

The Personal Information Environment beyond the Personal Computer

Alan Dix

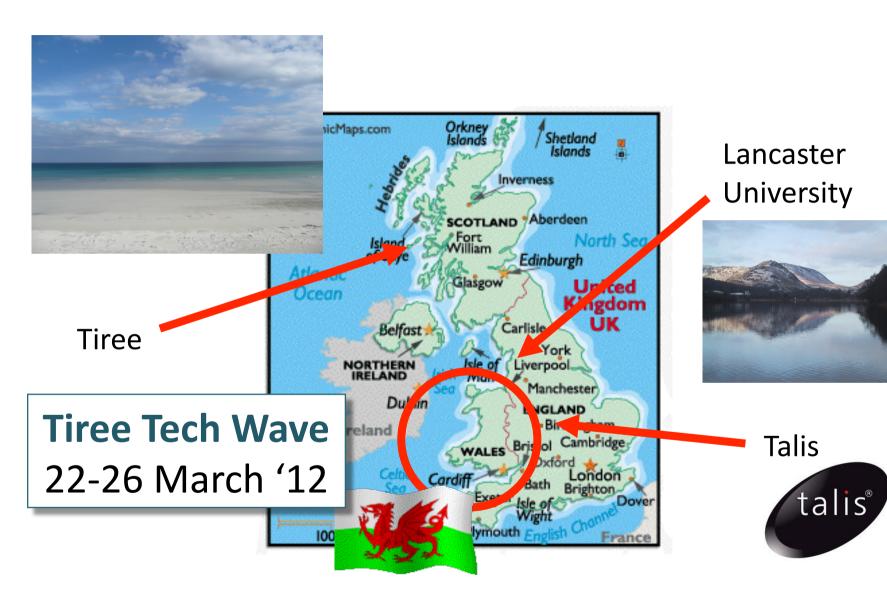


Talis & Lancaster University



http://www.hcibook.com/alan/talks/iUser-2011-keynote-personal-inf-env/





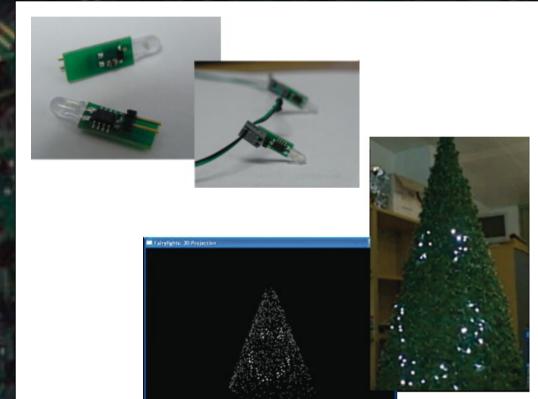


today I am not talking about ...

- intelligent internet interfaces
- visualisation and sampling
- situated displays, eCampus,
 small device large display interactions
- fun and games, virtual crackers, artistic performance, slow time
- physicality and product design
- creativity and Bad Ideas
- modelling dreams and regret

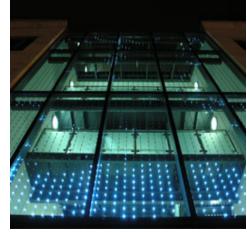






http:/www.hcibook.com/alan/projects/firefly/







I am talking about ...

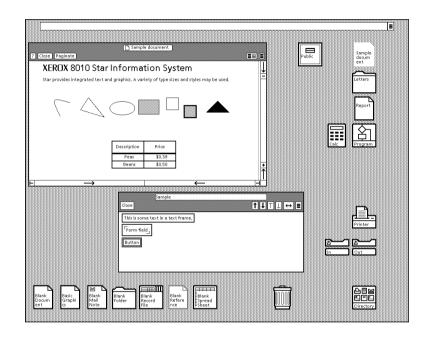
personal information environment ... basically the personal OS!

how it could/should be in the future

do not have all / any of the answers but maybe a few directions



WIMP is over 30!





