

Angel A. Sanquiche Sanchez

801-13-7075

CCOM4995-023

Part 0 Questions

Q1

GUI event handling follows the Listener pattern

An event source generates a stream of discrete events

Listeners register interest in events from the source

Can subscribe only to specific events

mouseDown,

mouseUp,

mouseDrag,

mouseMove,

mouseClick,

keyDown,

keyUp,

keyPress...

Can unsubscribe when no longer needed

When an event occur, the event source distributes it to all registered listeners

Triggers listener callback function

Q2

Immediate mode

Immediate mode rendering of geometric primitives

Produces raster images

Fixed resolution

Retained mode

Declare and store primitives

Not limited in resolution (pure geometry)

Q3

16 million colors is  $2^{24}$  colors or all the colors that a standard 3 channel 8 bit image can store.

Which means it can reproduce any image that uses that form of representation. But given that some images some scientific visualizations are outside of the color spectrum or simply have values that exceed the 8 bits per channel format this screen would be lacking in particular visualization areas