

DEVSTAFF MEETUP #19

TOR

LEFTERIS STAVRAKAKIS

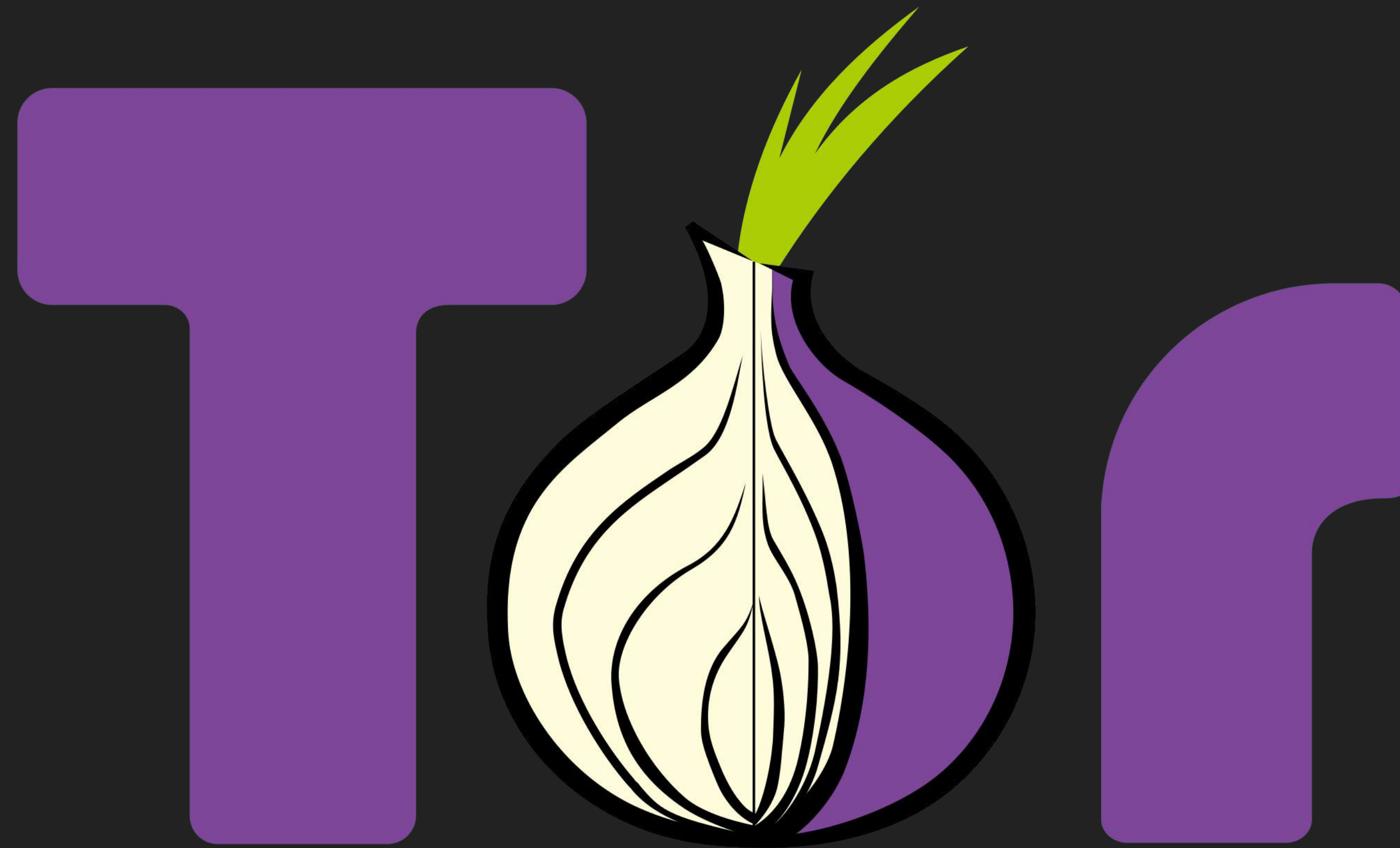
- ▶ IT Support | Information Security, CNET
- ▶ Lead Auditor, ISOQAR Hellas
- ▶ Data Protection, GDPR & ePrivacy Compliance
- ▶ ISO27001, PCI/DSS
- ▶ Risk Management
- ▶ lefteris@cnet.gr | @LeftyDidi

WHAT IS IT?

WHY DO WE NEED IT?

HOW DOES IT WORK?

TOR



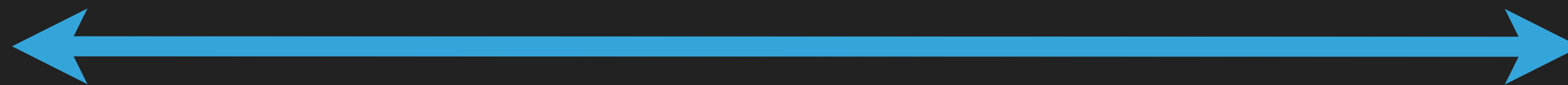
THE ONION ROUTER

ONION ROUTING?

