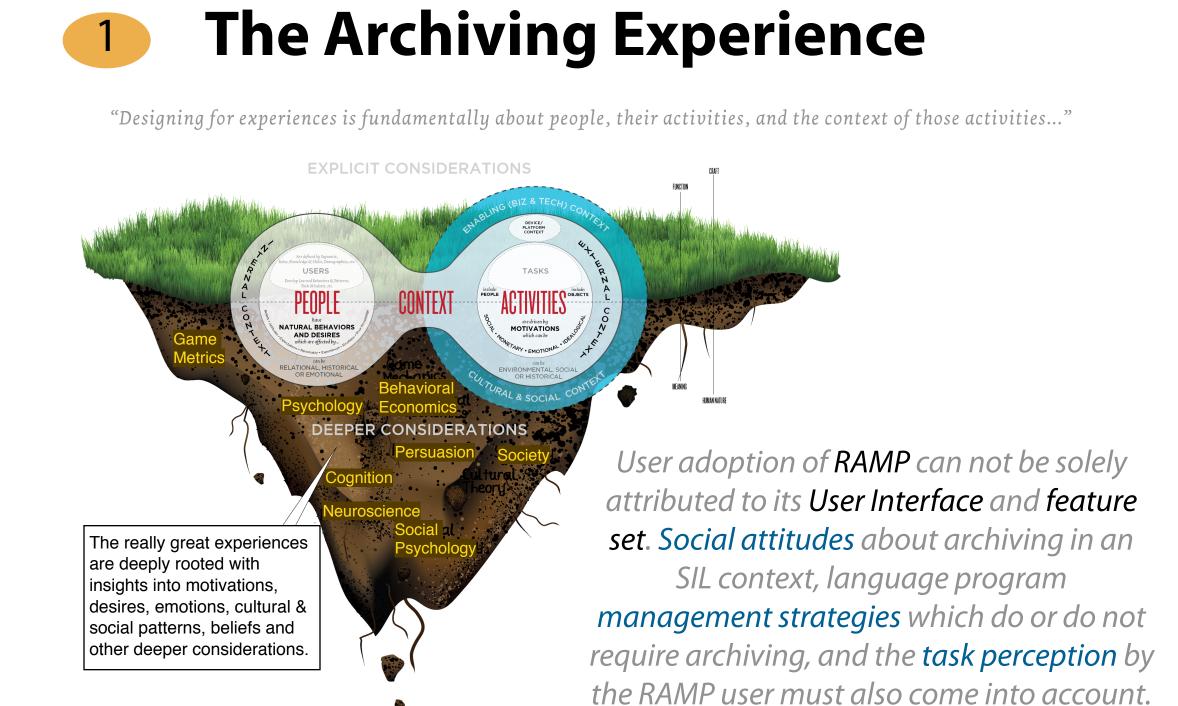


Diagram by Stephen P. Anderson

Challenges of implementing a tool to extract metadata from linguists: The use case of RAMP

