

This is CS50.

**72%**

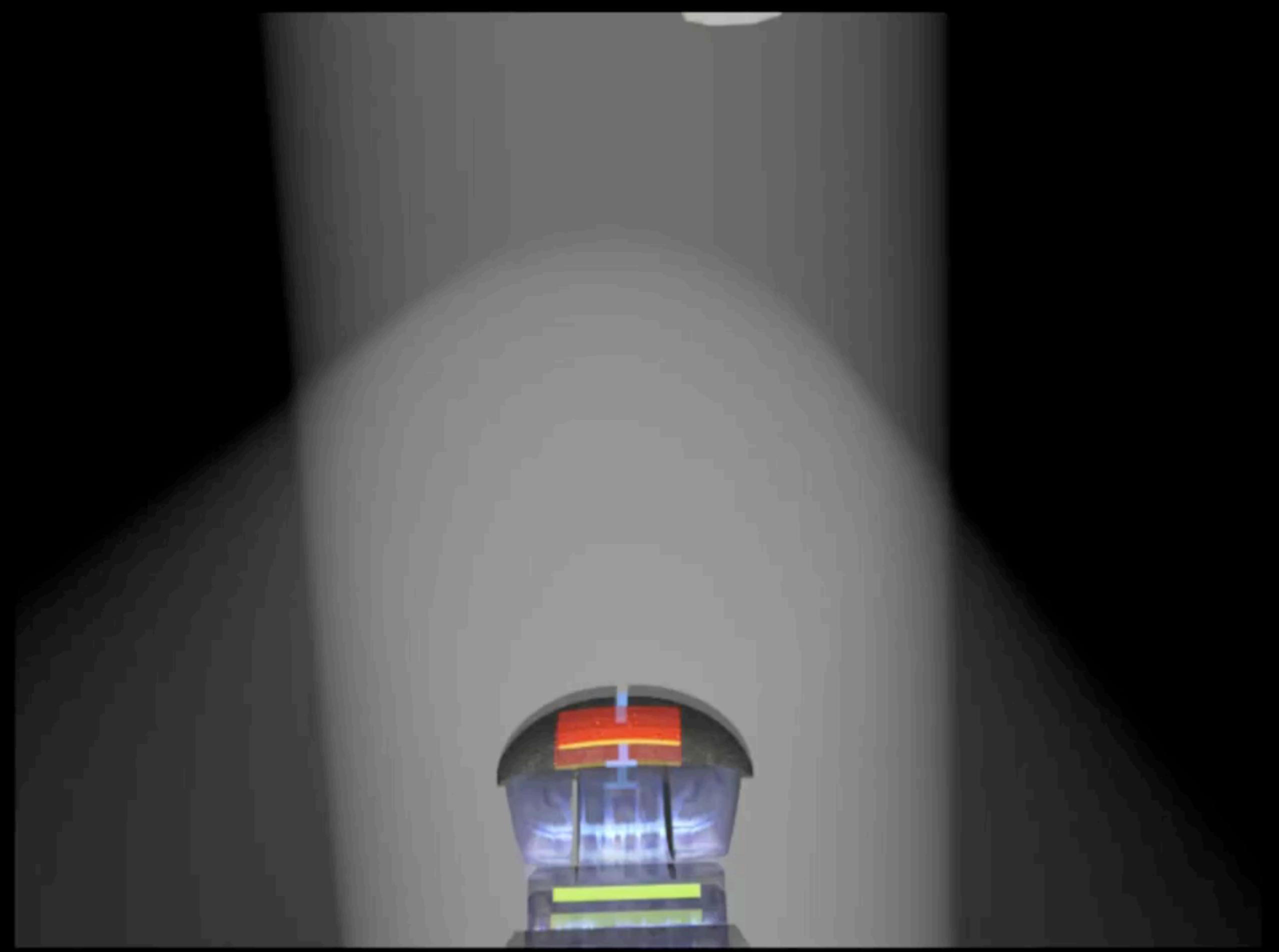
of CS50 students  
have never taken CS before

what ultimately matters in this course is not so much where you end up relative to your classmates but where you, in **Week 12**, end up relative to yourself in **Week 0**



1            2            3            4            5  
poor        fair        good        better      best

This is CS50.