ALICE



ALICE $<_3$ BOB





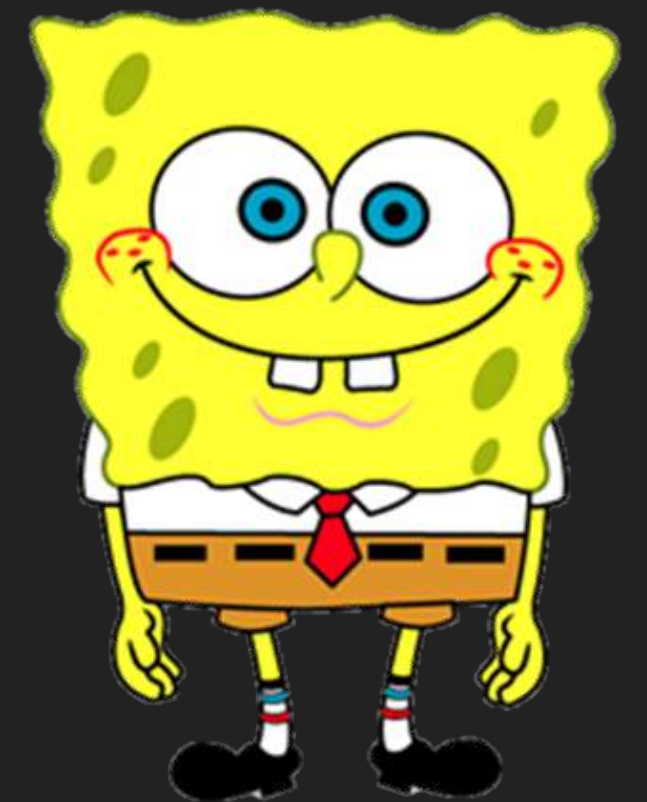
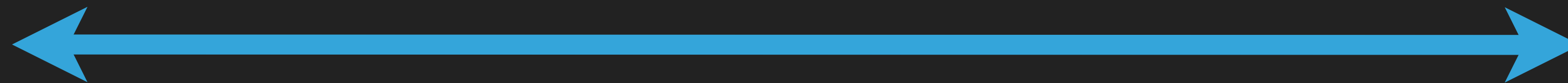
T
ONLY



Boss/Admin
Script Kiddie
ISP
LEA
Org. Crime
"Them, They"



T
ONLY







WHO?
WHEN?
WHERE?
HOW?

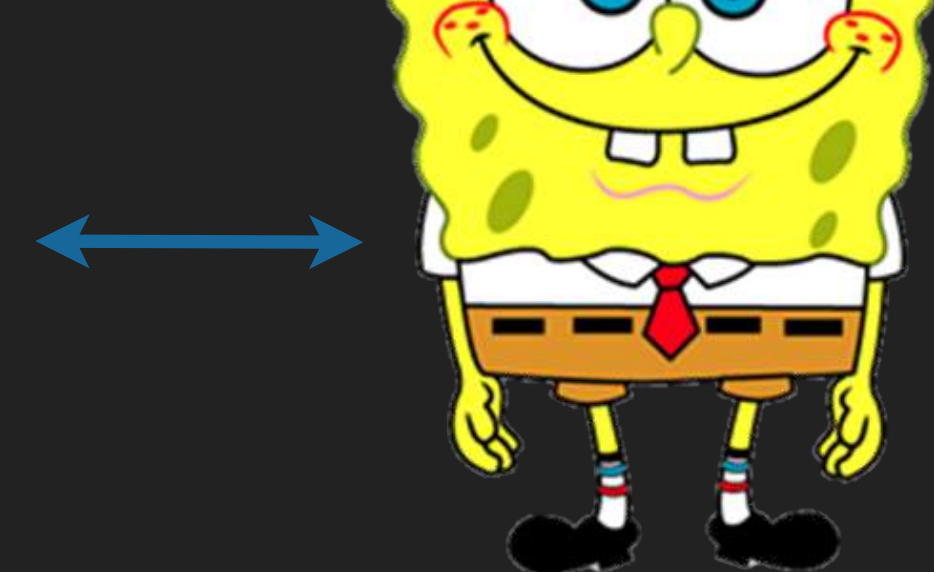
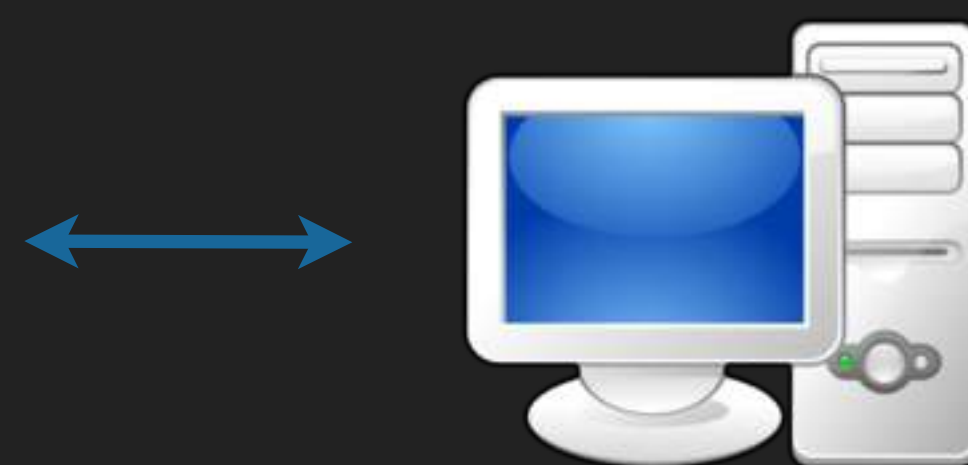
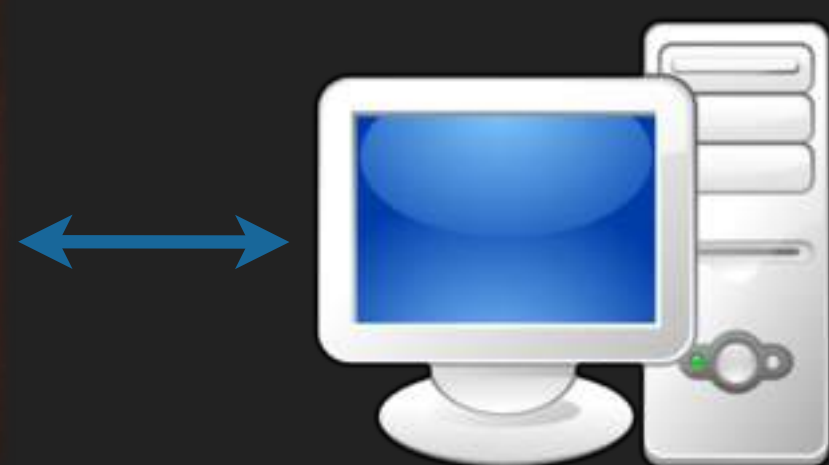
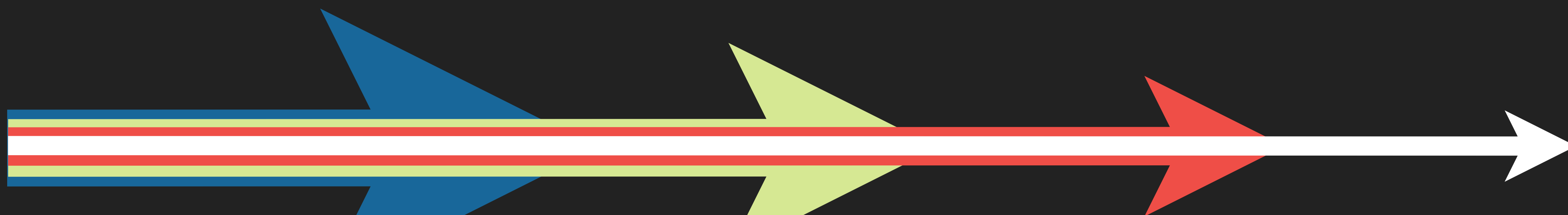


