GIF Animation Job Interview Questions And Answers

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GIF Animation Interview Questions And Answers Guide.

Question - 1:

What is Simulation?

Ans:

- An imitation from real is known as simulation.
- The participating systems may be abstract or physical.
- A specific modeling can well be supported by simulation.
- By simulation, acquiring and getting information is simple and quick.

View All Answers

Question - 2:

Do you know some compression technique used by GIF image format?

Ans:

GIF images use the following compression techniques:
- Lossless Compression: Statistical redundancy is exploited for representing data in more concise manner.
- Real-world data consists of statistical redundancy.
- Lampel-Ziv Compression: One of the most popular algorithms.
- Compression process is slow.
- It implements table-based compression, in which the table entries are substituted to repeat the strings of data.
- The table is encoded using Huffman encoding.

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Question - 3:

What is an animation?

Ans:

- Animation is referred to rapid display of a set of 2D images in a sequence.
- It creates an illusion of movement of objects / displays.
- Most common animation method is a motion picture.
- Full animation is referred to producing high quality motion pictures.
- Limited animation involves less stylized drawings and methods.

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Question - 4:

Explain what is Ambient occlusion?

Ans:

- Ambient Occlusion is related to bright the light to shine on specific surfaces.
- AO is based on the environment of the surface.
- The calculation is done by casting rays in each and every direction from the surface.
- The brightness is increased on the surface by focusing the rays from the background.
- Points with little geometry will appear light on the visible hemisphere.

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Question - 5:

Tell me about Beneton Movie GIF that creates animated images?

Ans:

- Beneton Movie GIF allows to create GIF images for greeting cards.
- BM GIF animation maker is full featured software that is simple to use and create GIF images.
- Any image file can be taken as an input file and can be converted to 48 animated file formats.
- Among all, GIF format file creation is well suited for presentations.

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Question - 6:

Tell me what is Graphic Interchange Format?

Ans:

- GIF is a format of bitmap image.
- It supports maximum of 8 BPP.
- It allows a single image to be referenced as a palette.
- Each palette has up to 256 colors to choose from.
- The RGB color space is about 24 bits.

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Question - 7:

Can you explain how to optimize an animated GIF?

Ans:

- Using fewer colors allows reducing the file size.
- Limiting colors and using similar colors from frame to frame.
- To decrease the file size, one more method is to cut down the pixel dimensions.
- The number of frames should be the exact number for the specified animation.
- Identify the file reduction feature in the software that creates GIF image files.
- Implement dithering. Dithering reduces the banding. The image appears smoother by eliminating colors.

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Question - 8:

Please compare PNG and GIF?

Ans:

GIF Format:
- LZW compression standards are used in GIF images.
- Traces the colors of the image and reduces the size of the file.
- Best suited for simple animated graphics on the web.
PNG Format:
- PNG(Portable Network Graphics) is a graphic file format for lossless compression.
- It is suitable for raster images storage.
- Indexed-color, grayscale and true color images are supported in PNG format.
- Supports cross platform image brightness and color correction.

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Question - 9:

Please differentiate between Animation and Video?

Ans:

Animation:
- Animation involves drawing of sketches of objects.
- These objects are placed in various frames, so that it illustrates as if the objects are moving.
- Animation is created by drawing series of illustrations in different angles.
- Animation creation is difficult compared to creating a video.
Videos:
- Videos are made by using video cameras.
- The real movements of objects are captured by shooting the videos.
- Manual intervention is not necessary to shoot.

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Question - 10:

Explain what is Persistence of Vision?

Ans:

- A phenomenon of the eye.
- By this an after image is persisted approximately 1/20th of a second on the retina.
- Human perception of motion is the end result of vision persistency.
- Visual form of memory that is referred as Iconic Memory is the cause of Persistence of Vision.
- The persistence of vision has two distinct illusions - 1. Phi Phenomenon and 2. Beta Movement.

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Question - 11:

Do you know how to animate a text fade in and out?

Ans:

- Animation of text fade is done with fireworks.
- The changed opacity is from 0% to 100% over a set of frames.
- Later the animation is reversed with another text object with opacity from 100% to 0%

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Question - 12:

Explain what is the reason to use MGF file to convert imported images into bitmaps?

Ans:
- MGF file format retains all information about objects in the animation.
- GIF contains only fixed images, and hence it is less flexible.
- Place all editable files in a MGF file, before creating GIF files.