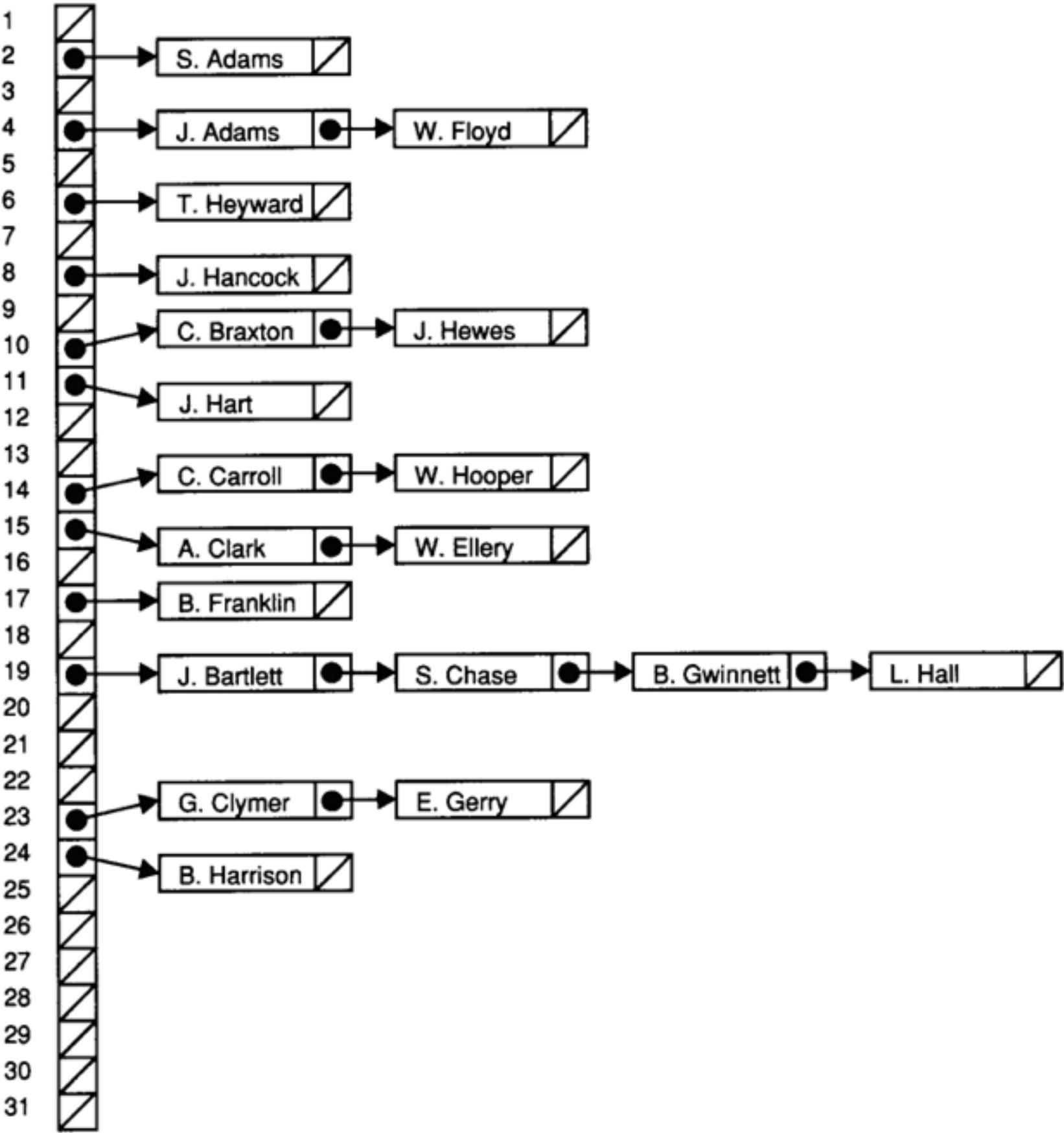
This is CS50.