Xerox Star 1981

Mac OS Lion 2011

http://www.aresluna.org/attached/usability/articles/biurkonaekranie/pics/xerox http://www.apple.com/macosx/



... some things changing



Apple iOS



Windows 8 start screen



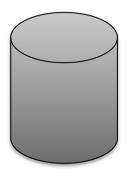
onCue 1999



classic model



screen/pointer/k'board for input/output



local disk for storage



local CPU for computation





different packages





but same model





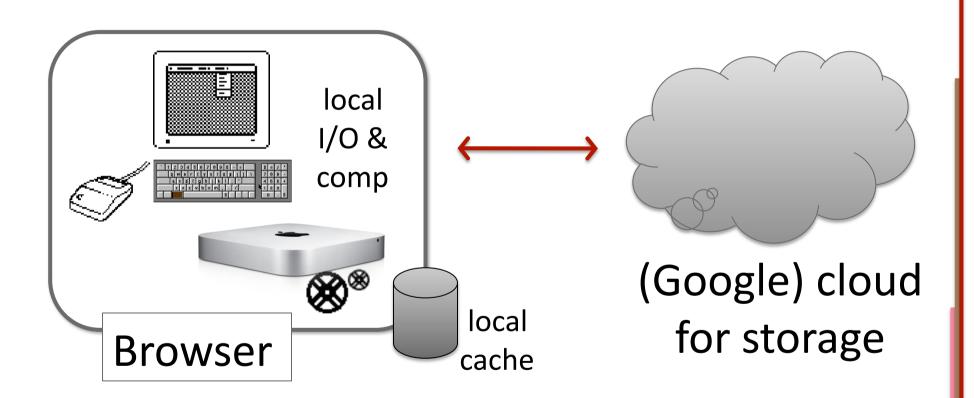
soft keyboard



different models

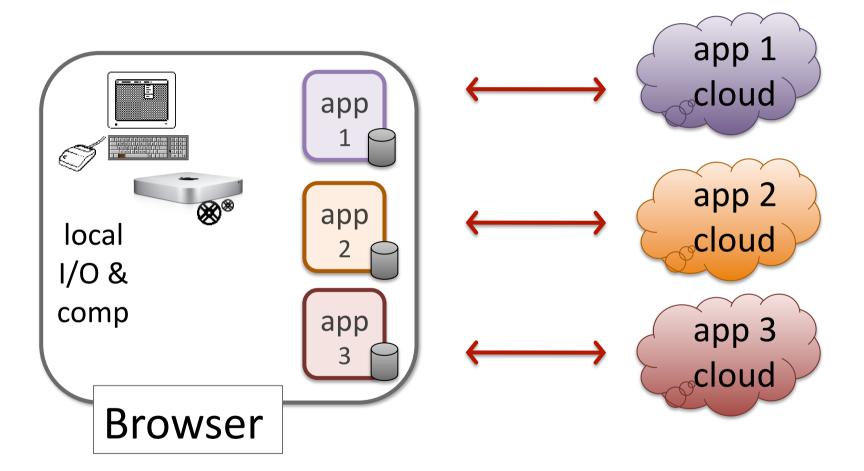


Google model