View All Answers

Question - 13:

Tell me what is the file structure of GIF?

Ans:
- GIF file has fixed size graphical area.
- It contains one or more images.
- Every image can be animated by placing them in animation frames.
- Every part of GIF file is a frame.
- All such frames make the complete graphical area or logical screen.
- Every file starts with a fixed length header.
- Every logical area consists of an image, the extension block and the trailer that is referred as the last byte of the file.

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Question - 14:

Do you know what are the alternatives to GIF?

Ans:
PNG and MNG are the alternatives for GIF.
PNG:
- GIF images are limited to 256 colors.
- PNG format supports palette-based images, Gray Scale images.
- PNG also supports full color non palette based RGB images.
- PNG format is suitable for transferring images on internet.
- PNG is not for professional-quality print graphics.
MNG:
- MNG is closed to PNG format.
- Better compression standard than GIF
- Integration of PNG and JPEG based images.
- Supports transparent JPEG images.

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Question - 15:

What is interlacing?

Ans:
- Displaying of a single frame of video into two frames.
- Each frame is split into alternating lines.
- The first frame displays odd numbered lines, and the second frame displays even numbered lines.
- The resolution per frame is 480 horizontal lines.
- The number of frames displays per second would be 30.

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Question - 16:

Explain XAML?

Ans:
- XAML stands for eXtensible Application Markup Language.
- XAML is known as a declarative markup language.
- XAML simplifies UI creation for .NET Framework applications.
- Has flexibility to create UI elements in XAML and separate the UI definitions from runtime logic.
- Code behind files support separating UI definitions from runtime logic.
- XAML work flow includes separate elements to work on UI design, business logic by using different potential tools.
- XAML can be represented as text files in as XML files and XML encoding is applied to it by using UTF-8 standard.

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Question - 17:

Explain what is Logical Screen Descriptor?

Ans:
- It is always a second block in GIF file.
- An area of pixels usually referred as screen, is defined by LSD.
- GIF file size is defined by this area.
- When the logical screen is larger than the image, some space is displayed around the image.
- As per the size of the images, the logical screen size need to be set based on the width and height of the images.

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Question - 18:

Do you know what are the benefits & limitations of GIF89a animations?

Ans:
- Transparency, Compression , Interlacing, various colors palettes are applied
- No plug-ins or supported software required.
- No web server or server side includes or PERL scripting is needed.
- Provides reusable and repeatable animations.
- No need to download the animation constantly by modem, as the whole animation is loaded only once.
- The size of animated images is compact.

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Question - 19:
Tell me about the Logical Screen Descriptor of GIF files?

Ans:
Logical Screen Descriptor has the following information.
- Logical Screen Width: The width of the image that represents in pixels
- Logical Screen Height: The image height in pixels.
- Packed Field: The element of the image for animation.
- Background Color Index: A value that is pointing to a color in the Global Color Table.
- Pixel Aspect Ratio: The approximate aspect ratio of the pixel in the GIF image

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Question - 20:
Explain what is the purpose of Global Color Table?

Ans:
- Colored table is represented by a sequence of bytes that represents Red, Green and Blue color triplets.
- Global Color Table is used for images with plain text extensions.
- Every global color table's presence is marked by the Global Color Table Flag.
- The GCT Flag is set to 1 in Logical Screen Descriptor.
- The block contains the number of byes equal to 3 x 2 size of global color table + 1
- One Global Color Table is present per Data Stream.

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Question - 21:
Tell me what are known as Image Blocks?

Ans:
- Image block is the actual image.
- The size of the image can be of any size.
- The palette of the image can be of any size.
- Other information includes:
1. Size of the picture in pixels.
2. Position of the image on Logical Screen
3. Local palette for the image.
- The size of the image cannot be modified.
- Changing the image size cases data corruption.

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Question - 22:
GIF Animation Multimedia Job Interview Questions Part Nine!

Ans:
What is full form of GIF? Name the organization behind its development.
What kind of image container is GIF? How is it different from other image containers?
What is an animation?
How many bits do a GIF image uses to store a pixel value?
Is GIF a good format for storing real life photographs?
Name the compression technique used by GIF image format. Is it lossless or lossy data compression?
What is the basic principle involved in gif animations?
Compare PNG with GIF.
Name few of the tools that can be used to create animated gif images.
How to optimize an animated gif?

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Question - 23:
GIF Animation Multimedia Job Interview Questions Part Eight!

