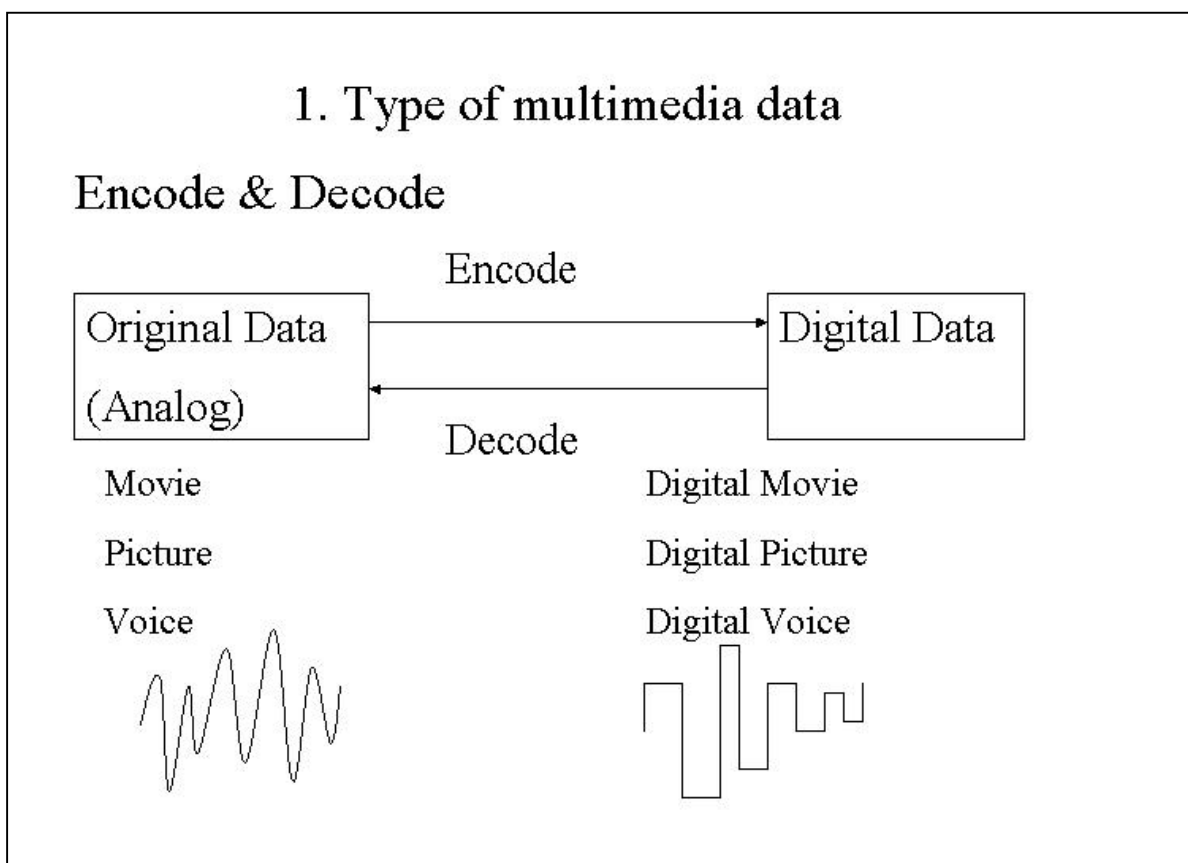


Appendix 8: Multimedia Data

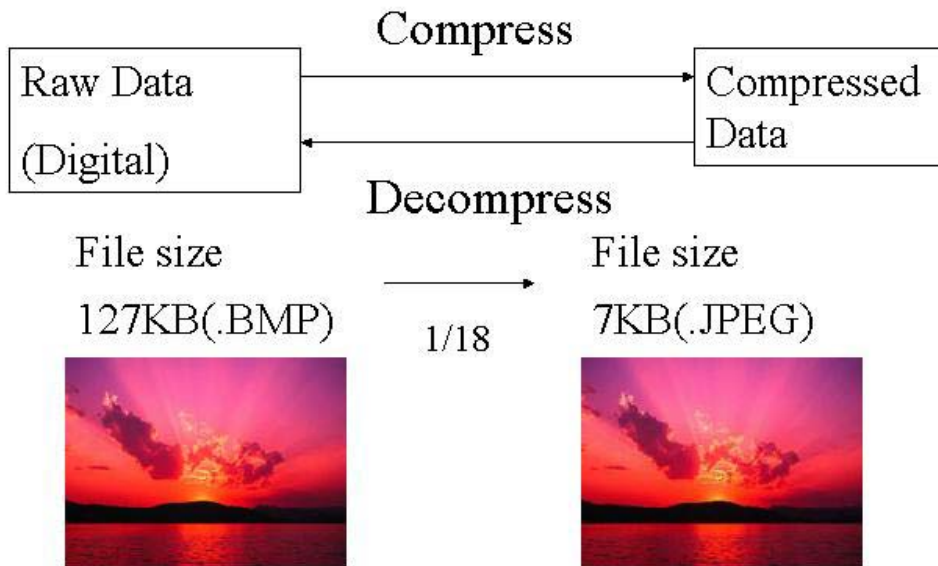
Multimedia data