METADATA
(It Matters)



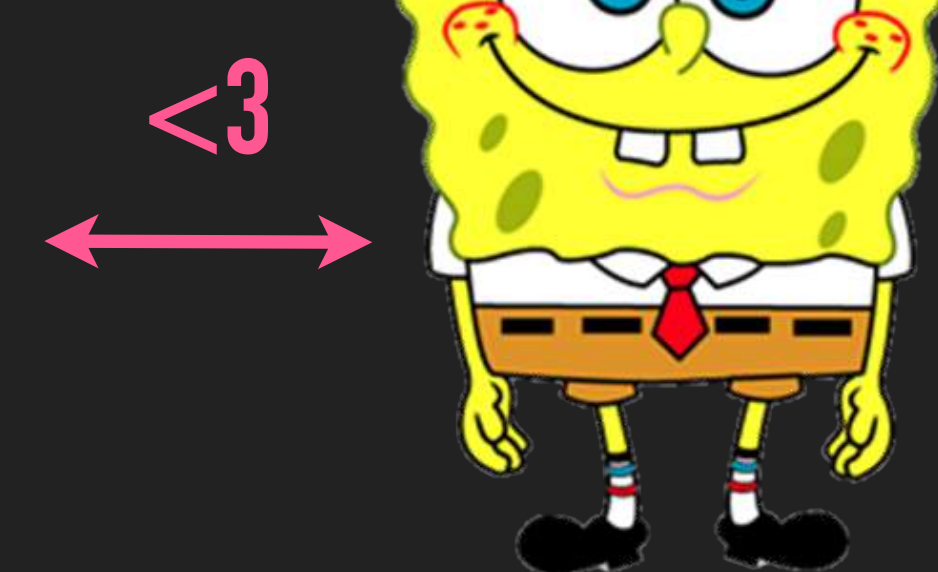
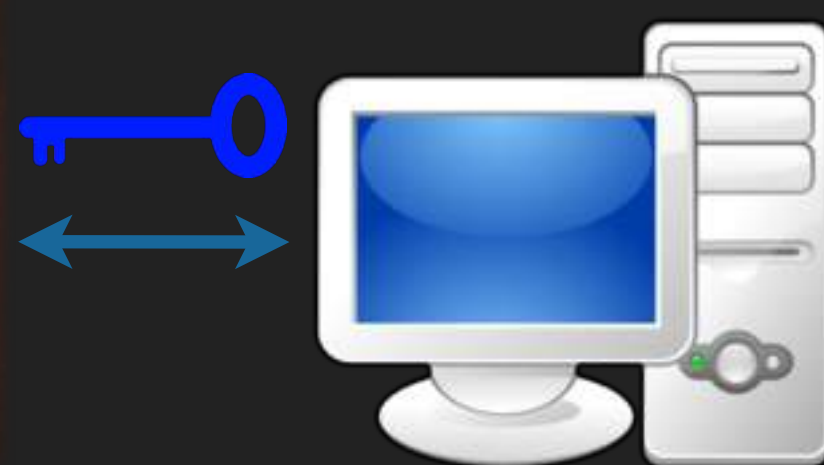