MEN

HARVARD ROOM

STANDARD ROOM



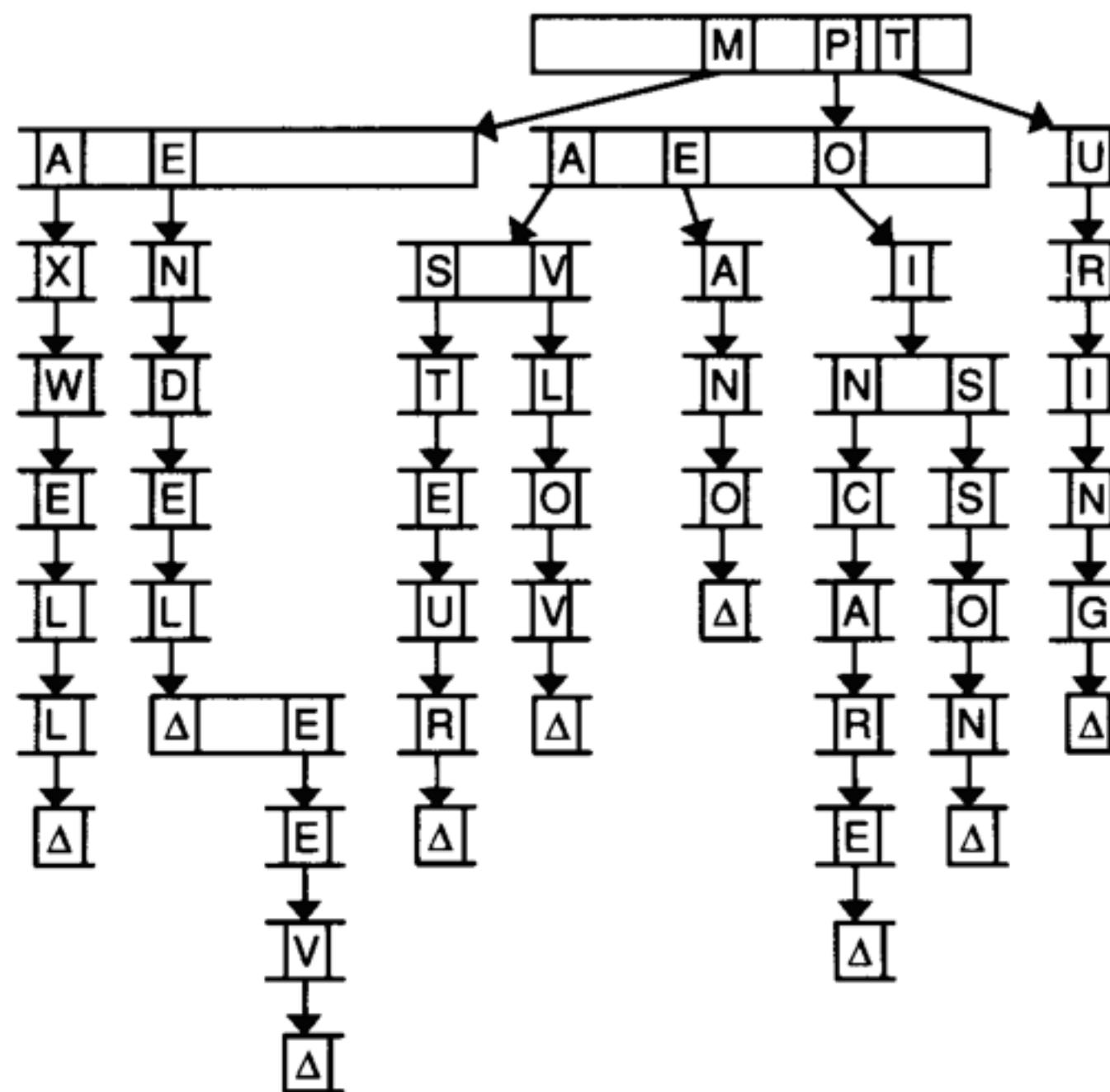


Figure from Lewis and Denenberg's Data Structures & Their Algorithms.