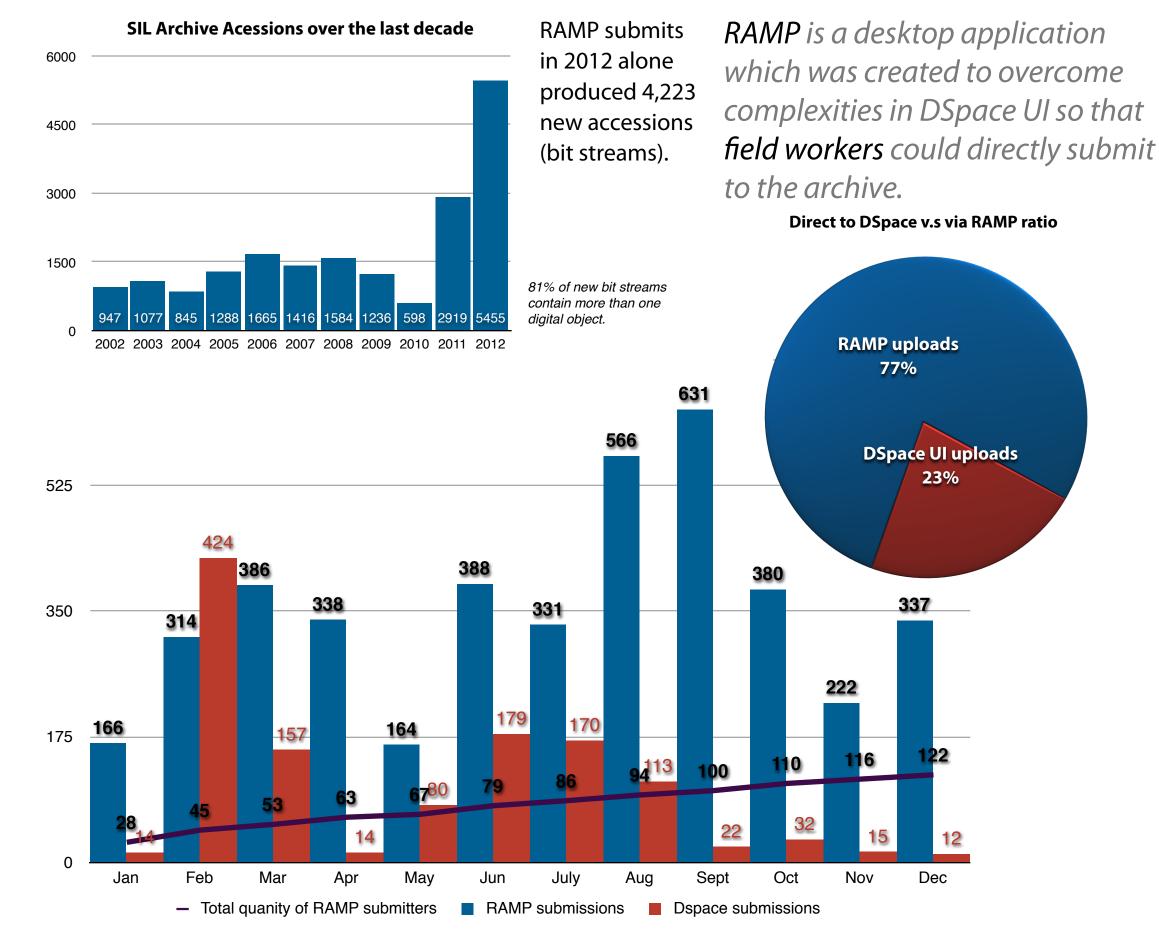


Hugh Paterson III & Jeremy Nordmoe

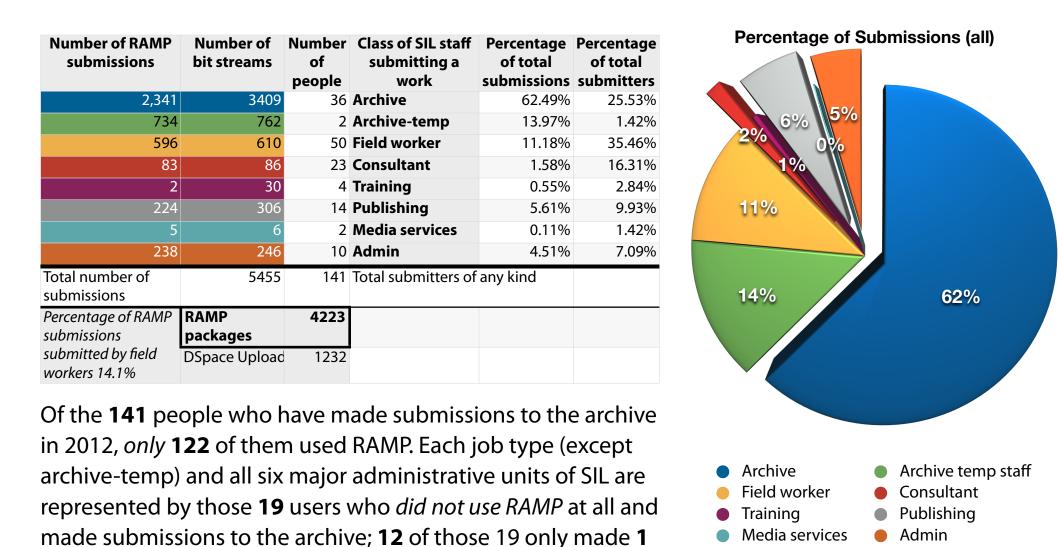


The RAMP "effect"

Prior accession rates over the last 10 years have averaged between 1,500 and 2,000 items per year.



RAMP contributed an increased capacity (200%) to accession materials, but was it equally successful in reaching its intended audience?



