CSC104 Winter 2013 Why and how of computing week 11

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Text: Picturing Programs

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Outline

networks

Notes



roundly connected ring topology



wait for the token



centrally connected

star configuration



server runs things



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all connected bus configuration



cooperate and back off



network of networks



Computer Science UNIVERSITY OF TORONTO

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the medieval internet



NSENET T3 Network 1992

- email Coffespondues.
 file transfer protocol move files one

- Network File Service
- ▶ Tim Berners-Lee: WWW impossible without open protocols _ not proprietaly

now the internet \approx WWW antipodal clicking...

Some " were" I mostly in australia, from host-> host hopping along hopping along where's the content? how's it move around no single authority although ICANN controls nome TL who's in charge? (日)



 There is a combination of broad-based publishing and powerful media interests

 The jury is still out on accuracy, for example Wikipedia versus Britannica

flatten

```
; flatten : list -> list
(define (flatten L)
  (cond
    [(cons? L) (apply append (map flatten L))]
    [else (list L)]))
; predict what (flatten 3) does
; predict what (flatten (list 3)) does
; predict what (flatten (list 1 2 (list 3))) does
```



depth

```
; depth : list -> number
(define (depth L)
  (cond
    [(cons? L) (+ 1 (apply max (map depth L)))]
    [else 0]))
```

- ; predict what (depth 3) does
- ; predict what (depth (list 3 4)) does
- ; predict what (depth (list 3 4 (list 5 6))) does

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