Collaboration: eLife and EMBL-EBI

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Literature Services

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There are three significant ways that EBI and eLife have collaborated through xPub.

Ideas  Software  Data
EuropePMC, eLife and xPub

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Europe PMC

- Partnered with PubMed Central USA
- Named repository for 29 Funders

Access more content

Abstracts
34.7 million, 29 million from PubMed

Patents
4.2 million

Agricola records
698,370

NHS guidelines
863

Preprints
53,137

Full text articles
5 million

Single search interface

PubMed
Abstract

PMC
Full text

Europe PMC
Abstract

Full text

+ APIs
Powerful search based on rich metadata
Maximizing reuse of research

- Europe PMC is an open community platform
- Specialist scientific knowledge allows rich services and community engagement
- European science context
How content gets into Europe PMC

- Over 90% from journals
  - Full participation
  - Selective deposit
- Author deposition
  - Accepted manuscripts
  - Submission system
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Helping scientists accelerate discovery by operating a platform for research communication that encourages and recognises the most responsible behaviours in science.
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The xPub Community

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Automate submission and peer review

xPub, a submission and peer review platform from eLife: https://github.com/elifesciences/elife-xpub/
Automate authoring, proofing and editing

Texture, a toolset designed for the production of scientific content:
https://github.com/substance/texture
Sharing ideas

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RFC: Community and Code Basics #2

**Problem**

We need to define some basic processes and conventions early so that engagement in the community and code is easier. We have learned a lot from helping people reuse software at eLife but also from our work with Hindawi, YLD, ThingSlices and the Colbo Foundation on our other products. We propose the following as a starting point based on the output of a team session here at eLife. Feedback welcomed.

**Suggestion**

**Basics**

- **Libero** is the name of the platform of applications, tools and services
- Individual components, applications, tools and services will have their own name that is descriptive and relevant to the solution they are providing
- The name [continue] is no longer in use
- Libero and some eLife specific applications power eLife’s Journal
- Libero will be composed of parts of the existing system that powers eLife’s Journal along with new components and changed versions of those existing components
- Libero is a suite of defined interfaces, libraries and applications. The applications are built from the set of interfaces, libraries and applications.
Context

In a service-based architecture, each service needs to update its data by importing it from another service.

A many-to-many mesh of remote calls can quickly create a tight network of dependencies between services. Services should be able to be isolated from each other for ease of testing and experimentation.

Portability across cloud providers and hosting services, and easy of deployment, are key concerns for any middleware used by services to communicate.

Standards like the AMQP 0.9.1 specification or abstraction layer libraries do not fully provide reliable delivery from the producer to the consumer.

Decision

Setup a bus delivering events produced by a service A to any other interested service B, C.

Use RabbitMQ and the following features:

- durable exchanges and queues (AMQP 0.9.1)
- persistent messages (AMQP 0.9.1)
- consumer acknowledgements (AMQP 0.9.1)
- producer confirms (RabbitMQ extension to the protocol)

Use the following libraries for the supported programming languages:

- PHP: amqplib
- Python: pika

For each supported programming language, build event bus SDKs wrapping the libraries and providing null or testing adapters.

Consequences

RabbitMQ is a dependency for most of the projects to produce or consume events, but it can be provided as a Docker container.
Adam Hyde - https://www.adamhyde.net/day-2-pubsweet-meet/
Sharing software

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Pre-fill my details using ORCID

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Manuscript title

From Chaos to Kanban, via Scrum

Article type

Research Article

Subject areas

Cancer Biology

This manuscript has been discussed with an eLife editor

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This manuscript is part of a co-submission

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2 more suggestions required
Sharing data

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Can you guess...?
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Fuzzy match
CV model qualitative results

**Prediction (actual)**

**Target (expected)**

**Input (PDF page)**

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¿y como generamos XML?

Semantic Extraction Working Group

+ algunos otros
PAUL SHANNON
Head of Technology
@BlueReZZ