





- concepts (Andrew)
- implementation (Cornel)
- XENA demo (Andrew)





- idea of 'essential performance' is central to the NAA approach
- two significant components to this:
 - performance
 - essence



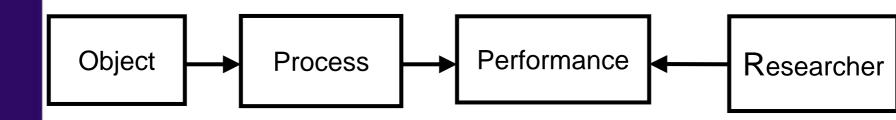
• records are experienced directly as objects

Object

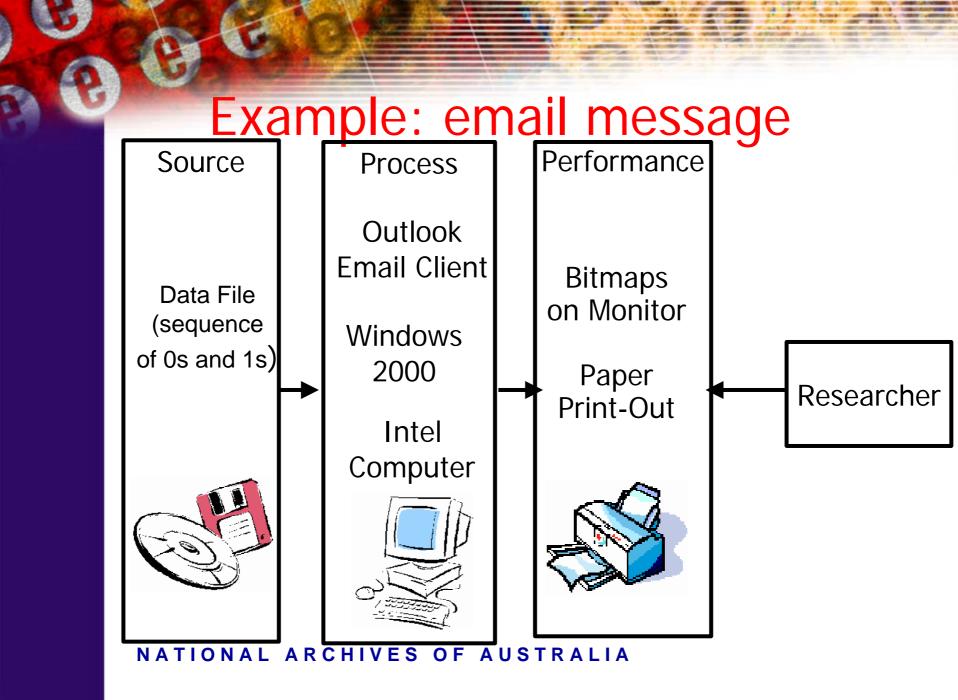
 preserving the object is how we preserve the 'record'

Electronic records are different

• 'record' is experienced as a performance



• preserve the performance and we preserve the 'record'



Keeping source + process doesn't work

- media is fragile and fails
 - need to refresh the source
- components become obsolete
 - technological and marketplace obsolescence
- components are proprietary and licensed (not purchased)
 - software licenses don't last forever!

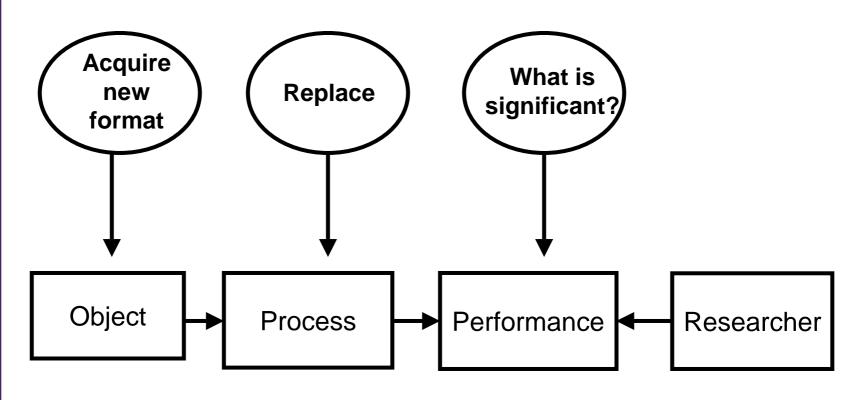


but what?

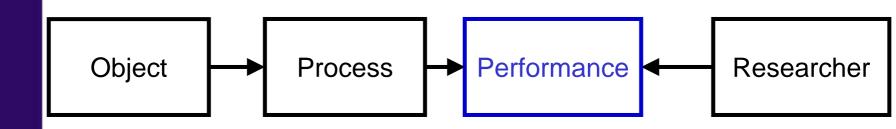


- what is significant about the performancewhat is the *essence*?
- 2. what format best expresses the *essence*?
- 3. what do we use to manage the new source (essence) in a way that allows us to reproduce the performance at will?

Preserving performances



What is significant?

