CSC104 Winter 2013
Why and how of computing
week 12

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Text: Picturing Programs
Outline

privacy

Notes
share, but don’t share
Richard Stallman – C Scientist, founder GNU Software
> you are here, probably.
- other avoid computers, not bolts, speech.

information wants to be shared...
how much?
with whom?
privacy, pro or con?
make your lists...
control
name
address
email
phone number
DOB
thoughts,

control
thoughts, plans
to do, bad?
conspiracy
privacy, negotiated
prudential, right.
concentric circles of privacy
who fits where?
privacy leaks
know privacy’s plumbing

buyer loyalty plans what do they for those “deals”? surveys not just an interruption.

credit information who knows you paid late?

recorded viewing check the agreement
black boxes not just for crashes

911 where’s waldo?
rfid bar codes, shopping history, drugs?

computer use what’s your admin see?
cookies where have you been browsing?
required leaks can lose your identity

Being born, working, imprisoned, or paying taxes, can generate information about you that you aren’t allowed to keep private. How many of these do you think are necessary to identify an American with more than 80% accuracy (according to Dr Latanya Sweeney)?

- hospital of birth
- date of birth
- gender
- postal code
- blood type
what can you do?

increase privacy and security

- passwords and pins
- know something about contacts
- update security software, OSs
- careful when you click

For important stuff encrypt
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
(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