78% of all submissions to the archive in 2012 were made by SIL staff with a specific role in archiving.

- In 2012: • 2.3% of all SIL staff globally made RAMP submissions
- 3.5% of language development staff with roles in active projects made submissions via RAMP
- Repeat DSpace submitters, who have never used RAMP tend to be in publishing roles.

Based on the population of SIL staff working in language projects, it is not unreasonable to expect the user base of RAMP to exceed 2000 unique users per year.

Of the 122 RAMP submitters in 2012, 36 of them did not use DSpace and also only submitted one item. - 30% of RAMP users chose not to use the software again (having never compared it with DSpace).

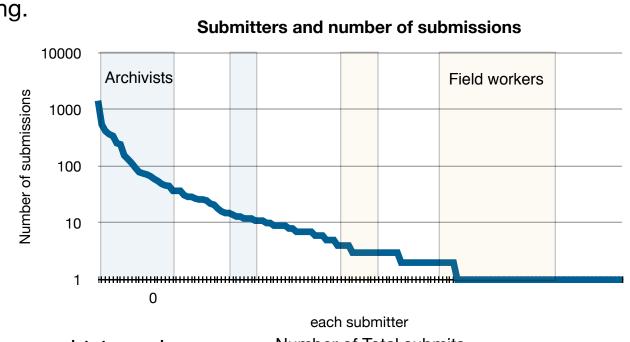
Of the 36 users:

DSpace submission.

- 12 were submitting objects on which they were not contributors, e.g. not author, not composer
- 12 continued to submit materials to the archive, but chose to do so though another person, or via a non-digital means. • 6 individuals who had previously submitted items to the archive through another person, or non-
- digital means, chose to attempt to use RAMP, but had no desire to continue to use RAMP (or possibly further opportunity to use RAMP, the archive does not know).

8 of the top 10 RAMP users have a role in archiving.

Of the non-single use submitters, 38% (32 users), had an archiving role. If persons with a publishing role are added then it goes to 45% (39 users).



The DSpace "effect"

which result in archiving.

Of the 37 DSpace submitters in 2012, 13 of them have an archiving role. Number of Total submits - 60% of DSpace submitters are non-archivists.

This stands in contrast to all 141 submitters, of whom 38 have an archiving role and 13 of these used DSpace. - 60% of SIL archivists don't use DSpace for submissions.

Of the top 12 repeat DSpace submitters, 10 of them have roles in archiving or publishing. Others were, 1 each: training, and fieldworker. - Those SIL archivists who use DSpace use it a lot (or for batches).

For 12 DSpace submitters (none of whom have an archiving role), the DSpace experience was the only digital interaction with the archive that they had in 2012 (they were non-RAMP users). All of these users only contributed once. They were all contributing their own content.

- 4 of these 12 would go on to contribute materials to the archive via another method (non-digitally, or through another individual submitting the content). But again not as a user of any digital system for archiving with SIL.
- 5 of these 12 had already submitted something to the archive either through another individual or through non-digital means when they tried DSpace for the first time. They have a belief that archiving is important, or their works are in corporate publishing workflows

Social Attitudes of Linguists

Nordmoe (2011) claims that archiving meta-schemas remain too complex for linguists... We find this objection un-grounded coming from linguists who devise meta-schemas for for describing language... (Though we make no claim that any schema is innate).

(Oral or written

Database organizing and

.e. Lexemes, Sentences,

holding examples of

audio or video or

Linguists use a variety of complex metadata schemas during their working day - though some linguists may be unaware of them. The user experience challenge for archivists is: can archivists access these data at the point of first use?

Other attitudes encountered: • The archiving institution:

- Confusion about the organizational structure of the archiving institution Opinions that archiving should only take place in the country where the language is I have heard a linguist say "I hate Metadata". For a linguist to value the archive more more than discovery metadata must be exposed about the data in the archive • The I don't care attitude: "I'll just turn it over to the archive to do whatever they do

From when do these items come?

Media Meta-data

604 items archived in 2012 are known to have been created or published in 2012.

- SIL has nearly 80 years of history working with minority language communities. About 1 million relevant non-digital objects are
- estimated to exists in SIL networks. About 50 million relevant digital objects are

estimated to exist in SIL networks.

attitude: archiving is my last task before death?

Are items being accessioned in appropriate amounts of time? Or, do linguists retain the

Archived Items in 2012 with a creation or issue date 1,500 **1,42** 1,000

Next »

questions XML, PDF, etc.