SHA1

# The SHAppening

[sites.google.com/site/itstheshappening](http://sites.google.com/site/itstheshappening)

problem set 5

quiz 0

# office hours

tonight, tomorrow night

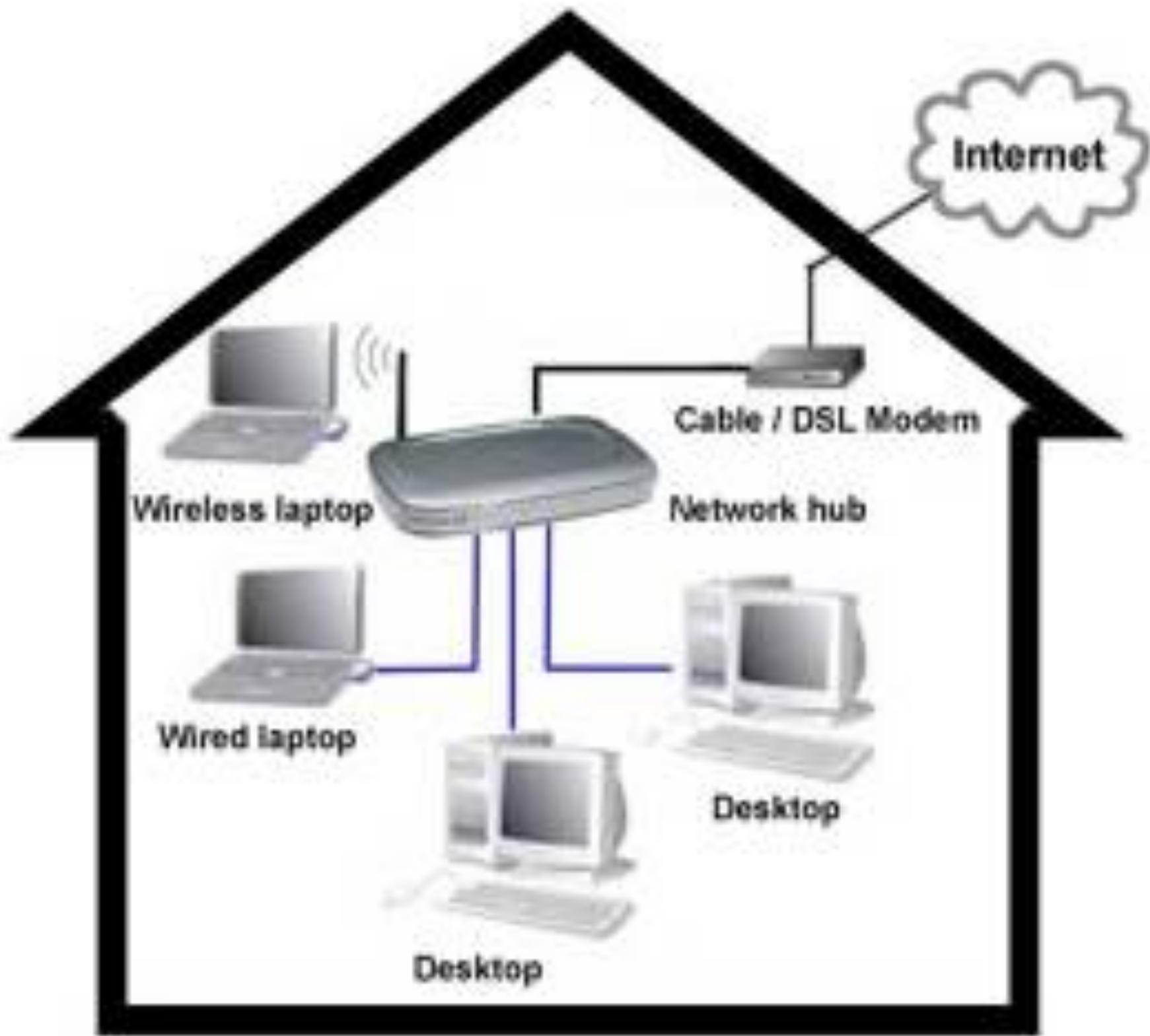
# office hours

here, after lecture









# DHCP

IP

# IP address

#.#.#.#

# Yale IPs

130.132.#.#

128.36.#.#

...

# Harvard IPs

140.247.#.#

128.103.#.#

...

