
Chapter 06: Video

Part 1: Key-term Quiz

1. A redundant hard-disk system that will support high-speed data transfer rates is called a _____.
2. The television signal format used in the United States, Japan, and many other countries is known as _____.
3. Television screens use a process of building a single frame from two fields to help prevent flicker on CRTs in a technique called _____.
4. When creating graphics for conversion to video, do not place any critical information such as text in the outside 15 percent of the image. Instead, keep it within the _____ (three words).
5. High-Definition Television (HDTV) is displayed in a(n) _____ aspect ratio.
6. The television signal format used in France, Russia, and a few other countries is known as _____.
7. The digital video and audio compression schemes that compress a video for delivery and then decode it during playback are called _____.
8. When reformatting a 4:3 aspect ratio video to fit in the center of a HDTV screen, leaving the sides empty, the effect is called _____.
9. The video compression/decompression scheme used in an Ogg container is called _____.
10. MPEG is an acronym for _____.

Part 2: Multiple-Choice Quiz

1. In a video camera, the sensor that picks up light is called a CCD. CCD stands for:
 - a. color-coding data
 - b. custom color descriptor
 - c. chroma-calculation daemon
 - d. charge-coupled device
 - e. carbon crystal digitizer
2. A computer's output on a CRT is calibrated to display an image:
 - a. smaller than the actual monitor's capability
 - b. larger than the actual monitor's capability
 - c. exactly the same size as the actual monitor's capability
 - d. that adjusts automatically to the monitor's capability
 - e. of a fixed size; whether it is larger or smaller than the monitor's capability depends on the monitor
3. Removing a residual magnetic field that distorts the colors on a television screen is called:
 - a. tracking
 - b. dubbing
 - c. streaming
 - d. flattening

- e. degaussing
- 4. A video signal transmitted with all the signals mixed together and carried on a single cable is called:
 - a. RGB video
 - b. composite video
 - c. component video
 - d. multiformat video
 - e. chroma-key video
- 5. Which of the following is not a television signal format?
 - a. MPEG
 - b. NTSC
 - c. PAL
 - d. SECAM
 - e. HDTV
- 6. Computer displays draw the lines of an entire frame in a single pass; this technique is called:
 - a. streaming
 - b. progressive-scan
 - c. packing
 - d. flattening
 - e. overscan
- 7. The video technique that allows you to choose a color or range of colors that become transparent, allowing the video image to be visible behind those colors in the overlying image, is known by all of the following except:
 - a. blue screen
 - b. Ultimatte
 - c. chroma key
 - d. interlacing
 - e. green screen
- 8. Which of the following is a multimedia container format?
 - a. JPEG
 - b. DVD-RW
 - c. ComponentY
 - d. Hi-8
 - e. Ogg
- 9. Red or green should be avoided as cue colors because:
 - a. they represent negative ideas in some cultures
 - b. they do not blend well with other colors
 - c. color-blind individuals cannot see them correctly
 - d. they are associated with “stop” and “go”
 - e. they remind people of Christmas
- 10. Which of the following is not a good idea when creating titles (text) to be used in video?
 - a. Fonts for titles should be plain, sans serif, and bold enough to be easily read.
 - b. When you are laying text onto a dark background, use white or a light color for the text.

- c. Do not kern your letters too tightly.
 - d. If you use underlining or drawn graphics, make sure your lines are only one pixel wide.
 - e. Use a drop shadow to help separate the text from the background.
11. Which of the following is not a typical studio light?
- a. rim light
 - b. fill light
 - c. key light
 - d. background light
 - e. focal light
12. Which of the following is not a codec?
- a. H.264
 - b. Theora
 - c. NTSC
 - d. VP6
 - e. VP8
13. Generation loss occurs when:
- a. an analog tape is copied to another analog tape
 - b. a digital file is copied to another hard disk
 - c. a digital file is copied to another hard drive
 - d. a digital file is compressed with a lossy codec
 - e. your teenage son gets his tongue pierced
14. MPEG stands for:
- a. Multiformat Processed-Event Graphics
 - b. Multi-Phase Element Grid
 - c. Meta-Program Environment Graph
 - d. Moving Picture Experts Group
 - e. Micro-Phase Electronic Guidance
15. Which of the following HTML5 tags is used in the display of multimedia video?
- a. <LOAD>
 - b. <ANIMATE>
 - c. FORWARD>
 - d. <PLAY>
 - e. None of the above

Part 3: Practice Exercises

3.1 Locate three web sites that include video clips. What format are they served in? Examine the HTML source code to discover what method of video delivery is used. Make a note of your findings. Some clips are available in a streaming format and are not easily downloadable. Others can be downloaded. Download the clips you can and open them in QuickTime or Windows Media Player. List the codecs that were used to compress the clips.

3.2 Discuss several considerations in shooting and editing video for multimedia. What techniques would you use to produce the best possible video, at a reasonable cost? Which of these techniques apply to all video, and which apply specifically to multimedia?

3.3 Define codec and list an example of a codec.