Academic & Scientific Output

PDF of journal articles sources available about

Citation Meta-data

Task perception

Linguist: How does RAMP relate to my

keep the promises I made for

the mood for the entire interaction.

0000000000000

Specify the use of this file (or zipped set of files)

Meaningful

Pleasurable An experience worth sharing

Convenient

Works exactly like you think

Usable

Can be used without difficulty

Reliable

Always available and accurate

Functional (Useful)

Works as programmed

Tasks (Objective/Quantifiable)

s personal significance

Electronic Files

funding?

submitter has.

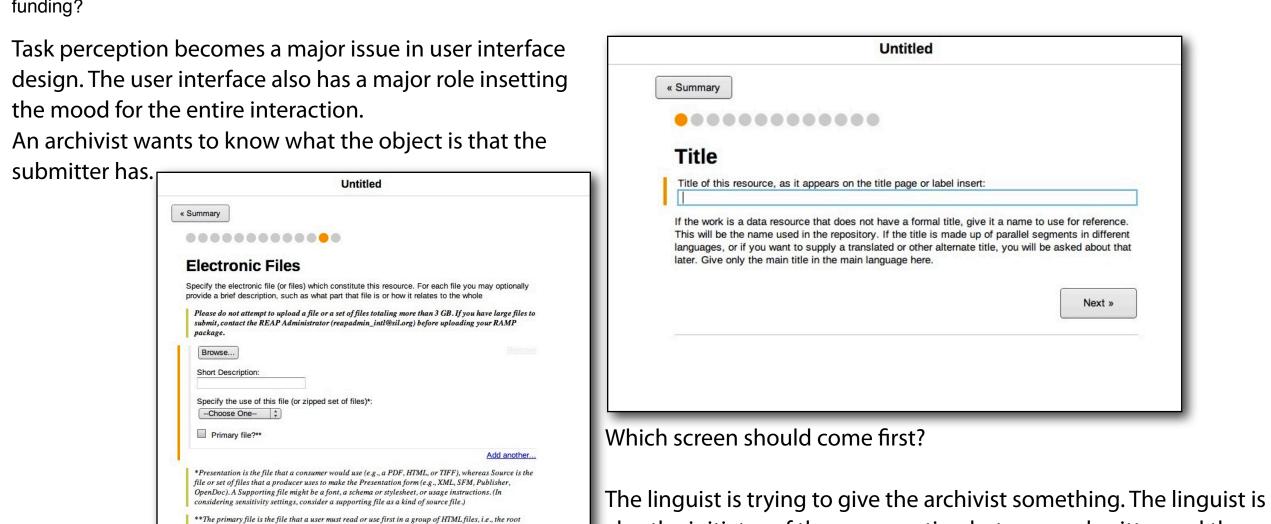
other data in my workflow?

How does RAMP tell me what the item is so that I know which "shelf" to put it on? How does RAMP enable me to

Next »

Archivist:

The perception of where RAMP is situated in the entire eco-system is foundational to widespread user adoption.



meaningful experiences.

also the initiator of the conversation between submitter and the archivist. "Emotion and cognition conjointly and equally contribute to the control of thought and behavior." (Gray 2002) Often the design of

