

Programming UDP

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Creating a Socket

- Use the same `socket` function as with TCP
 - ```
if ((socket_handle =
 socket(PF_INET, SOCK_DGRAM, 0)) == -1) {
 perror("Unable to create socket");
 return error_code;
}
```
- The combination `PF_INET` and `SOCK_DGRAM` means UDP.





# Prepare a Buffer

- You must format the datagram yourself.
  - `char buffer[512];`
    - Put any data you want into the buffer.
- *Size of the datagram is an application issue.*
  - Should not be too large (IP protocol has limits!)
  - Note that packet structure is now exposed to the application. This is different than with TCP.
    - UDP is not a streaming protocol. Application must manage the datagrams.
    - This is an important distinction between stream and datagram protocols in general.















