

Class Name	Function	Parameter	Description
Sever	main(self)	self	Main function to run the whole program.
SeverWorker	__init__(self, clientInfo)	self, clientInfo	Constructor
	run(self)	self	Run the server
	processRtspRequest(self, data)	self, data	Process the Rtsp request
	sendRtp(self)	self	Send RTP packets over UDP
	makeRtp(self, payload, frameNbr)	self, payload, frameNbr	RPT-packetize the video data
	replyRtsp(sefl, code, seq)	self, code, seq	Send RTSP reply to the Client
Client	__init__(self, master, serveraddr, serverport, rtpport, filename)	self, master, serveraddr, serverport, rtpport, filename	Constructor
	createWidgets(self)	self	Build GUI
	setupMovie(self)	self	Setup button handler
	exitClient(self)	self	Teardown button handler
	pauseMovie(self)	self	Pause button handler
	playMovie(self)	self	Play button handler
	take_time(self,bufftime)	self,bufftime	change time to format minutes : seconds
	listenRtp(self)	self	Listen for RTP packets and analysis somethings
	writeFrame(self, data)	self, data	Write the received frame to a temp image file
	updateMovie(self, imageFile)	self, imageFile	Update the image file as video frame in the GUI
	connectToServer(self)	self	Connect to the Server. Start a new RTSP/TCP session
	sendRtspRequest(self, requestCode)	self, requestCode	Send RTSP request to the server
	recvRtspReply(self)	self	Receive RTSP reply from the server
	parseRtspReply(self, data)	self, data	Parse the RTSP reply from the server
	openRtpPort(self)	self	Open RTP socket binded to a specified port
	handler(self)	self	Handler on explicitly closing the GUI window
RtpPacket	__init__(self)	self	constructor
	encode(self, version, padding, extension, cc, seqnum, marker, pt, ssrc, payload)	self, version, padding, extension, cc, seqnum, marker, pt, ssrc, payload	Encode the RTP packet with header fields and payload
	decode(self, byteStream)	self, byteStream	Decode the RTP packet
	version(self)	self	Return RTP version
	seqNum(self)	self	Return sequence (frame) number
	timestamp(self)	self	Return timestamp
	payloadType(self)	self	Return payload type
	getPayload(self)	self	Return payload
	getPacket(self)	self	Return RTP packet
VideoStream	__init__(self, filename)	self, filename	Constructor
	nextFrame(self)	self	Get next frame
	frameNbr(self)	self	Get frame number