м

Lesson 12 Multimedia and It's Application

- 12.A The Concept of Multimedia
- 12.B Computer Graphics

v

12.A The Concept of Multimedia

- Introduction
- What's multimedia
- Different media elements
 - □ Text
 - □ Graphics
 - □Animation
 - □Video
 - □Audio



- Multimedia is a set of more than one media element used to produce a concrete and more structured way of communication.
- 多媒体是一组多种媒体元素的集合,用于产生一种具体的、更结构化的表达方式。

concrete a.	具体的	structured	结构化的
simultaneous	同时的		



1 Introduction

- Its importance has been realized in almost all walks of life, may it be education, cinema, advertising, fashion, and what not.
- 它的重要性几乎在各行各业都已被认识到,可能 是教育、电影、广告、时尚等等。

may it be	可能是	what not	诸如此类	

2 What's multimedia

- Multimedia systems are those computer platforms and software tools that support the interactive uses of text, graphics, animation, audio, or motion video.
- 多媒体系统是支持文本、图形、动画、音频或 运动视频交互使用的计算机平台和软件工具。

graphics	图形	animation	动画
platform	平台		
academic presentation		学术报告	
corporate pre	sentation	公司介绍	

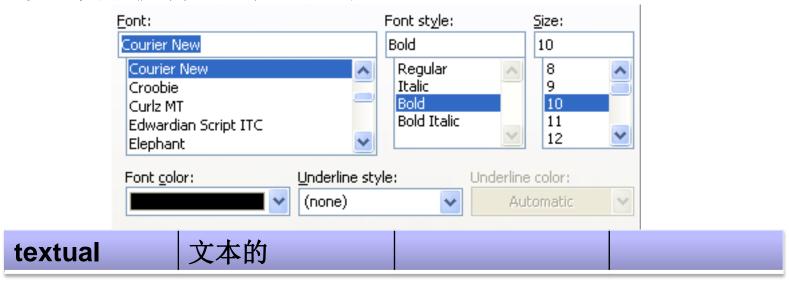


2 What's multimedia

- If the sequence and timing of these media elements can be controlled by the user, then one can name it as Interactive Multimedia.
- 如果这些媒体元素的顺序和节奏可以由用户控制,则可以将其命名为交互式多媒体。

timing	节奏		
Interactive Mu	ultimedia	交互式多媒体	

- The text can have different type, size, color and style to suit the professional requirement of the multimedia software.
- 文本可以有不同的类型,大小,颜色和<mark>样式</mark>,以适应多媒体软件的专业要求。