"WE NEED TO GO DEEPER"





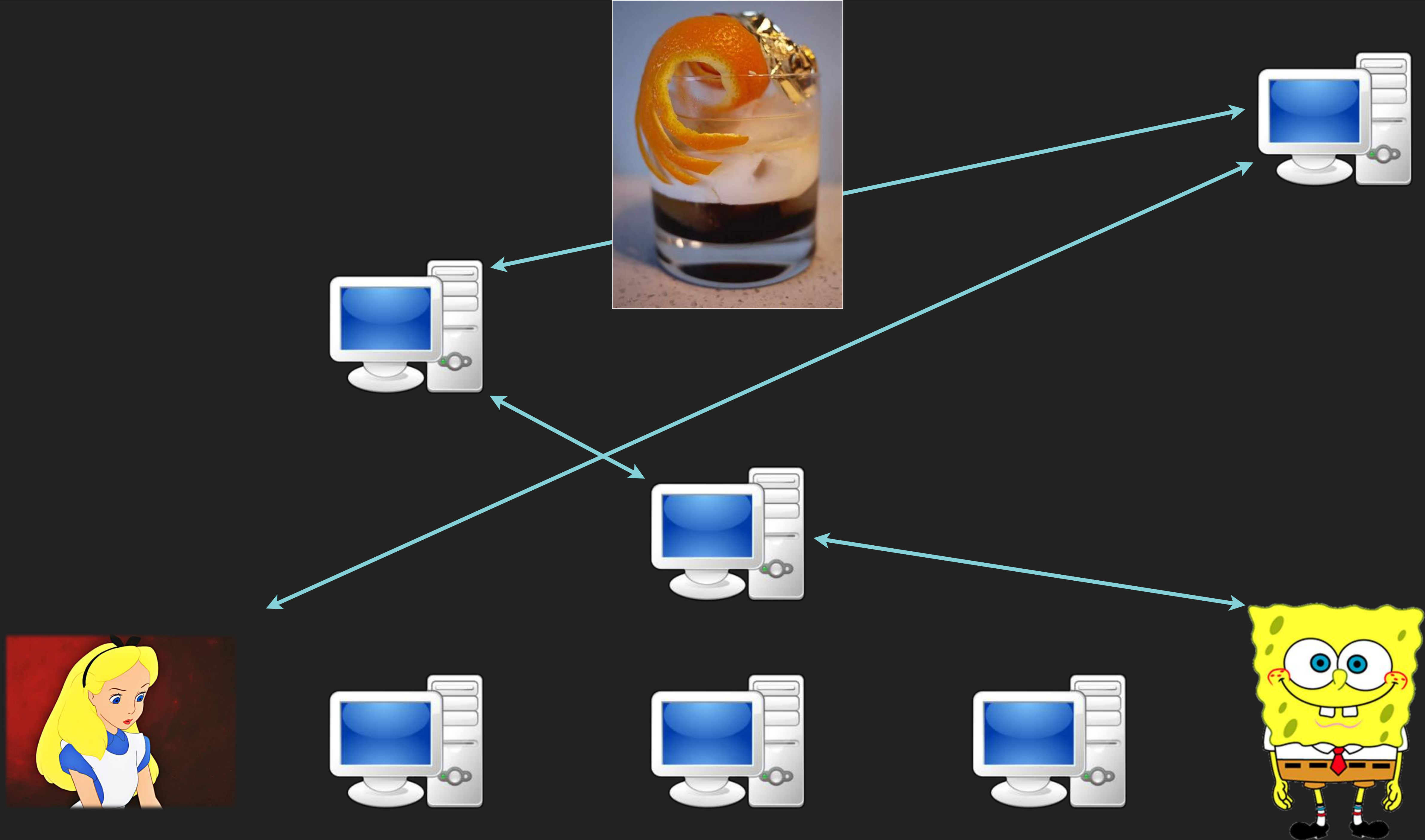
"WE NEED TO GO DEEPER"