# private IPs

10.###.#

172.16.### – 172.31.###

192.168.###



```
> switchview = [[UISwitch alloc] initWithFrame:  
> [switchview setTag:997];  
> [cell addSubview:switchview];  
> [switchview release];  
>  
> // recover switchview from the cell  
> switchview = [cell viewWithTag:997];  
> [switchview addTarget:self action:@selector(  
> // Set up the cell  
> NSArray *crayon + [[[section obejectAtIndex:  
> [cell setText:[objecgtAtIndex:0]]];  
>  
> // extract the component  
> float xx = - [acceleration xGlobal];  
> float yy = - [acceleration yGlobal];  
>
```

```
> switchview = [[UISwitch alloc] initWithFrame:  
> [switchview setTag:997];  
> [cell addSubview:switchview];  
> [switchview release];  
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>  
> // extract the component  
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> float
```

t View Go Window Help



http://275.3.6.28

Global  
HO >

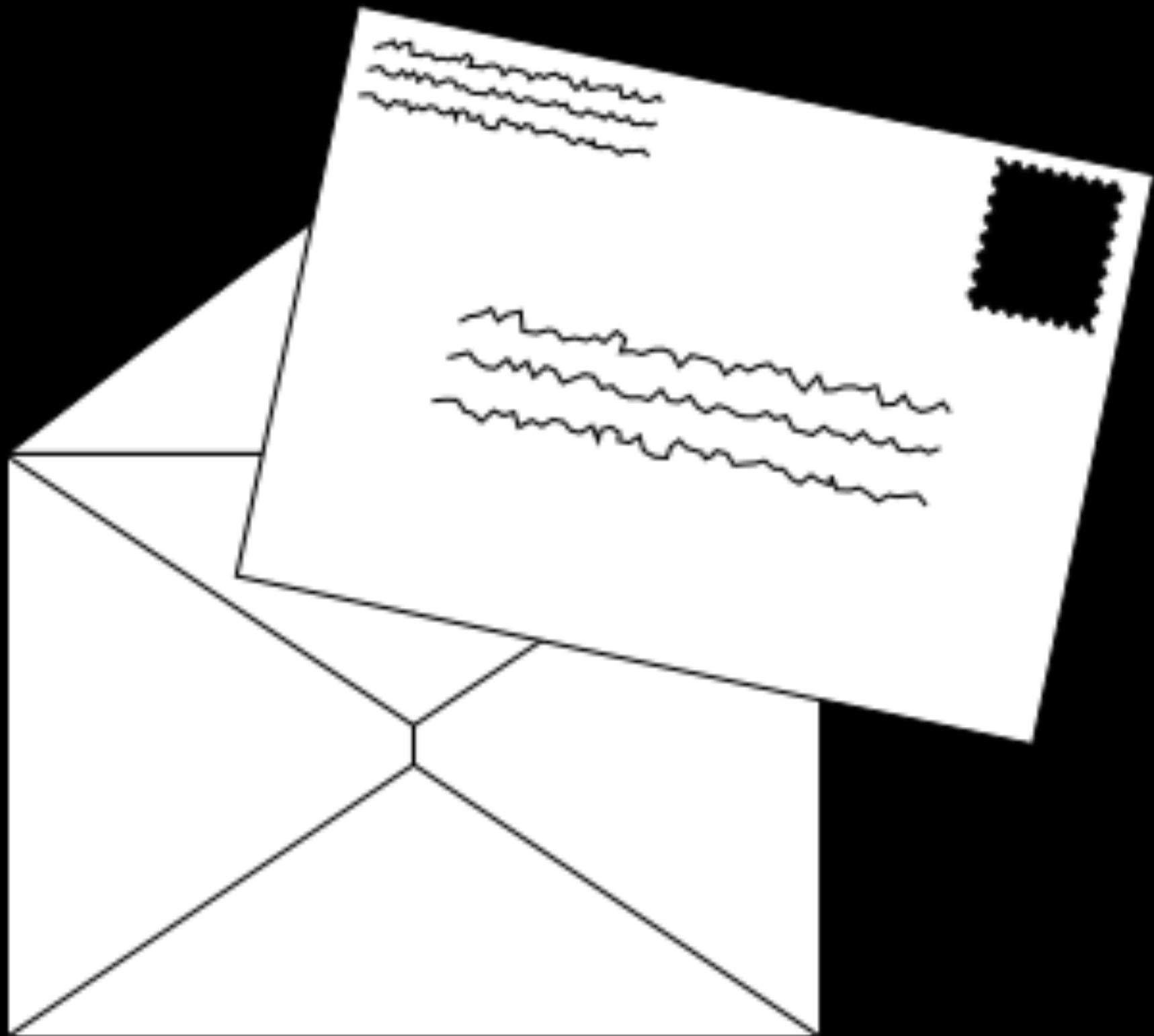
# DNS

routers





packets



# TCP

# ports

21 FTP

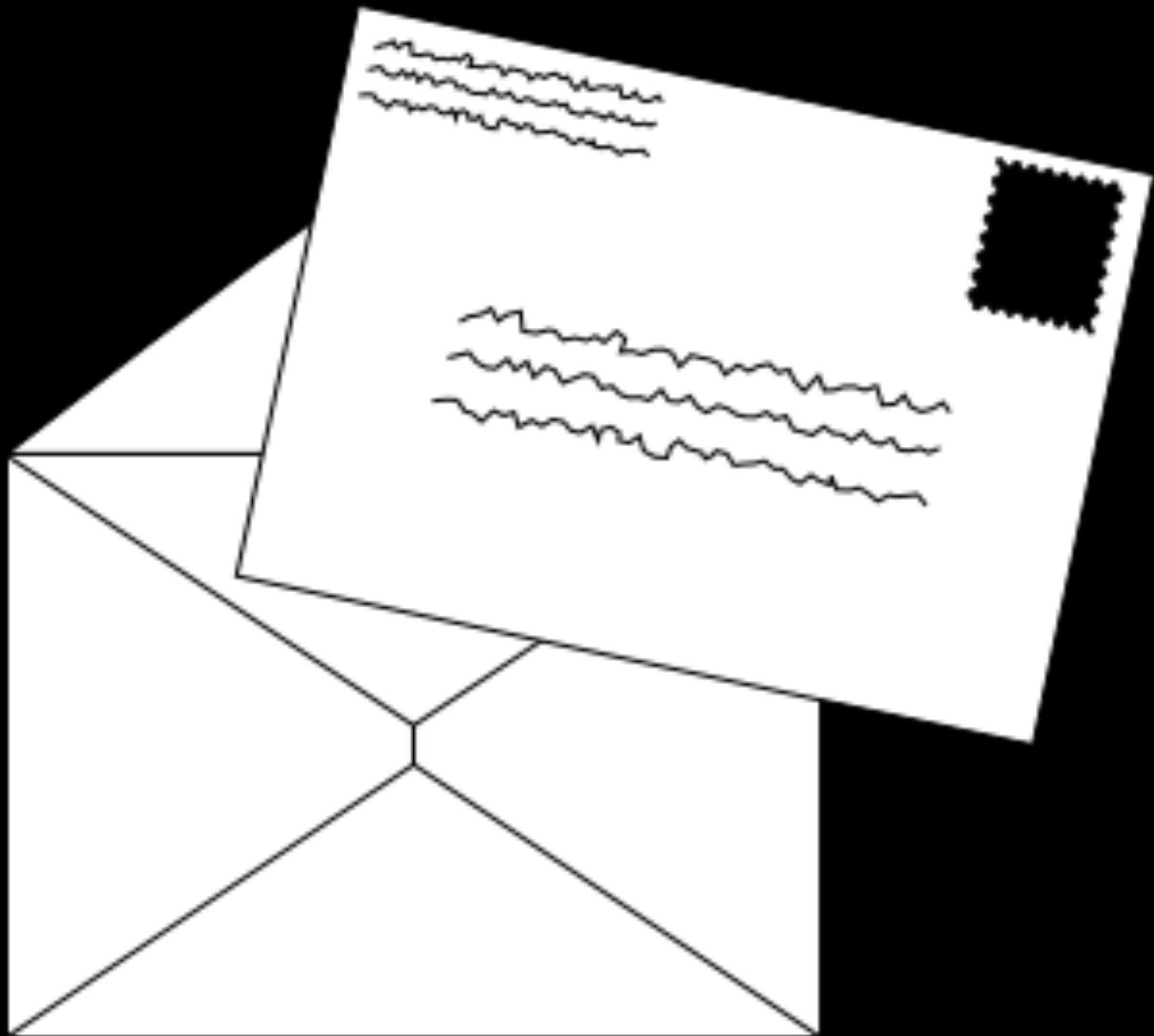
25 SMTP

53 DNS

80 HTTP

443 HTTPS

...



