Dynamic presentation of research results on web pages
Karin Kastens, Jacquelijn Ringersma, Jos van Berkum
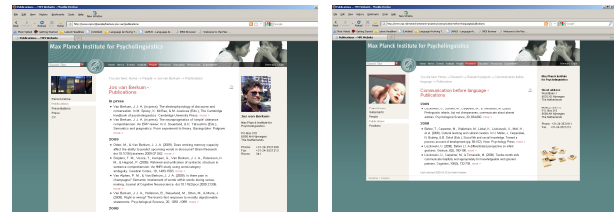
Introduction

Scholars report and document their work in the form of publications. Scientific libraries and electronic journal portals are central access points via which research results can be accessed.

The need for alternative web-based information channels is steadily growing. Individual scientists want to present their work in the form of publication lists on personal web pages where Open Access is a major objective. Such 'on-line portfolios' are becoming increasingly important for research projects, groups, and entire institutes.

A major problem is that web-based presentation and information management solutions are often adopted locally, on an ad-hoc basis. Individual researchers have little time to develop standardized policies and basic quality control on citations is lacking. The lack of persistence of data made available via the web is a major problem. A final and in our opinion critical problem is that even if primary data and other supplementary information is stored persistently, information pertaining to a single piece of research may be scattered across different databases.
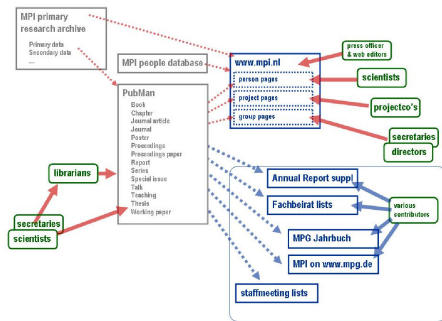
Renewing the MPI-PL web site

In April 2009 we launched a new website for the Max Planck Institute for Psycholinguistics (MPI-PL), for which we developed a principled solution to dynamically render all relevant data around a publication into publication and presentation lists on different levels of the website.

Publication list on person page / project page
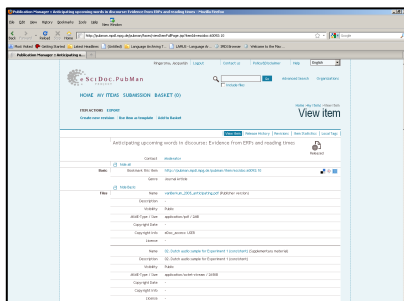
Information flow

PubMan

Publication data is stored in the PubMan repository. PubMan supports institutes of the MPS in the sustainable management of their publications. These are described with a rich metadata set. The full texts of the publications plus their supplementary material can be uploaded to PubMan, specifying restricted or Open Access. PubMan items have persistent identifiers.
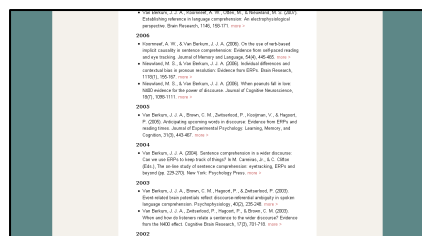
MPI primary research data archive

Primary data is stored in the MPI-PL research data archive. Resources are described with the IMDI metadata set, have persistent identifiers, and can be retrieved via a browser. Access rights to resources can be specified for individuals or groups.

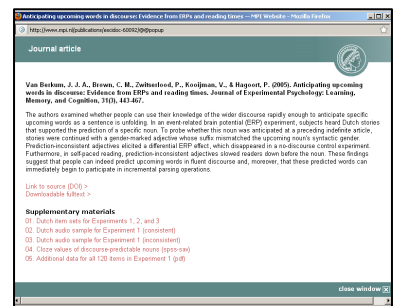## From complex PubMan items to publication lists on the MPI-PL website

1. The website's Content Management System (CMS) harvests from the PubMan database the metadata for the publications of the institute through a REST interface. A search query is sent to the MPDL server and an XML file containing the publication metadata is returned to the web server.
2. For each publication the PubMan metadata is stored in a unique item in a Publication Folder.
3. Each researcher and each research group or research project have a set of folders on the website; one of these is to display publication lists.
4. On the publication page, the researcher can perform a query based on criteria which are derived from the PubMan metadata (e.g. author name, publication type), and the result of the query is presented in an APA formatted list of the publications which match the criteria. Lists can be displayed by year or by publication type or by a combination of these.
5. From the list, a more > link opens a pop-up window, with an APA styled citation, an abstract, a link to the full text and a link to supplementary material related to the publication. This supplementary material may be stored in the either in PubMan (pdfs) or MPI-PL research data archive (audio, videofiles).

Publication in PubMan

Publication list on website

Publication pop-up with links to full text plus supplementary material