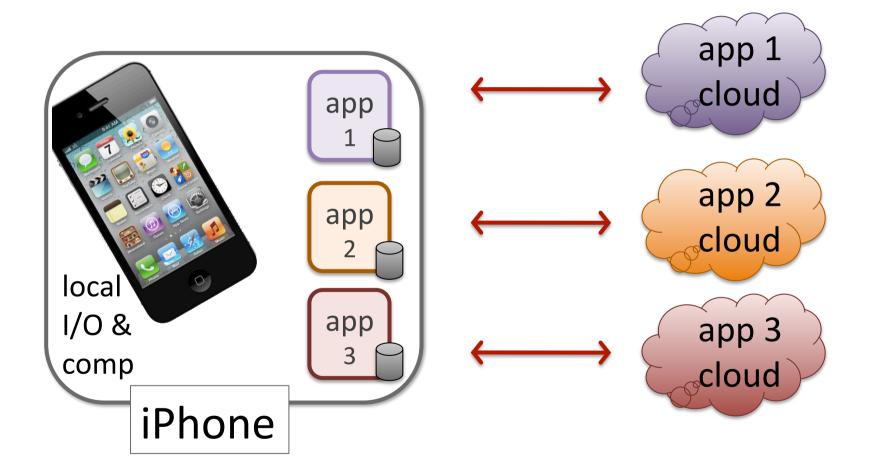


web apps model



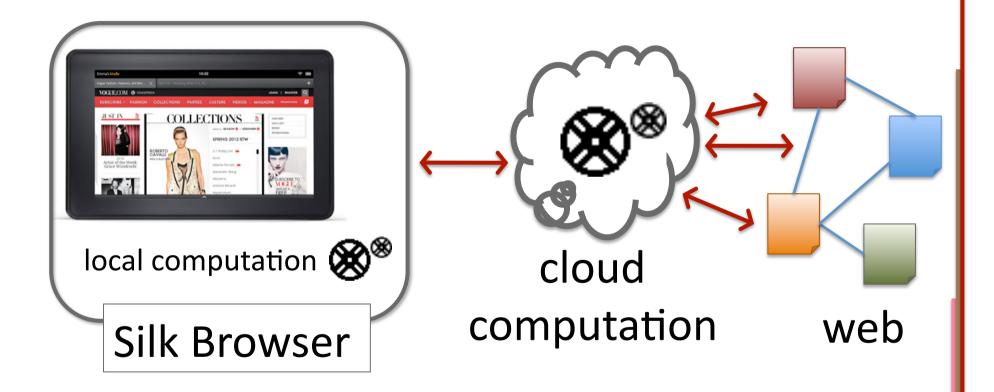


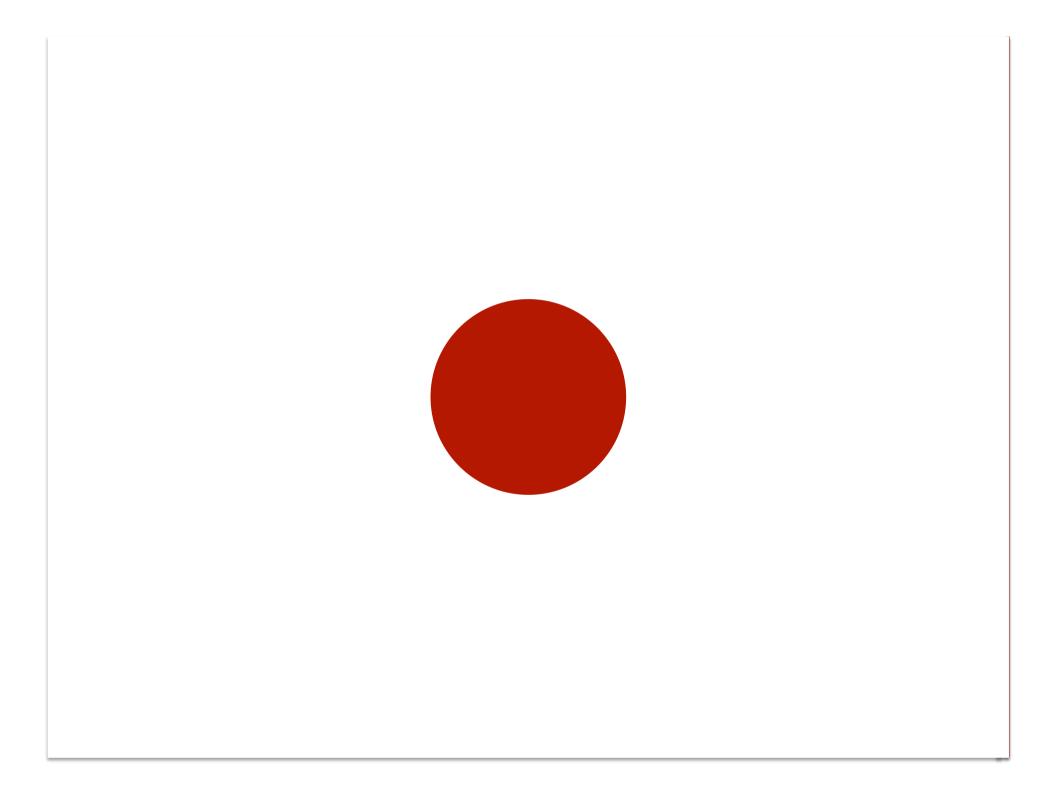
Apple iOS model





Amazon model







issues



volume

fragmentation

new kinds



volume

fragmentation

new kinds



fragmentation – PIM literature

(Personal Information Management)

long-standing issue

- email, files, contacts, web bookmarks
- separate structures
- yet clearly linked (e.g. file arrives by email)

need for integration

- loads of prototypes (e.g. Boardman)
- also Semantic Desktop work
- but none have become widely used ☺