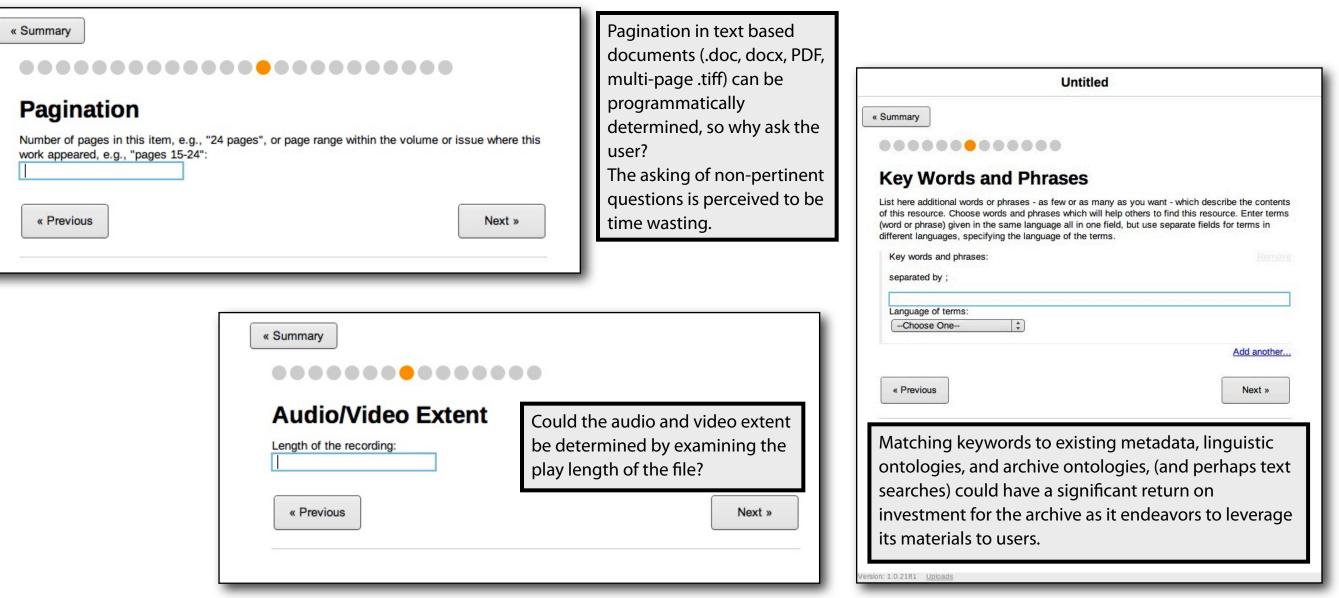
linguistics based software is focused on specific tasks, not creating

Does RAMP cross the chasm and become meaningful to its users? If it did, would we expect to see lateral spread (peer to peer) in the user group, rather than organizational tree based spread?

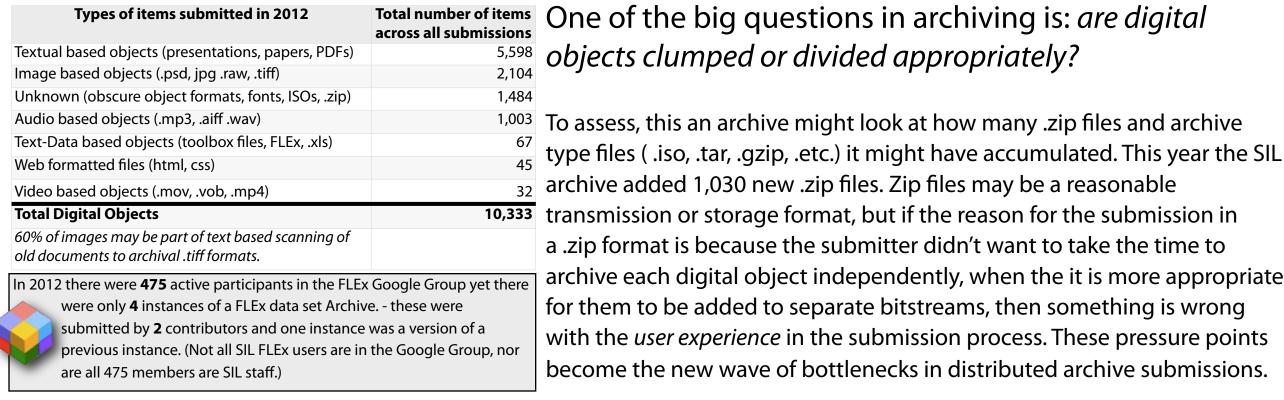
What is the emotional impact on the RAMP user's attitudes towards archiving? Is it the meta-schema which is too difficult or is it the relationship through the software? - To the RAMP user, is the experience worth repeating and telling their friends about?

Working with existing metadata

Most media files have metadata of some kind embedded in them. Working with this metadata (and allowing the user to verify it) rather than completely ignoring it would save the user effort, and in some cases time. The perceived gain would make the user appreciate the software more. They feel like they have to answer fewer useless or obviously answered questions. But these questions are and can be pertinent in accessions of non-digital objects.



