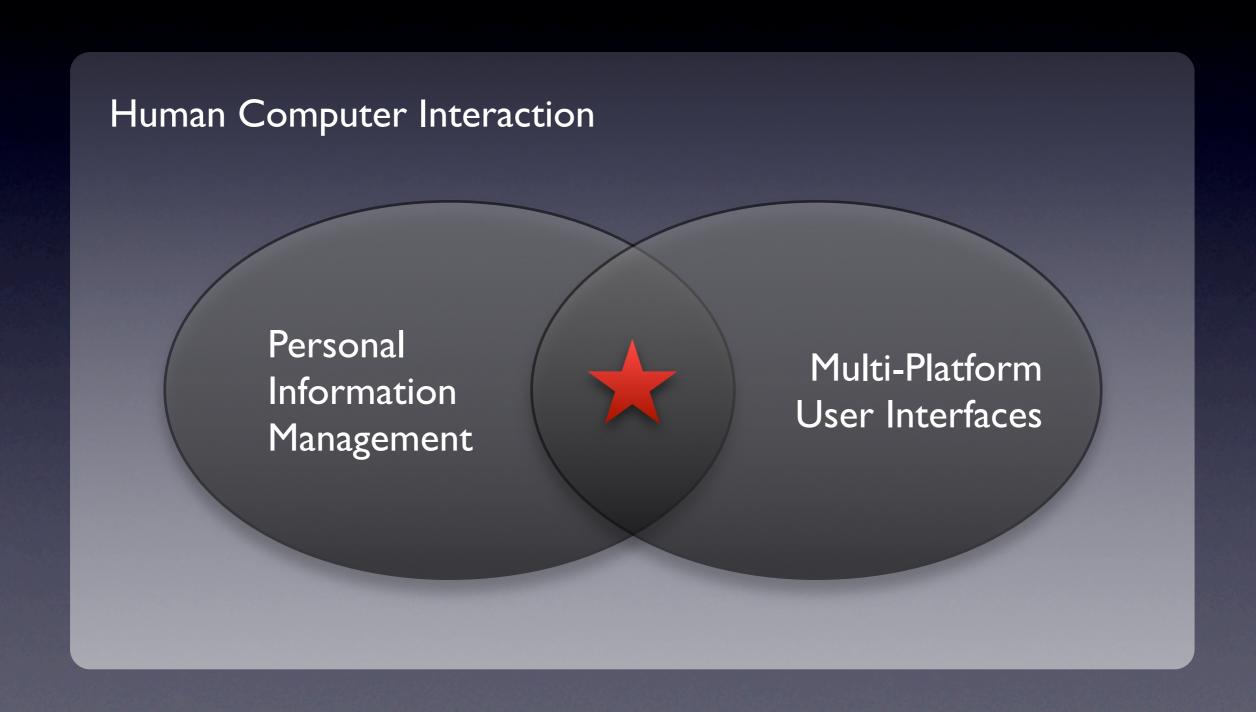
Understanding the Evolution of Users' Personal Information Management Practices

Manas Tungare

Advisor: Manuel Pérez Quiñones



Research Area Overview



Personal Information Management



Information kept for personal use.
E.g. files, documents.

Information about a person kept by and under the control of others.

E.g. health information.