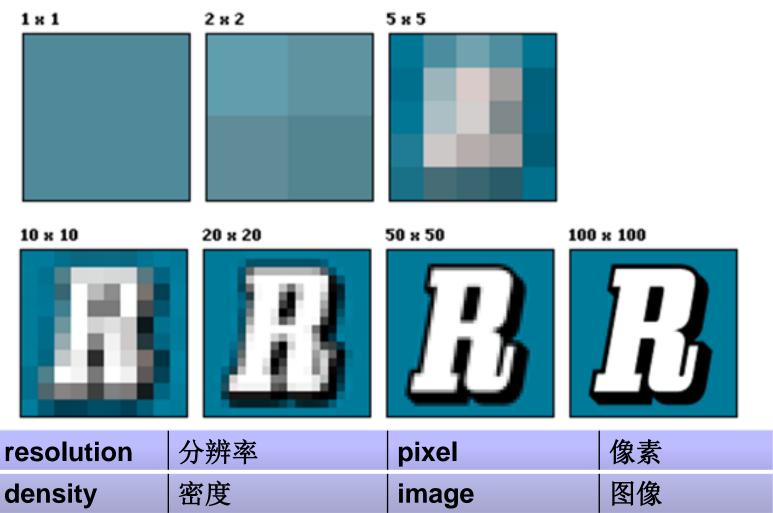


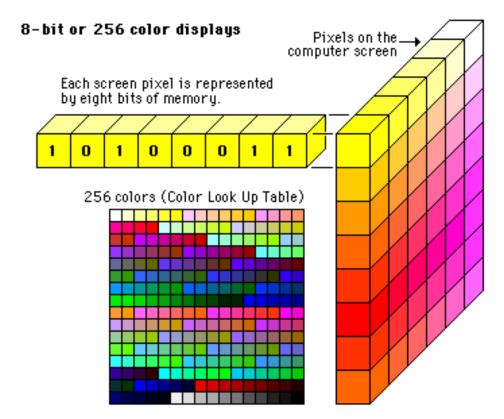
- As a matter of fact, taking into consideration the human nature, a subject is more explained with some sort of pictorial/graphical representation, rather than as a large chunk of text.
- 事实上,考虑到人的本性,一个主题更多的是用某种图像/图形的表现来解释,而不是用一大块文本。
- A picture is worth a thousand words.



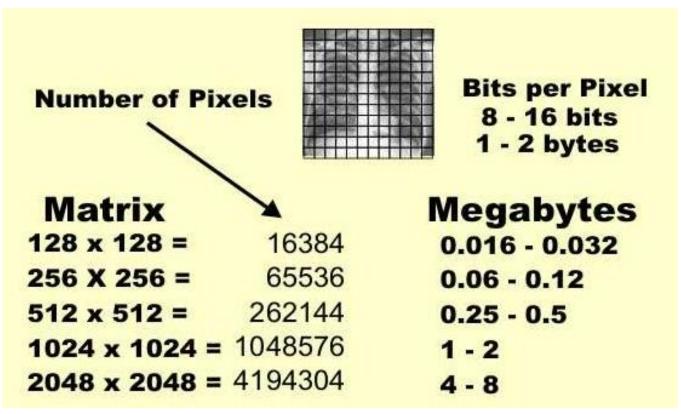
- This also helps to develop a clean multimedia screen, whereas use of large amount of text in a screen makes it dull in presentation.
- 这也有助于开发一个简洁的多媒体屏幕,而在 屏幕上使用大量文本会使其在演示中变得单调 乏味。

universal	普遍的	format	格式
ВМР	bitmap picture	位图图像	





resolution	分辨率	pixel	像素
density	密度	image	图像



resolution	分辨率	pixel	像素
density	密度	image	图像

м

- If the image size is bigger, it <u>takes</u> more time to load and also <u>requires</u> higher memory <u>for</u> processing and larger disk space <u>for</u> storage.
- 如果图像大小更大,则需要更多的时间来加载,还需要更大的内存进行处理、更大的磁盘空间进行存储。
- Different graphics formats are available which <u>take</u> less space and <u>are</u> faster to load into the memory.
- 可以使用不同的图形格式,它们占用的空间更少,加载到内存中的速度更快。



- There are several graphics packages available to develop excellent images and also to compress them so that they take lesser disk space but use higher resolution and more colors.
- 有一些图形包可用于开发优秀的图像,并压缩 它们,使图像占用较少的磁盘空间,但具有更 高的分辨率和更多的颜色。

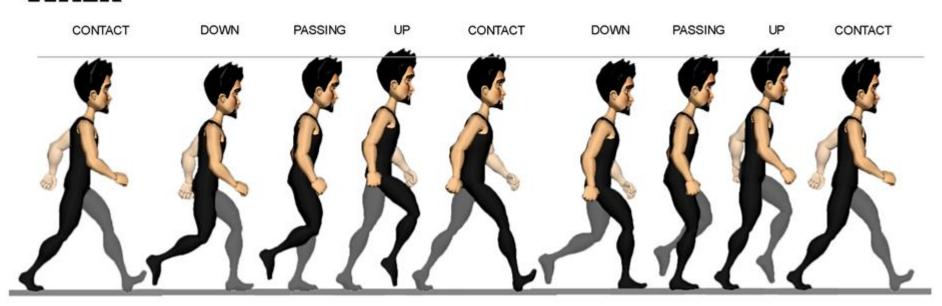
readymade	现成的	incorporate into	纳入
-----------	-----	------------------	----



