

Raymond Sun  
Henry Xiang hwx1

The `MessageHandler` class encapsulates the incoming and outgoing behavior of the connection socket. It can be passed messages to send to remote peers, and waited on for incoming messages. `MessageHandler` will automatically process incoming messages into a `ByteBuffer` of the appropriate length with the message ID as the leading byte.

The `BTData` class allows data about the `RUBTClient` to be serialized, such as amount uploaded and amount downloaded.

`TrackerMessage` decodes the tracker data from the `.torrent` file.

`Peer` simply holds information about the peers such as IP, port, and generated ID.

The program spawns a thread for listening to a `ServerSocket` to establish connections, as well as a thread for establishing handshakes. It then goes through the list of peers in the tracker and attempts to connect to valid peers. The program then goes through the regular BitTorrent protocol exchange. If the user ends the program, all the pieces currently downloaded will be saved to an incomplete file, and download will resume upon startup the following attempt.