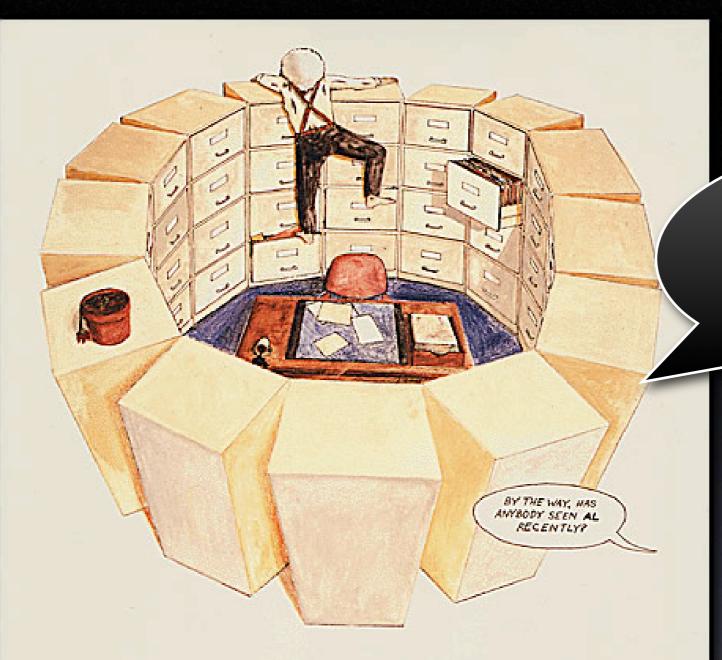
Information experienced by a person but outside her control.

E.g. books, websites browsed.



Information directed to a person.

E.g. email, IM.



By the way, has anybody seen Al recently?

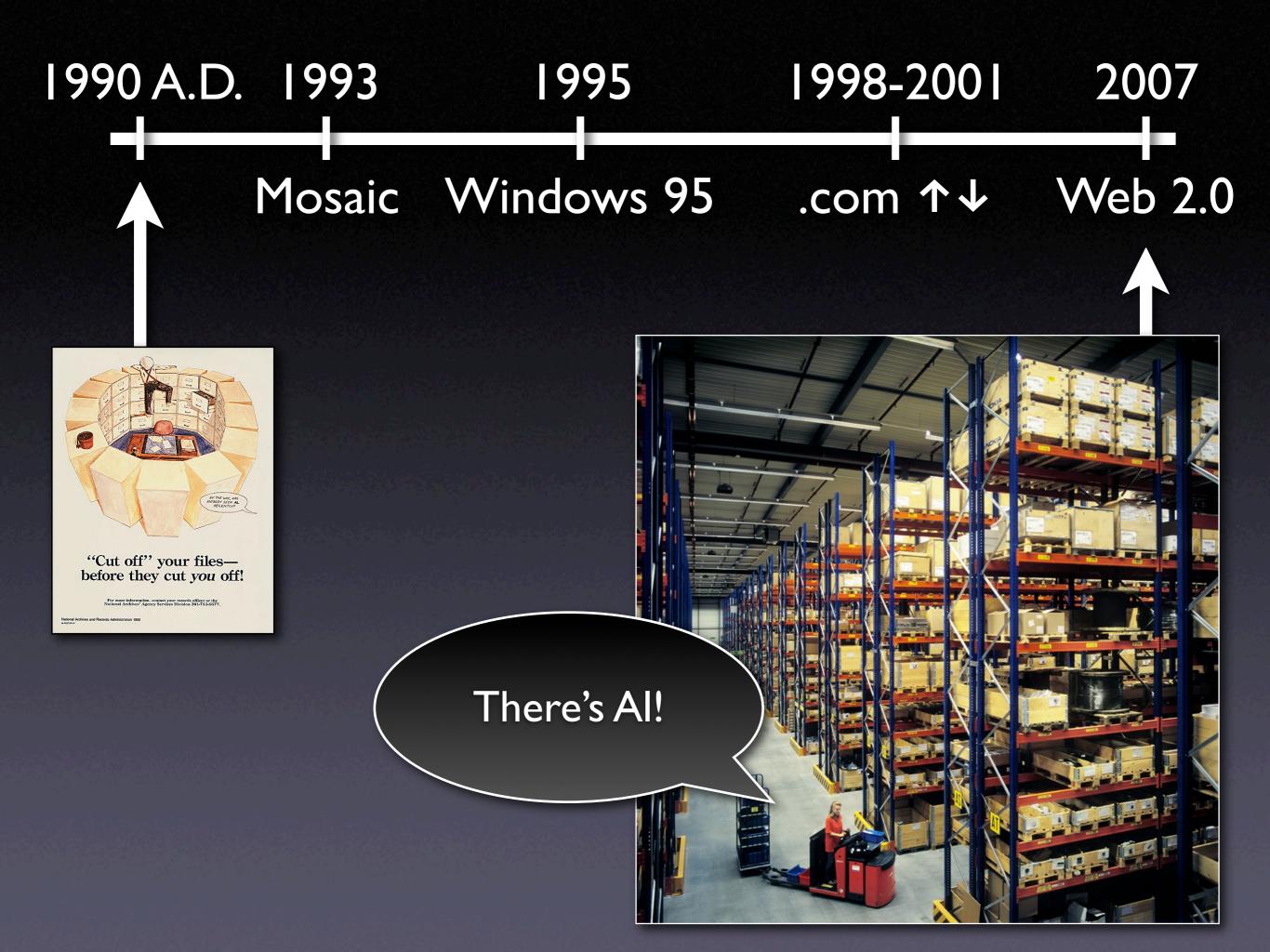
National Archives and Records Administration, archives.gov