- Whereas video takes continuous motion and break it up into discrete frames, animation starts with independent pictures and puts them together to form the illusion of continuous motion.
- 视频捕获连续运动并将其分解为<mark>离散</mark>帧,而动画则从独立图片开始,将它们组合在一起,形成连续运动的错觉。

simulation	模拟	frame	桢,画面
monitor	显示器	discrete	离散的

WALK

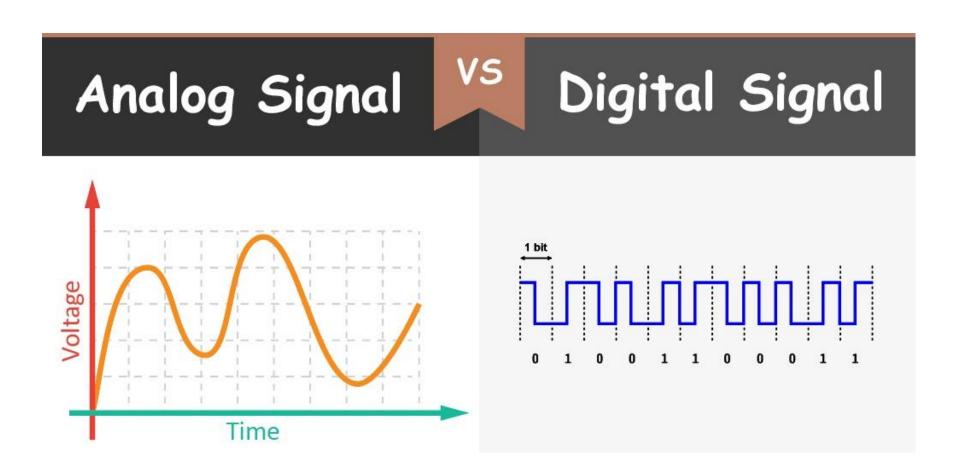


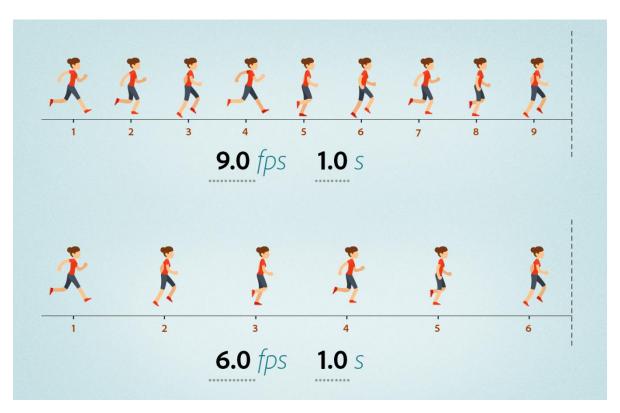
Animation



- With latest technology it is possible to include video impact on clips of any type into any multimedia creation.
- 使用最新技术,可以将视频对任何类型剪辑的 影响纳入任何多媒体创作。

sound effect	音效	moving picture	电影;影片
video film	录像片	analog	模拟





frame rate	帧率	still	a.	静止的
fps	frame per second			

- Latest video compression software makes it possible to compress the digitized video clips to its maximum.
- 最新的视频压缩软件可以最大限度地压缩数字化视频片 段。
- Caution should be taken while digitizing the video from analog source to avoid frame dropping and distortion.
- 当从模拟源数字化视频时,应注意避免帧丢失和失真。

make it possible	让它成为可能	compression	n.	压缩	

- Currently, video is good for: promoting television shows, films, or other non-computer media that traditionally have used trailers in their advertising; giving users an impression of a speaker's personality; showing things that move.
- 目前,视频有助于:推广电视节目、电影或其他非计算机 媒体,这些媒体传统上在广告中使用预告片;给用户演讲 者个性的印象;显示移动的事物。
- Product demos of physical products are also well suited for video.
- 实物产品的产品演示也非常适合视频。



- Incorporation of audio is one of the most important features of multimedia, which enhance the multimedia usability to its full potential.
- 加入音频是多媒体最重要的特征之一,它充分发挥了多 媒体的可用性。
- All these can be used in any combination as long as they give some meaning to their inclusion in multimedia.
- 所有这些都可以任何组合使用,只要它们为它们所在多 媒体赋予了一些意义。

life	活力	static state	静态