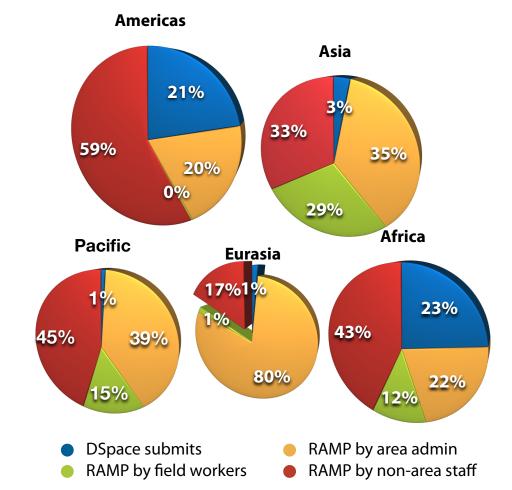
What kinds of digital objects are being submitted?

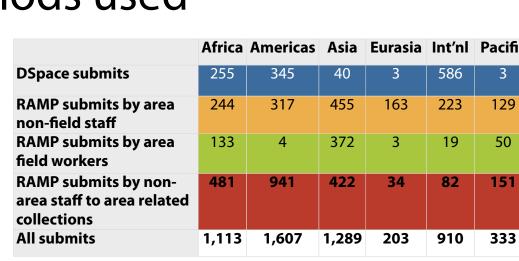


Another way to assess clumping and dividing is through relationships like: X has part Y or Y is a part of X. 1,821 of the items added in 2012 have relationships to other items in the archive.

Management Strategies

Submission methods used





Each administrative area of SIL has different strategies for archiving content. These management strategies affect which tools are presented to various sets of linguists and therefore also who does the work related to submission to the archive. Roughly speaking, higher rates of RAMP usage mean that the area staff is more self-sufficient in

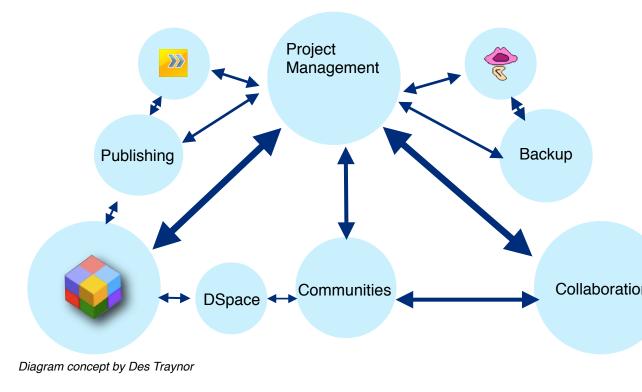
terms of submission to the archive. Compare

Percentage of RAMP usage by management region measured off of the

Yellow/Green to Red/Blue.

Though Americas Area leads SIL in total contributions to the archive, it also leads the areas in not encouraging its field workers to submit content directly to the archive via RAMP.

The tool or the fit



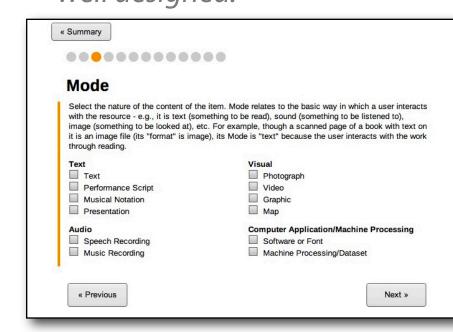
The **tool** is simply a component of the eco-system designed to involve users in a particular experience.

In user experience analysis we must be careful to not attribute faults of the tool to the fit, and vice versa.

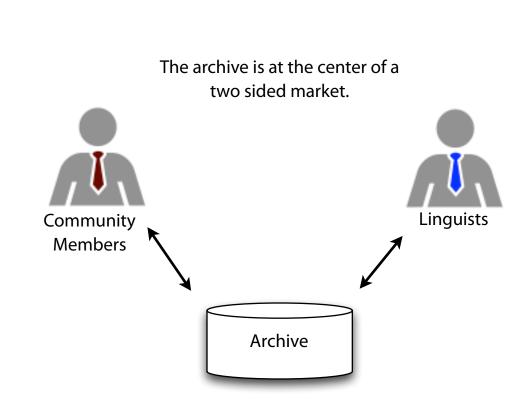
Because of the organizational economics of archiving, there is relatively little return on investment for linguists to archive.

Fit is the way that a tool interacts with the entire eco-system. Fit is not just the relationship of the tool to any other part of the eco-system, but also it is how the entire system breaths together to create needs and solutions for users. Pressures or benefits in one part of the system can drive users to use the tool less or more.

Inappropriate feel in the User Interface or insufficient detail to features can lead to bad report for a tool. Insufficient detail to the overall economy of the larger eco-system can lead to abandonment of the tool, even if it is well designed.