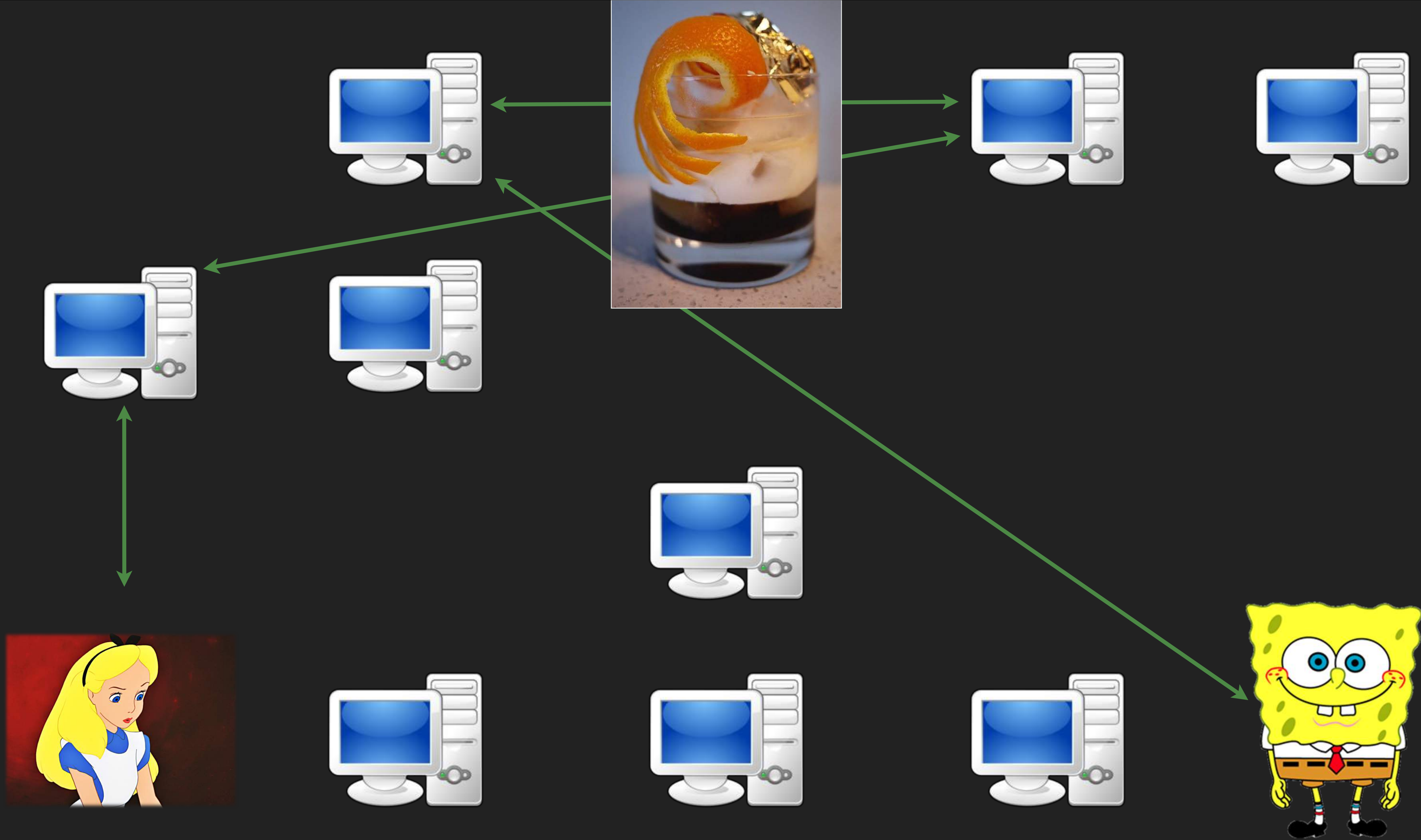


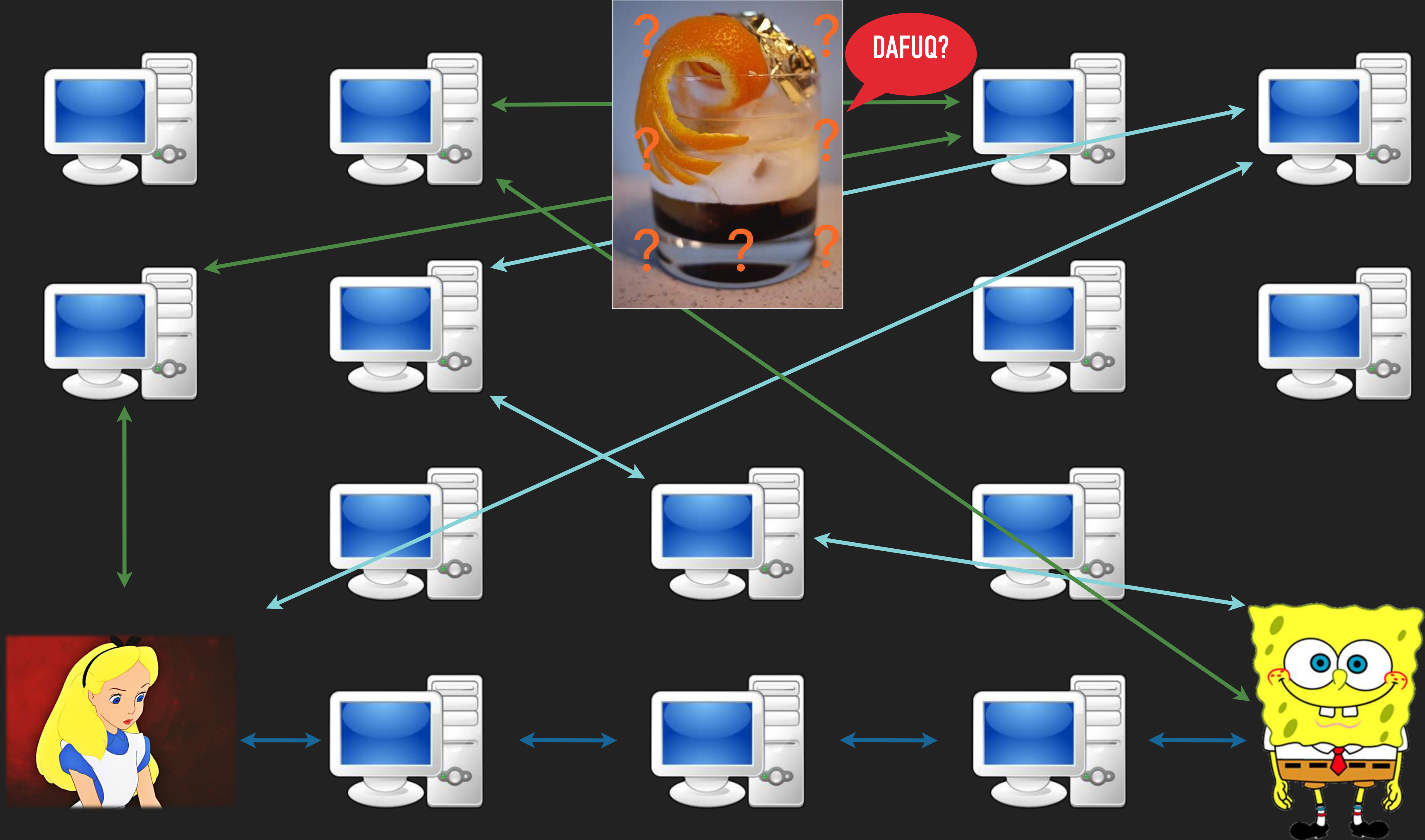