Circa 1990 A.D.

"Cut off" your files before they cut you off!

> For more information, contact your records officer or the National Archives' Agency Services Division 301-713-6677.

National Archives and Records Administration 1990 wearen in



Information In Many Forms



Mind-boggling Amounts

Email messages per day

53364 Messages in personal archive

73997 Files in home directory

Information is Fragmented

Across Devices

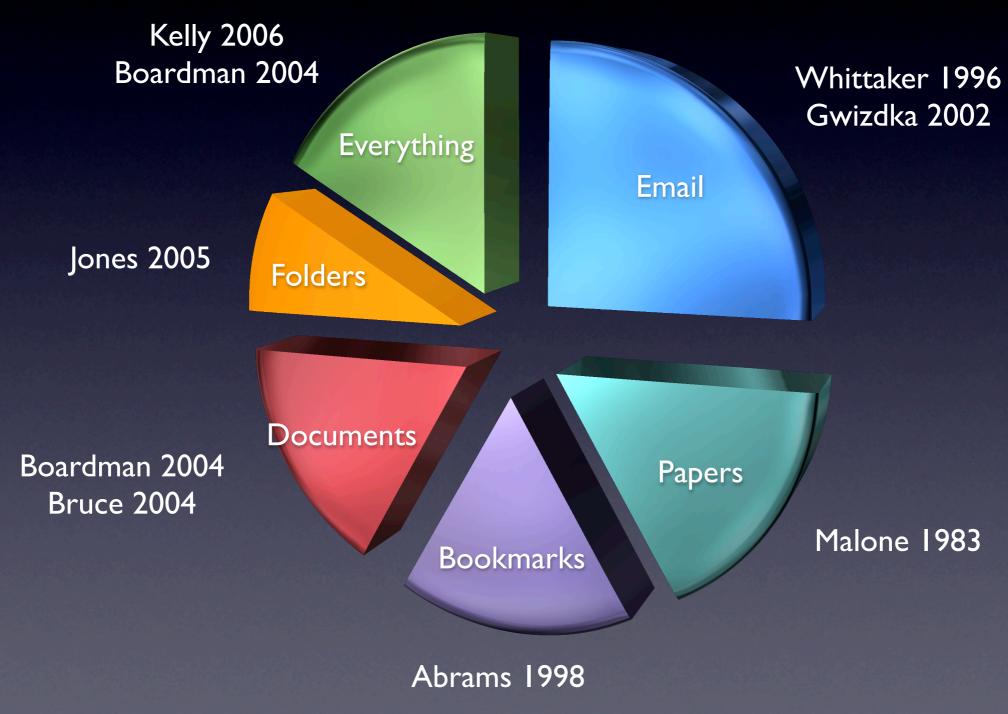


Information is Fragmented

Across Collections



Research is fragmented



Why study PIM?

