CSC104 fall 2012

Why and how of computing
week 9

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BA4270 (behind elevators)
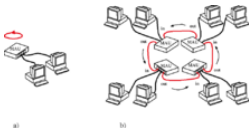
http://www.cdf.toronto.edu/~heap/104/F12/

416-978-5899

Text: Picturing Programs

Outline

networks

recursion

Notes

roundly connected
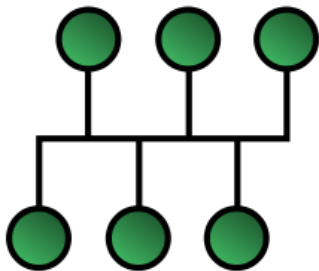
ring topology

wait for the token

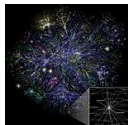# centrally connected

server runs things

all connected

bus configuration
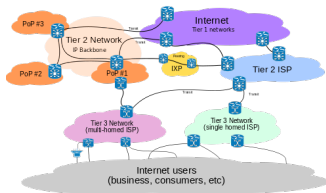

cooperate and back off

network of networks

local networks
interconnected by
gateways
(click images)

the medieval internet

NSFNET T3 Network 1992
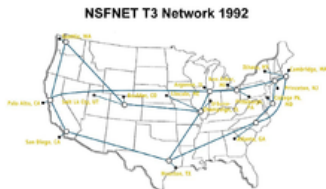
- ▶ email
- ▶ file transfer protocol
- ▶ Network File Service
- ▶ Tim Berners-Lee: WWW impossible without open
  protocols

Computer Science
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now the internet ≈ WWW

antipodal clicking...

- ▶ where's the content?
- ▶ how's it move around
- ▶ who's in charge?

palindrome detection

How do you recognize a palindrome, such as "rotor" or "ACTAGATCA"?

- ▶ given/required?
- ▶ check-expect a small example or two
- ▶ try to state the recipe

sierpinski's triangle

Check out Scary Sierpinski Skull Time by Vi Hart.

How would you build these?

- given/required?
- doodle a bit
- the recipe must use itself
- check-expect will use recipe...?

Notes