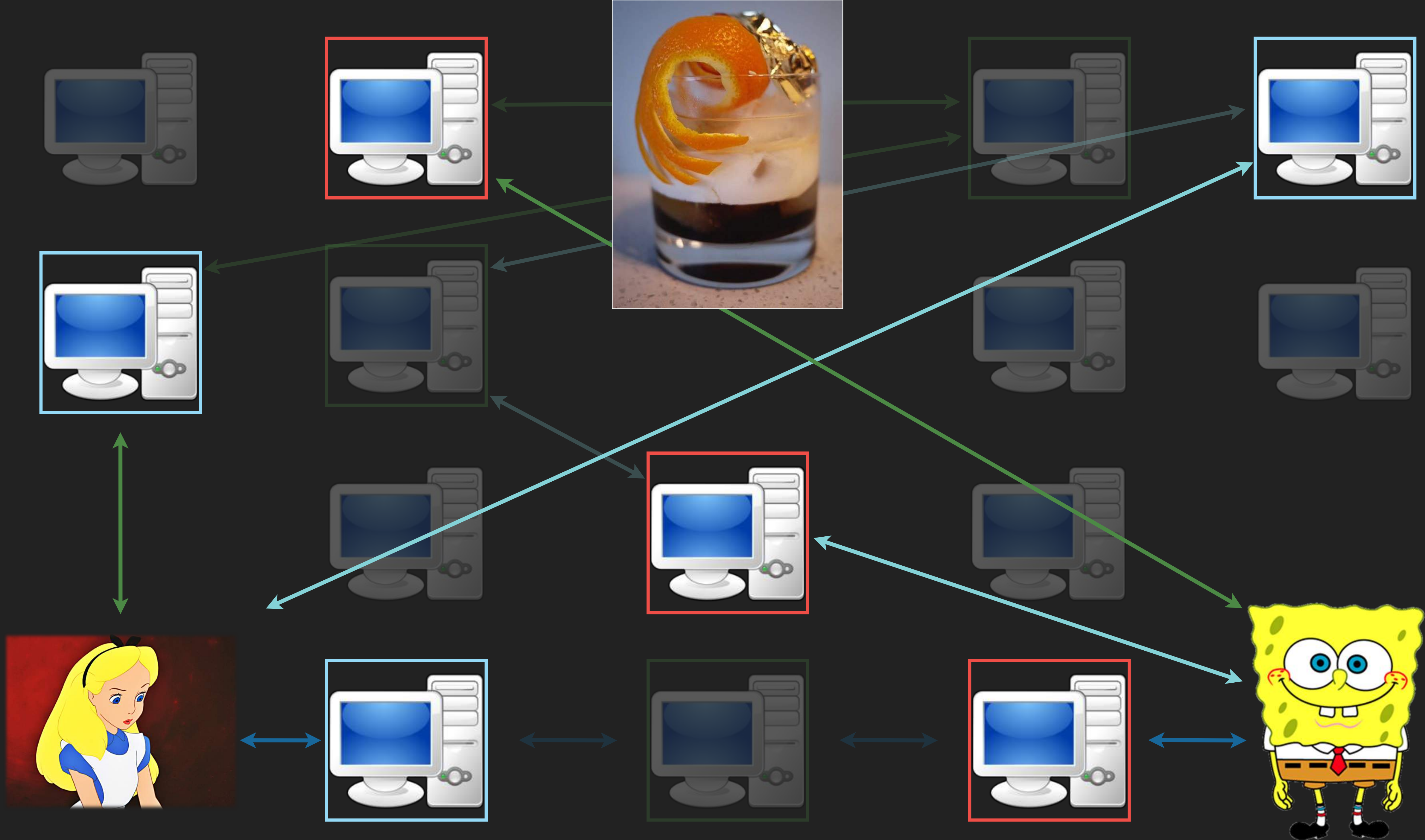
WHO?
WHEN?
WHERE?
HOW?











