CSC104 Winter 2013 Why and how of computing week 12

Danny Heap heap@cs.toronto.edu BA4270 (behind elevators) http://www.cdf.toronto.edu/~heap/104/F12/ 416-978-5899

Text: Picturing Programs

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# Outline

privacy

Notes

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# share, but don't share



information wants to be shared... how much? with whom?



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#### privacy, pro or con? make your lists...

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# 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?

> > (日) (四) (日) (日)

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 Sweeny)?

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- 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

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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
```



# 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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### Notes