firewall

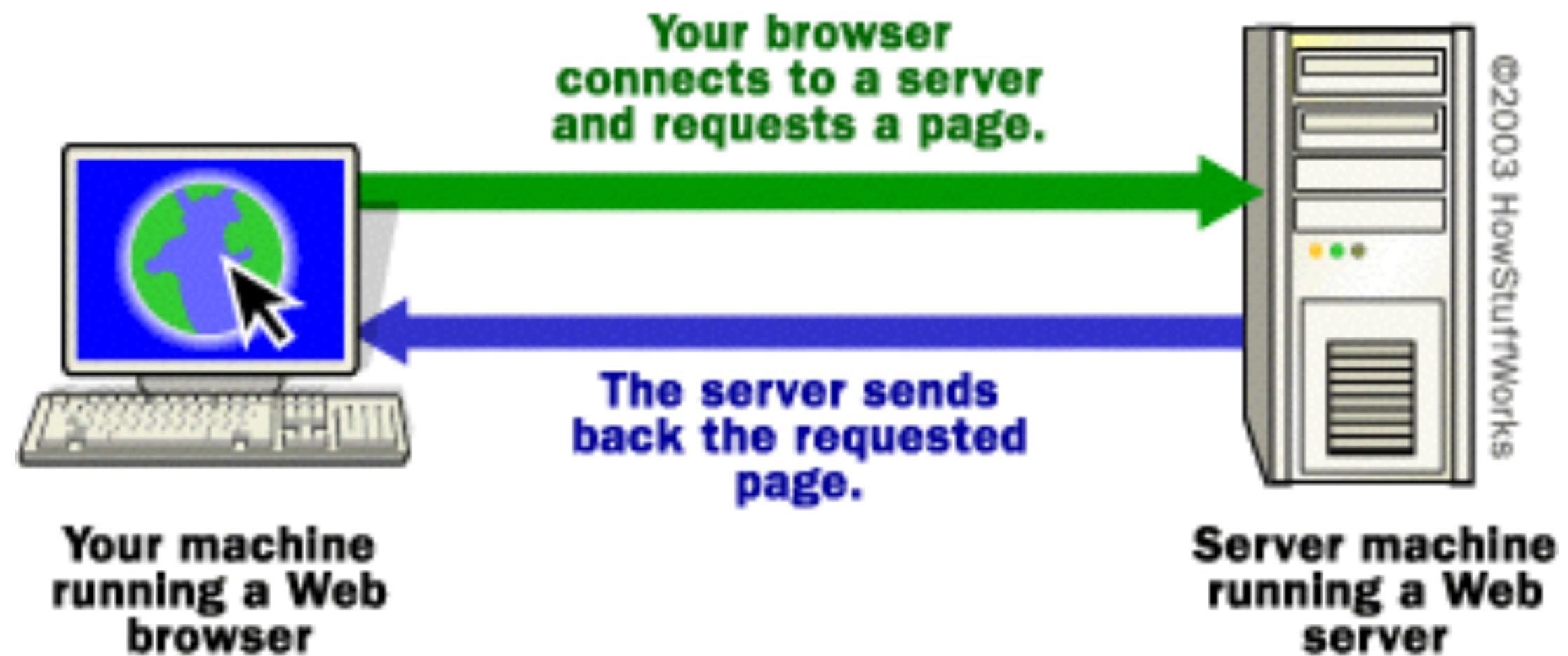
# VPN

[access.yale.edu](http://access.yale.edu)

# VPN

[vpn.harvard.edu](http://vpn.harvard.edu)

HTTP



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GET

# request

```
GET / HTTP/1.1  
Host: www.google.com
```

...

# response

HTTP/1.1 200 OK  
Content-Type: text/html

...

# status codes

200 OK

301 Moved Permanently

302 Found

401 Unauthorized

403 Forbidden

404 Not Found

500 Internal Server Error

...

# query strings

```
GET /search?q=cats HTTP/1.1  
Host: www.google.com
```

...