Archives, a dispensable service



In SIL the challenge for the archive is to

prove its worth to several different user

groups.

users. The more it can convince each group of its value, the more valued it becomes in the eco-system. Unlike most two sided markets (Parker & Van Alstyne 2000), the interaction over content (almost

exclusively) happens asynchronously.

The core business of any archive is the marketing of

its relevance, often via content promotion and

curation services, to both submitters and content

• Do language projects and programs, or future programs in the same language community benefit • Are there other ways for SIL projects to disseminate developed resources? Are these methods

direct or indirect competitors to motivating factors for linguists to archive?

· Does the linguist even need the archive? (Assuming that the linguist's only need to archive was to share files with colleagues, and Dropbox works, meeting present needs more efficiently.) · Does the archive and the content it houses, serve the linguist, the archiving institution, or the various political interests of the communities? Who is the direct customer and who is the

· Who is the one who manages the relationship between the archiving institution and the language



• The challenge is not creating a tool, but rather a tool which fits the frame of reference of linguists and monopolizes on metadata created by linguists at the time of object use or object creation.

• Archives have relatively little that persuades linguists to archive; this power resides with the project funders. (But even then, there is often no way to revoke funding if the project is not archived.)

• Archives have the power to entice linguists to submit data, but the power of this enticement resides with user interaction design.

• The current user group of RAMP is not the primary intended user group. But the SIL archive is happy to see an increase in accessions.

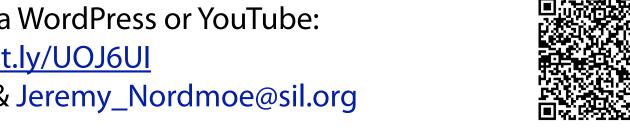
•RAMP has seen uptake in use by archivists but not by field linguists. Archivists are happy to answer the questions asked by the application. RAMP has not seen wide adoption by field linguists. This is either because field linguists don't see the value in archiving, or the time required to use the application is not justified for furthering the linguist's ends.

•There is no significant return on investment for time spent to archive materials in the current fit between language program execution and the activity of submitting materials to the archive. Archiving via RAMP is still perceived as an end of project task.

• There is a high degree of probability that the DSpace UI dissuades non-publishing staff and non-archivists from using it for submissions.

• There is also evidence that the RAMP interface may also be having a dissuading effect among field linguists, but the statistical evidence is inconclusive. •In SIL, implementations of archiving policy very greatly.

Comments invited via WordPress or YouTube: http://bit.ly/UOJ6UI





Anderson, Stephen P. 2009. Fundamentals of Experience Design (Poster). < Accessed: 18 February 2013 > http://www.poetpainter.com/thoughts/files/Fundamentals-of-Experience-Anderson, Stephen P. 2011. Seductive interaction design: creating playful, fun, and effective user experiences. Berkeley, CA: New Riders. Gray, Jeremy R., Todd S. Braver & Marcus E. Raichle. 2002. Integration of emotion and cognition in the lateral prefrontal cortex. Proceedings of the National Academy of Sciences 99.6:

4115-20. http://www.pnas.org/content/99/6/4115.abstract Nash, Douglas. 2012. Businessperson. The Noun Project. Nordmoe, Jeremy. 2011. Introducing RAMP: an application for packaging metadata and resources offline for submission to an institutional repository. In Proceedings of Workshop on Language Documentation & Archiving 18 November 2011 at SOAS, London. Edited by: David Nathan. p. 27-32. <Accessed: 18 February 2013 > http://www.sil.org/acpub/

Parker, Geoffrey & Marshall W. Van Alstyne. 2000. Information Complements, Substitutes, and Strategic Product Design (November 8, 2000). Available at SSRN: http://ssrn.com/ abstract=249585 or http://dx.doi.org/10.2139/ssrn.249585 Traynor, Des. 16 January 2012. Copy the Fit, not the Features. <Accessed: 18 February 2013>. http://blog.intercom.io/copy-the-fit-not-the-features/

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References

Paterson, Hugh J, III and Jeremy Nordmoe. 2013. Challenges of implementing a tool to extract metadata from linguists: The use case of RAMP. Poster presented at 3rd International Conference on Language Documentation and Conservation, at the University of Hawai'i Mānoa, Honolulu, HI. February 28 -March 3rd. Version 1.4



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