

## Lecture demos: http/web browser/HW4

- Run `nc -l 3333` and send a request to it from a web browser to see what the browser info looks like. Try different things following the server name/port like `/send/me/stuff` or `/index.html`.
- Use different user agent settings in Safari to see how `amazon.com` reformats the display for different devices. Use `nc -l 3333` to look at request packet.
- Use `nc` to connect to `example.com` or `google.com` (port 80)

```
nc -C example.com 80
GET / HTTP/1.1\r\n
Host: example.com\r\n
Connection: close\r\n
\r\n
```

- (most sites are now using `https`, which makes it harder to find sites that will work successfully with this demo)
  - `-C` option uses correct newlines. Alas, not portable, need to use `-c` (lower case) on a mac, except that recent versions seem to handle `-C` properly.
- Run `hw4` server on `attu`, connect from web browser(s). Show basic operation, show that it can handle multiple requests simultaneously (e.g., threads – section topic for Thur.). Run standalone on VM. Show how to shut down sending `http://attu4.cs.washington.edu:5555/quitquitquit` (old version was use `kill` from another terminal window on same machine)
- Use “show source” in Chrome (Firefox on VM) to show html received from `hw4` server.
- Use `nc` to connect to the `hw4` server and look at the raw data from it.