POST

# request

POST /login.php HTTP/1.1

Host: www.facebook.com

...

email=malan@harvard.edu&password=12345

# HTML

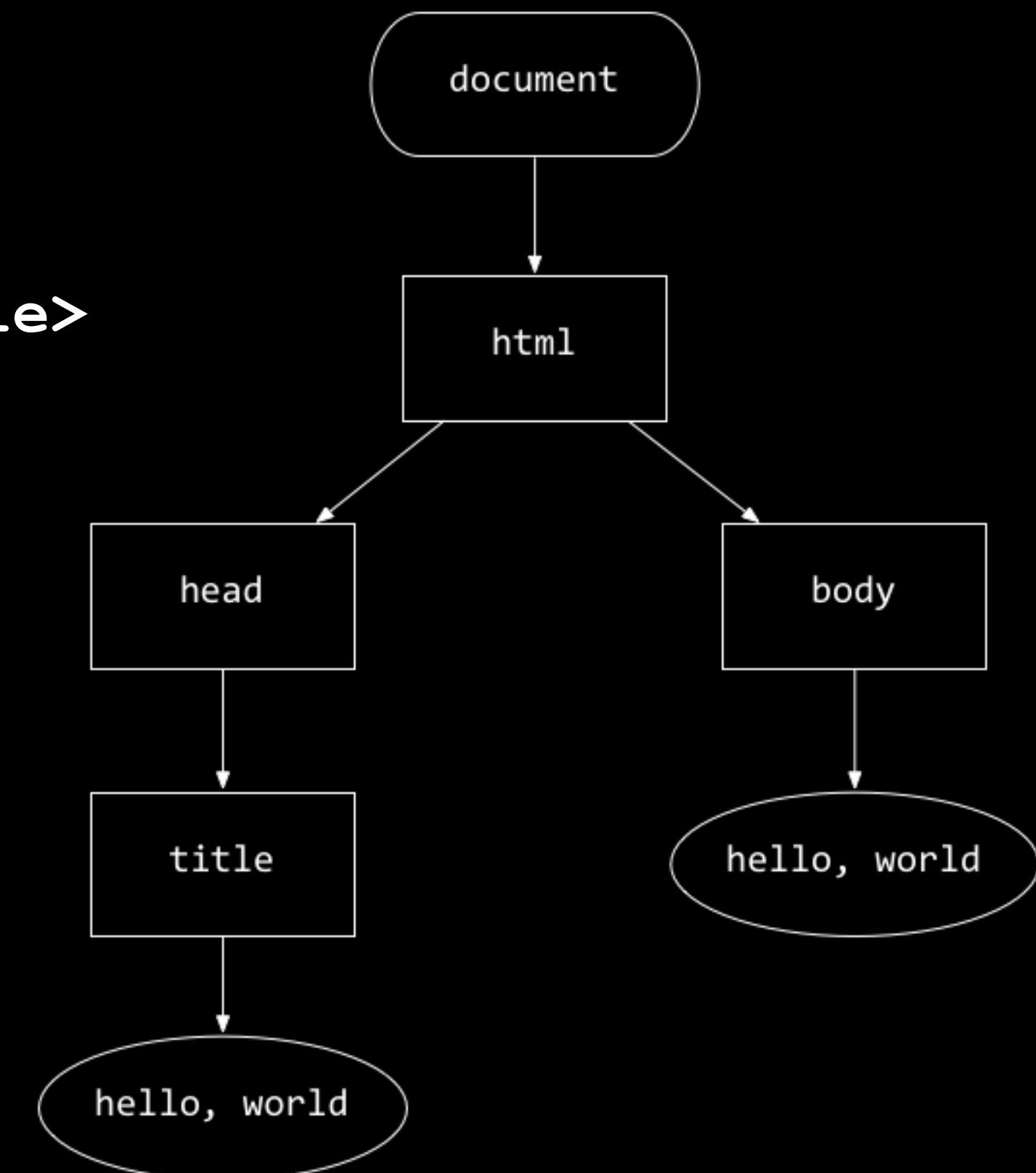


```
<!DOCTYPE html>

<html>
  <head>
    <title>hello, world</title>
  </head>
  <body>
    hello, world
  </body>
</html>
```

```
<!DOCTYPE html>

<html>
  <head>
    <title>hello, world</title>
  </head>
  <body>
    hello, world
  </body>
</html>
```







CSS3  
STYLING

ENTERING

PORT REQUESTS: 001843

PREVIOUS

## INTRUSION DETECTION - FIR

- > tar/variance = .00010,  
innduct/root/proc...
- > path:rremote:hoist/dir{binhex} log???
- > path:rremote:hoist/dir{binhex} log???
- > echo\$confab/unx/steim-Burt >
- > path:rremote:hoist/dir{binhex} log???
- > path:rremote:hoist/dir{binhex} log???

Scan

Right click to look