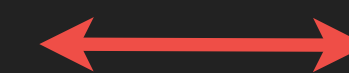
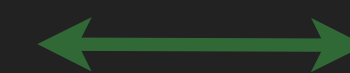
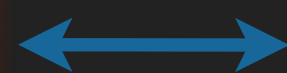


GRRRRR

Entry Relay
or
Guard Node

Middle Relay
or just
Relay

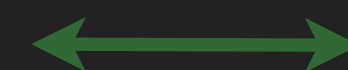
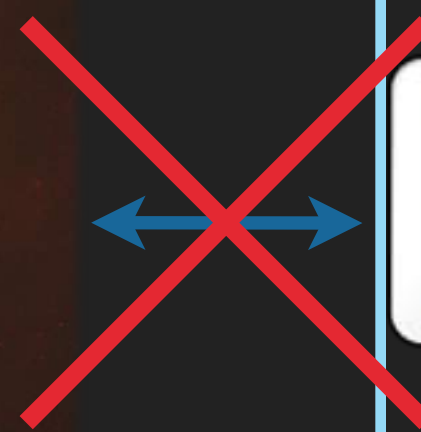
Exit Relay/Node



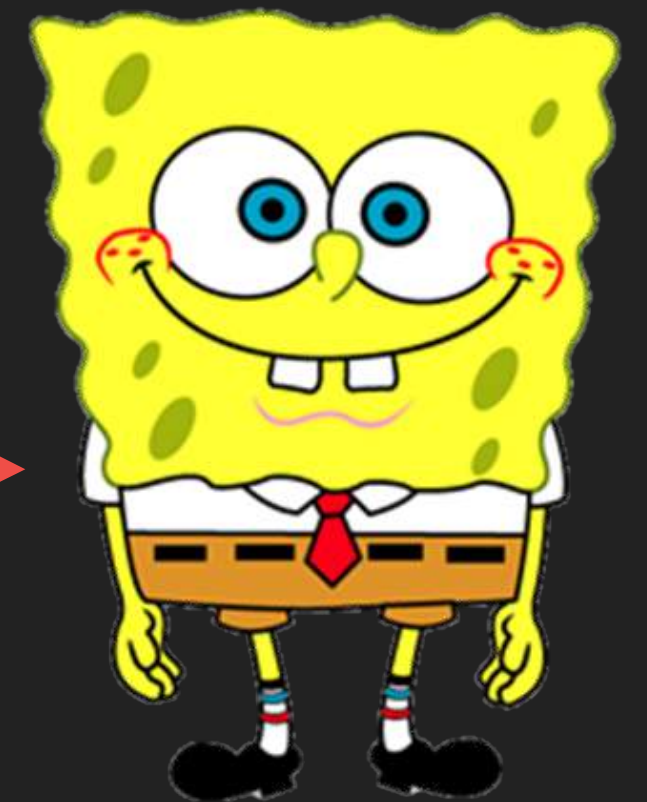
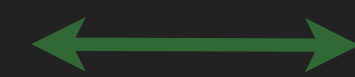
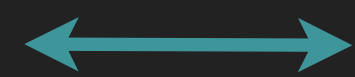
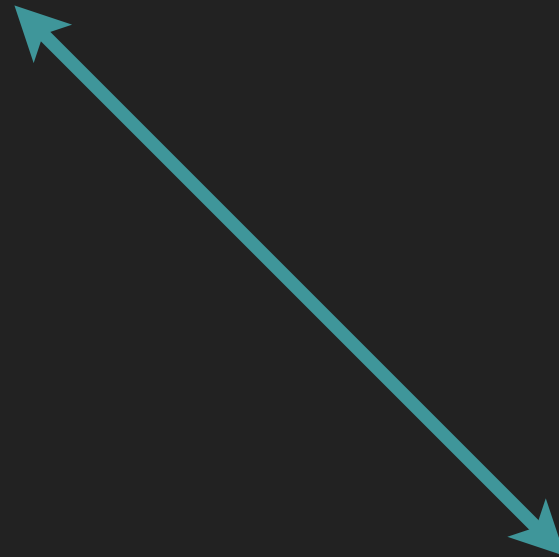
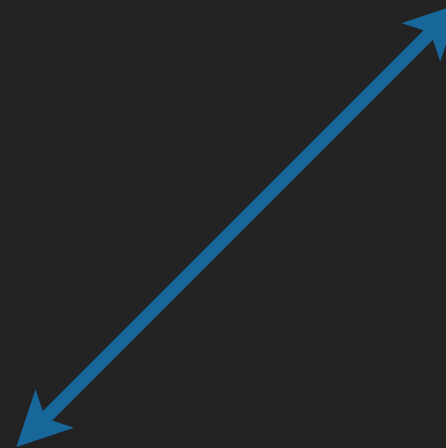




YOU
SHALL NOT
PASS!



