

Java, TCP, & UDP

- Java's implementation of UDP is split into two classes: **DatagramPacket** and **DatagramSocket**.
- **DatagramPacket** stuffs bytes of data into UDP packets called datagrams and lets you unstuff datagrams you receive.
- A **DatagramSocket** sends as well as receives UDP datagrams.

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- To send data, you put the data in a **DatagramPacket** and send the packet using a **DatagramSocket**.
- To receive data, you receive a **DatagramPacket** object from a **DatagramSocket** and then read the contents of the packet.

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- This simple division of labor contrasts with the **Socket** and **ServerSocket** classes used by TCP.
 - UDP does not have any notion of a server socket.
 - TCP sockets allow you to treat a network connection as a stream. UDP doesn't allow this; you always work with packets.
 - A single **DatagramSocket** can send to and receive from many hosts. The socket isn't dedicated to a single connection as it is in TCP.