Ans:
What do you mean by Rigging? Is it possible to achieve rigging using gifs?
How to animate a text by fading it in & out?
What do you mean by ambient occlusion?
How to make an animated gif image's background transparent?
What is e-GIF? How it is different from GIF?
What you understand by alternative GIFs?

What is XAML?
Explain file structure of GIF images.
Pour some light over Byte Ordering in Gif Images.
What is the purpose of Global Color Table?

View All Answers

Question - 24:

GIF Animation Multimedia Job Interview Questions Part Seven!

Ans:

What do you understand by animation?
Is there any difference between an animation & a video? Explain.
Give few examples of animation hardware & software.
What do you understand by a media authoring tool? Name few authoring tools for animations.
What is a twining animation?
What is rigging?
What is the number of the frames that must be shown per second to a human to cause an optical illusion of motion?
What do you understand by phenomenon of persistence of vision?
What is a motion picture? How is it different from animations?
Name few of the techniques used in the animation.

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Question - 25:

GIF Animation Multimedia Job Interview Questions Part Six!

Ans:

What do you understand by Interlacing?
What is a Logical Screen Descriptor?
What are block types & terminators?
How graphic color extension affects the next image in a gif file?
Explain LZW data compression. Name other compression technique that was earlier part of gif standard.
Is it possible to store a gif image in database? Which data type would be suitable to store it?
Write a simple html snippet to include a gif file in to the webpage.
Suppose you are given with two 100KB files, one of them is a jpg image & other one is a still gif image. Out of the two which one will have better quality? Justify your answer.
Is it possible that an animated gif also have sound?
Pour some light over market condition of GIF image standard. Is it still used widely over the internet?

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Question - 26:

GIF Animation Multimedia Job Interview Questions Part Five!

Ans:

What is traditional animation? How in traditional animations sequence of the images is created?
What do you know about Rotoscoping?
Have you ever happened to come across Puppet Animation? What is it?
What is Stop Motion?
What do you mean by the plasticine animation?
What is the meaning of pixilation?
What is computer animation? Give pros & cons of computer animation.
What is the difference between traditional & computer animations?
Name few Hollywood movies that have used photo realistic animations.
Explain paint-on-glass technique of animation.

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Question - 27:

GIF Animation Multimedia Job Interview Questions Part Four!

Ans:

What is sand animation?
Name few of the animation tools that you have used.
Give minimum system requirement that a rich & modern animation would require.
How many ways there are to include an animation into a webpage?
How will you make a gif animation?
Is it possible to publish gif animations from adobe's flash?
Why gif animations do looks so grainy?
How does a 3D movie works?
What is an Easter egg?
What is difference between raster & vector animations? Which one is better?

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Question - 28:

GIF Animation Multimedia Job Interview Questions Part Three!

Ans:

What is FLV? For what purposes it is used?

What does SWF stand for? How is it different from FLV?
Out of FLV & SWF which one will you prefer to use when publishing an animation?
How many frames there are in one second of animation?
What are Flash Exploits? How can they harm your computer?
What is the difference between flash player & flash projector?
Name a program that can produce both 2D & 3D animations.
What is ActionScript?
What do you understand by shading?
What is ambient occlusion map?

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Question - 29:

GIF Animation Multimedia Job Interview Questions Part Two!

Ans:

What is the meaning of Texturing?
How can lighting improve whole look & feel of an animation?
When you should use Flash scenes instead Keyframes?
What is rendering in context of computer animation?
Is it necessary to draw background of the animation every time?
What do you understand by Image Morphing?
Is it possible to render 3D animations as 2D animations? If yes then how?
Compare animation with animatronics.
What do you understand by Squash & stretch in context of computer animation?
What is the clay motion? Why it is so jerky?

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Question - 30:

GIF Animation Multimedia Job Interview Questions Part One!

Ans:

How are 3D snow & rain modeled in computer animations?
Are clothing & hair on 3D models created individually?
Have you ever heard technique called 2.5D animation? What is it?
How animators sync their music with their animation?
What are the standard units of measurement you use while doing animations?
What is a wireframe animation? What is its significance?
What is attraction in animation?
What do you understand by CAD tools? For what purposes they are used?
What is difference between autoCAD & other 3D programs?
If an architect want to make a model of a building which tool he prefer to use?
What is Adobe's Dreamworks? How is it different from Dreaweaver?

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