Level : beginner

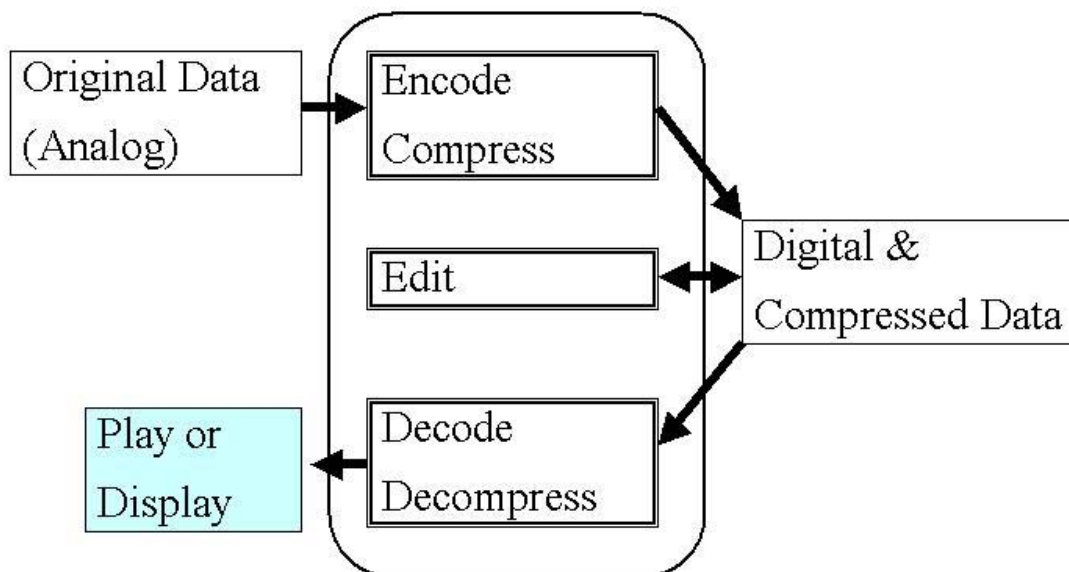
1. Type of multimedia data
2. Feature of multimedia data
3. Types of animation