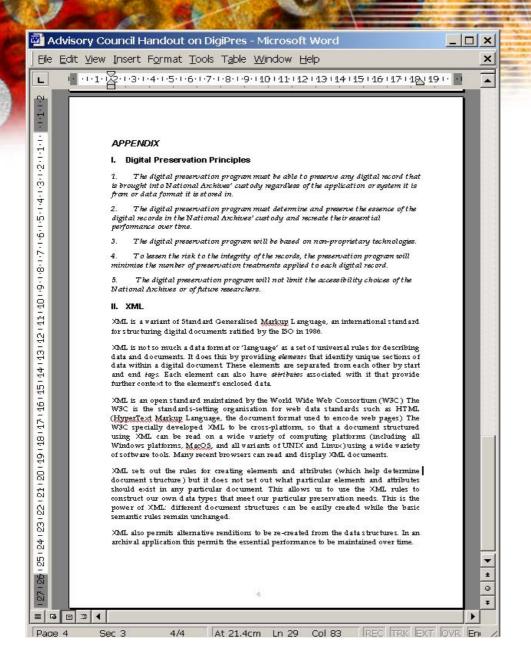


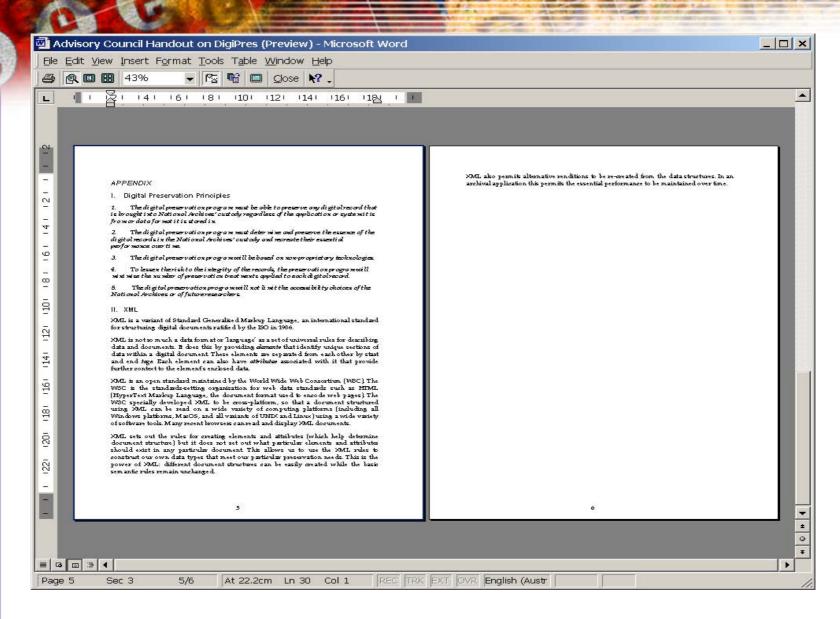
Determine the essential aspects of the performance

The essence of the record

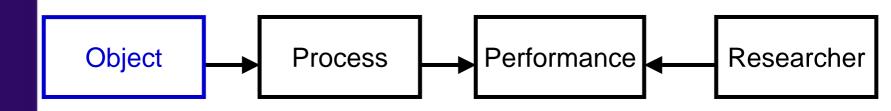
The 'essence' of the record

- what we want to preserve out of the performance
 - what aspects are essential to the record's value?
 - what aspects are incidental to the record's value?
- consider census records
 - microfilm copies capture the essence of the census return so no need to keep originals





2. What format?

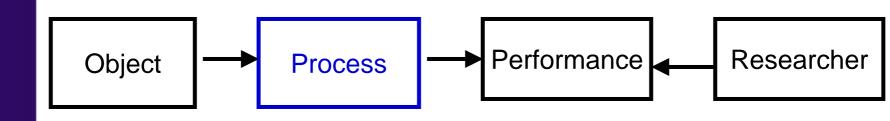


Normalise into open, fully documented data formats that can represent that essence Formats based on XML



- don't try to preserve the original process at all
- develop our own processes using open public-domain standards
- commit to maintain those processes over time
- one-off conversion of the source to suit *our* processes
- we set our own preservation platform
 - Not reacting to others
- aids authenticity by not changing the master regularly

3. What tool?



Acquire technologies to manage those formats

Our tool: Xena

Xena

- our tool for preserving the 'essential performances'
- it normalises data objects and...
- ...it re-presents performances
- written in Java
 - Windows, Linux, Mac OS X
- open under the GPL
- latest at: sourceforge.net/projects/xena/



(xml electronic normalising of archives)





The core consists of:

- I. graphical user interface components
- II. plug-in management components
- III. generic validation components

XENA plug-ins

Plug-ins are created for identified data types that are to be processed. Each plug-in includes:

- guesser component
- one or more input format type components
- normalised format type (xml schema)
- one or more normalisation modules
- one or more view components
- validation functionality

A 'xena'd' object

Metadata **Content** Normalised Object **Checksum**

What the Xena normalisation process produces: a wrapped object