... and the web

fragmentation gets worse

web versons of desktop apps:

email, docs, contacts, calendar

but also new

Flickr, Facebook images, DropBox, del.icio.us

each managed by their own web apps



volume

fragmentation

new kinds



new types of information

```
social networking
   mostly ephemeral: tweets, FaceBook posts, etc.
   but also social graph itself (friends list):
end-user content
   e.g. YouTube, blogs, Amazon reviews, comments
mostly managed as timestream or tags
increasing 'serious' use
   may become point of record for contracts, etc.
plus ...
   sensors, information appliances, internet of things
```



volume

fragmentation

new kinds



volume

for traditional data:

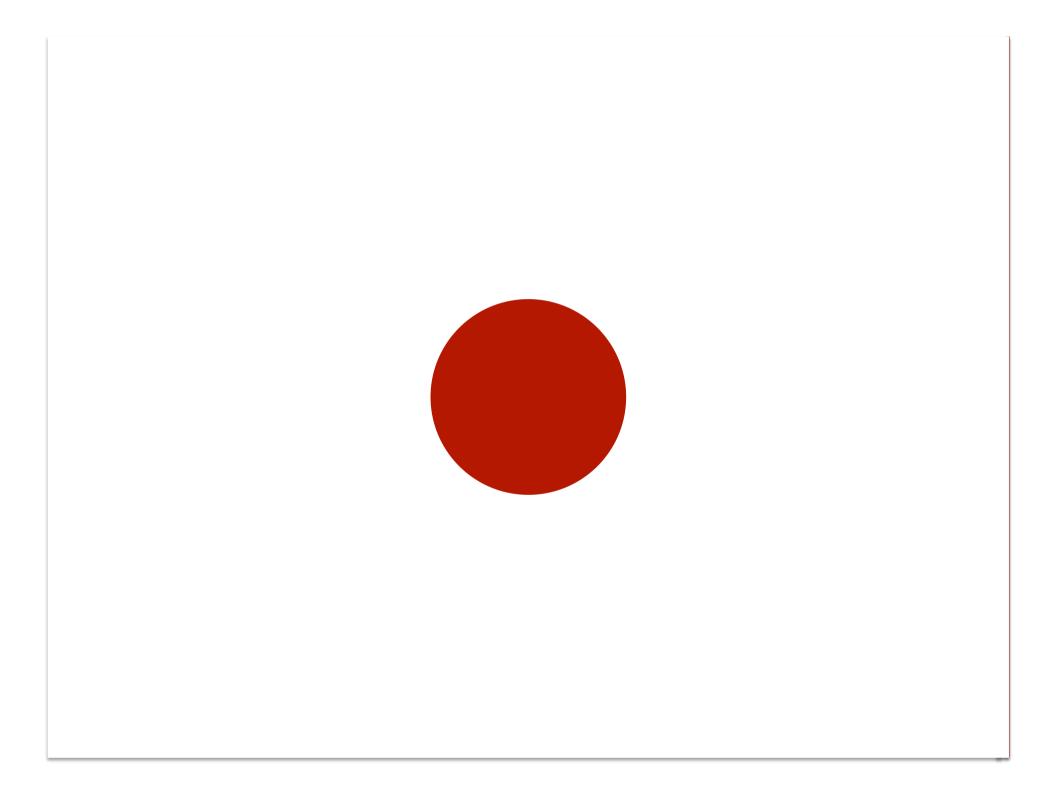
I have 200,000 files, 2000 email folders ...

for 'new' data:

I have nearly 700 blog posts and over 2000 web 'snips' plus all the data stored about us!