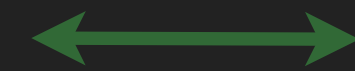
Bridge Relay
or just
Bridge



Bridge Relay
or just
Bridge



SNEAKY
BEAKY
LIKE



MAILTO:BRIDGES@TORPROJECT.ORG

get bridges

get transport [TYPE] //Pluggable Transports

get help

get key

get ipv6

MAILTO:BRIDGES@TORPROJECT.ORG

get bridges

get transport [TYPE] //Pluggable Transports

get help

get key

get ipv6



MAILTO:BRIDGES@TORPROJECT.ORG

get bridges

get transport [TYPE] //Pluggable Transports

get help

get key

get ipv6



(ok, maybe *not* this one)

MAILTO:BRIDGES@TORPROJECT.ORG

Here are your bridges:

52.14.19.171:8443 DB3D6D96060B5F1A9A07D76565F0D844DBD9435A
81.30.156.41:9733 22BCD304C6DDF96E9502D0BDB91E4B899266A67F
167.114.103.122:443 76CB93B169175952A7C9E18406A3686C8F33C2AE



(ok, *maybe* not this one)

Bridge Relay
or just
Bridge



Entry Relay
or
Guard Node



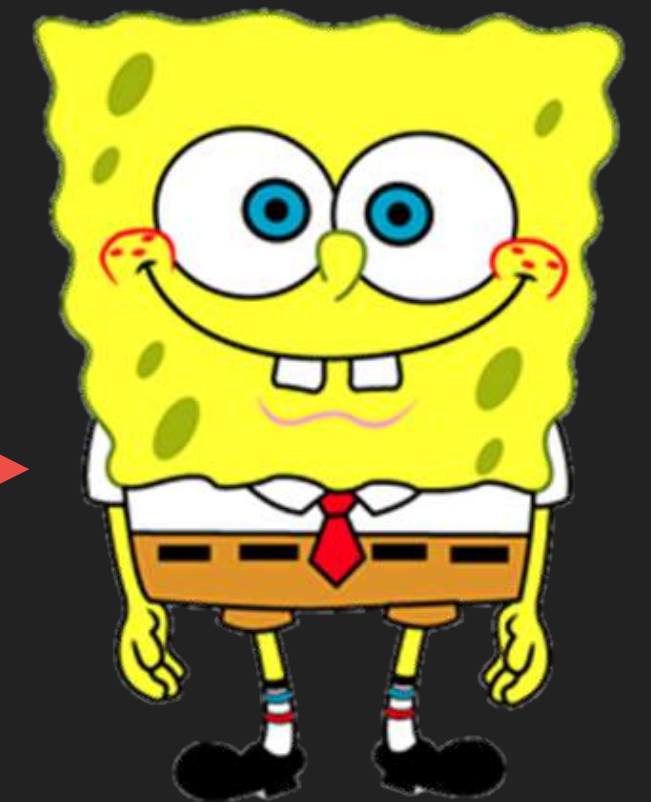
Middle Relay
or just
Relay



Exit Relay/Node

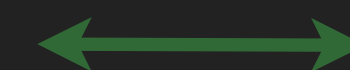
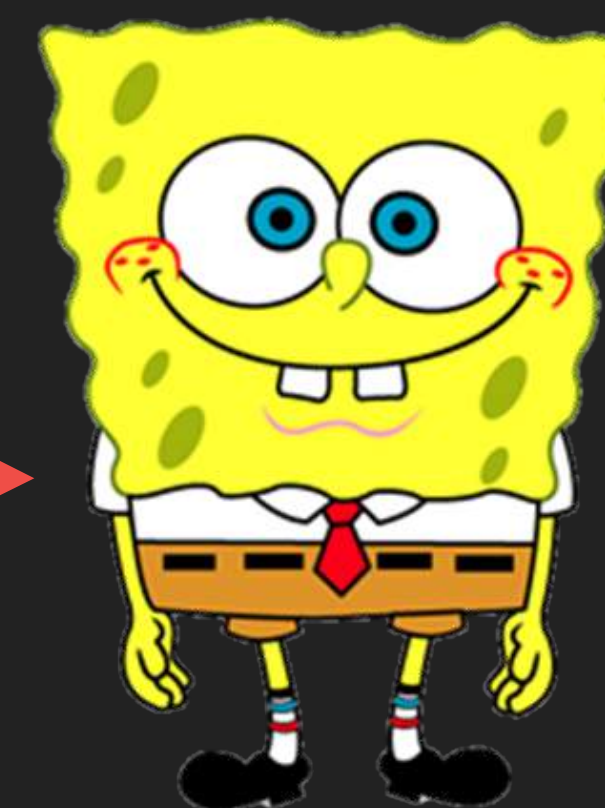


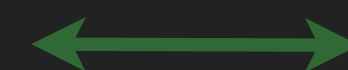
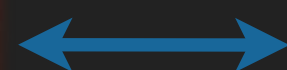
GRRRRR





PEW
PEW





Bad Apple





Trump On GNU/Linux @TrumpOnLinux · 13 Dec 2015

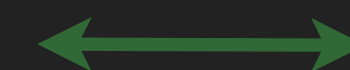
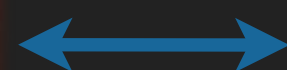
Make Tor Great Again by adding more state sponsored Exit-Nodes.



15



13



Bad Apple

USEFUL LINKS:

- ▶ Tor Project
<https://www.torproject.org/>
- ▶ Signal Private Messenger
<https://signal.org/>
- ▶ Surveillance Self Defense
<https://ssd.eff.org/>
- ▶ Data Detox Kit
<https://theglassroomnyc.org/data-detox/>

