more solution oriented Modern end user facilities allow almost anyone to interact directly with the computer This book is intended for applications programmers and system analysts who design and implement systems for users who have no expertise in computing It describes trends and techniques that enable nonexperts to interact easily with computerized systems and use them to become more productive The papers appearing here were selected because they are the best available descriptions of what end user facilities will be like for the remainder of this decade

Occupational Education ,1993

The International Journal of Applied Engineering Education ,1990

The College Blue Book ,2010

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College Blue Book Macmillan Reference USA.,2007-11 Guide to thousands of 2 and 4 year schools in the U S and Canada Covers the expected listings and detailed descriptions degree programs offered scholarships and occupational education programs

Proceedings of the ... Cross-Campus Conference on Education ,1990

The College Handbook College Entrance Examination Board,1998 Presents information on 4 year colleges and universities and 2 year community colleges and technical schools

Proceedings of the 1990 Cross-Campus Conference on Education, 3rd-6th April 1990, Kingston, Jamaica ,1991

Graduate Catalog Iowa State University,1981

Who's who in Engineering ,1995

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