UK Memories for Life 'Grand Challenge'







approaches



(some) key components:

people

e.g. friends, email address vodfone360 (no more!)



project/activity

e.g. write paper, do PhD Jones' KFTF

functions

e.g. edit photo traditional applications

task

e.g. book flight (some) iPhone apps

things

e.g. car embedded interfaces

docs/info

e.g. file, photo open doc



... but relationships complex

e.g. study of PIM use (Matjaz Klun)

standard PIM systems:

people – projects – documents

Matjaz asked users to do their own mind map:

people – documents – projects



maybe no integration

separate web/cloud apps separate phone apps separate household devices

nothing linked



extending the traditional OS

bringing resources into the 'file system'

e.g. DropBox, iDisk/iCloud

new OS/app styles:

e.g. Windows 8 'Photo Feedr' (?MS cloud only?)





web-based interactions

the Google option!

but ...

web apps very 'siloed' few connections need to bring desktop disks into the web



none seem satisfactory

need new approach ...

but what?

I don't know ... but ...



(some) (high level) requirements

where matters:

audience: Flickr, iPhone, Facebook

reliability: cloud, personal disk

when matters:

disconnection still an issue!

what matters

it is still my photo wherever it is



(some) enabling technologies

synchronisation

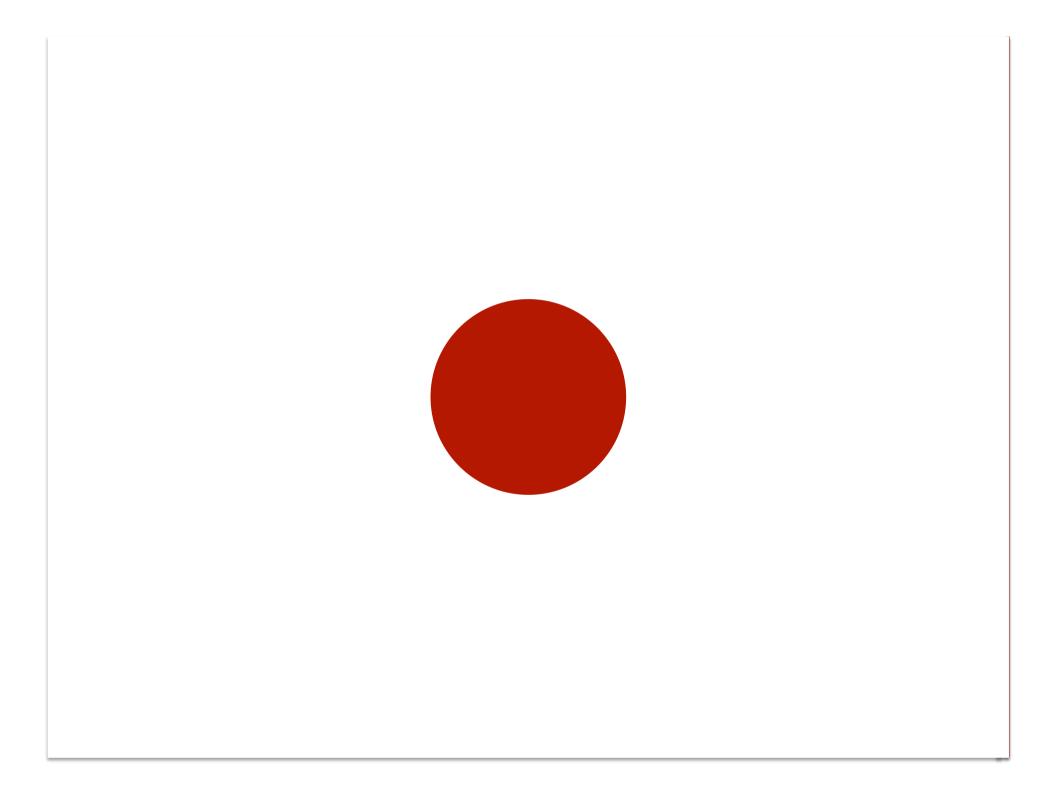
- for replication / caching
- why can't Apple get it right!

GLOIs – globally accessible local URIs

- so that we can talk about desktop things
- email messages, single contexts, etc.

meta-data

maybe not have all our data, but know about it





the future – what next?



plus ...

come to Tiree Tech Wave

TTW3 – 22-26 March 2012 TTW4 – Oct/Nov 2012