- Everybody does PIM
- Tools are not sufficient
 - A deeper understanding of personal information is needed
 - Custom strategies and workflows
- Approaches: browsing versus searching

[Teevan 2004]

Personalities: filers versus pilers

[Malone 1983]

Studying PIM

- PIM is highly individualized
- People develop strategies to manage Pl
- PIM strategies evolve over time
 - Transitions in life; new devices & tools
- PIM is highly contextual
 - Hence difficult to study

Study I: PIM & Multiple Devices

- How do devices affect information flows?
- Inter-relationships between devices
 - Formation of groups of devices
- Attaining equilibrium in the information ecosystem
- Device failures

Study I: PIM & Multiple Devices

- Survey + Interviews
- What activities do you perform on each device?
- What data do you keep on each device?
- What pairs of devices do you keep synchronized?
- What failures have you encountered?

Study 2: Evolution of PIM

- Natural transitions in life
 - High school to college
 - Grad school to industry
- A disturbance is noted when environment changes.
- How is equilibrium achieved?

What we expect to learn

- Are changes in PIM all the same in all cases?
 - New devices
 - Device/workflow failures
 - Changes in work environment
- What parameters affect PIM practice adoption?

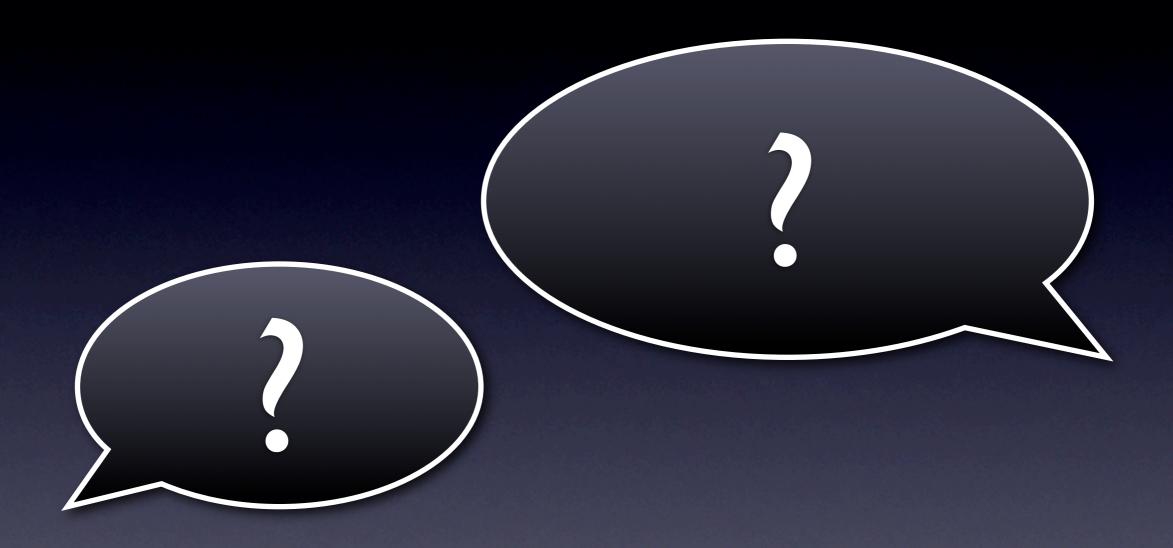
Analyzing survey data

- E.g. why do people use their address book on their phone, but not on their desktop?
- Hypothesis: Not all devices and not all collections are the same. Keeping, storing, organizing, & finding depend on type of data & device.
- Usage depends upon the combination of devices and collections, plus other factors.

Summary

- PIM is an interesting area in HCl where a deeper understanding would benefit lots of users.
- Open questions in PIM research include understanding how people use multiple devices for information management.
- Our studies will help answer these and design future devices and apps better.

Questions



manas.tungare.name/publications manas@tungare.name