Compress & Decompress



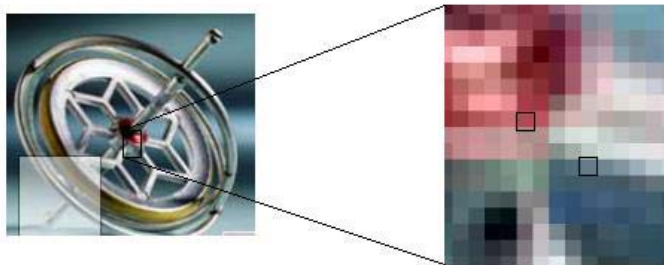
The function of the multimedia software



Type of multimedia data

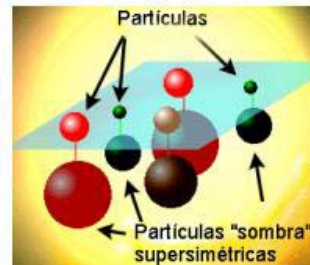
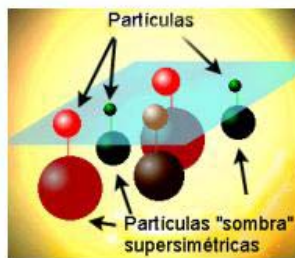
Type	Multimedia format	file	RorC
Picture, graphic	Windows Bit Map	.bmp	Raw
	Gif	.gif	
	Jpeg	.jpeg or .jpg	
Movie	Meg movie	.mpeg or .mpg	
	Avi movie	.avi	
	Real player	.rm or ra	
	Quick time movie	.mov or .qt	
Voice Music	mpeg3 	.mp3	
	Windows wave	.wav	
	Midi 	.mid or .midi	

How does computer display



Screen(display) consist of many dot.
Same as Printer.

Color depth (how many color can it contain?)



Quality and size (Compress & Decompress)

MPEG (1Hour/ 1CD 650MB)

Low compress

Quality and size (Compress & Decompress)

Download or transmit

Example. MPEG file :Low compress(1 min / 10MB)

line	speed	time
Telephone	28.8K/bps = 3.6KB	46min
Telephone	58K/bps = 8KB	20min
ADSL	128K/bps = 16KB	10min 25sec
ADSL	800K/bps = 100KB	100sec
LAN	5M/5000Kbps = 0.6MB	16sec

Type of Picture and graphic data

Multimedia format	Characteristics	Color
Windows Bit Map	Non-compress Develop	16-256
Gif	Compress Web,(digital material) Small Simple picture, graphic	256
Jpeg	Compress(variable) Web, digital material Small- Complex picture,graphic	Full

Type of movie data

Multimedia format	Characteristics
Meg movie	Hi quality, Hi compress(variable) Movie, streaming
Avi movie	compress (variable) Easy to develop
Real player	Hi quality, Hi compress (variable) streaming
Quick time movie	compress (variable) Movie

Type of voice & music data

Multimedia format	Characteristics
mpeg3	Hi quality, Hi compress Music, Voice
Windows wave	Compress Easy to develop
Midi	Music synthesizer Data Very small date Instrument

Types of animation

1. Simple animation (Gif animation)

Some sheets of pictures are repeated

2. Animation tools

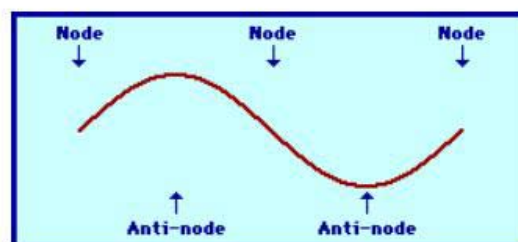
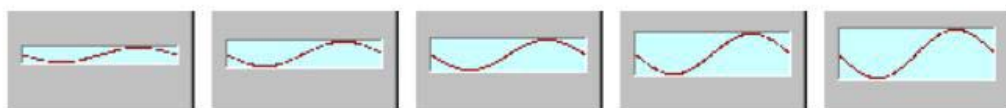
Flash5, other tools

3. Computer graphic software

3D/2D animation tool -> record movie file

4. programming

1. Simple animation (Gif animation)



3. Computer graphic software 3D graphic tool

