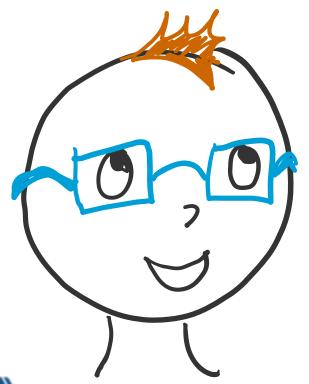


EXPLORING SOFTWARE CITATION

THE NATIONAL LIBRARY OF MEDICINE

with Alex Sticco Kelly

THE ORIGIN OF THIS PROJECT



We need someplace we can list and search the software projects that are produced by our hackathons.





THE ORIGIN OF THIS PROJECT



We need someplace we can list and search

ALL THE BIOMEDICAL SOFTWARE!

Like PubMed!

But for code!

PUBCODE











i About

□ Software Policy

■ News/Resources

? FAOs

DOE CODE / Search Results / Virtual Machine Builder

Virtual Machine Builder

Full Project

RESOURCE

Publicly Accessible Repository ? https://github.com/csd-devtools/VmBuilder

DOI: 10.11578/dc.20171025.1946

SAVE / SHARE

Export Metadata >









Abstract

Virtual Machine Builder is a graphical user interface for use and modification of virtual machine templates using Hashi Corp packer to perform virtual machine creation.

Developers:

Nielsen, Roy [1]

Show Author Affiliations

Release Date: 2017-04-26

Project Type: Open Source, Publicly Available Repository

Software Type Scientific

Licenses:

GNIT General Public License v2.0

Licenses: GNU General Public License v2.0

Sponsoring Organizations: USDOE

Primary Award/Contract Number: AC52-06NA25396

Code ID: 5289

Site Accesion Number: 7476

Research Organizations: Los Alamos National Laboratory (LANL), Los Alamos, NM (United States)

Country of Origin: United States

Citation Formats

MLA APA Chicago BibTex

Nielsen, Roy. Virtual Machine Builder. Computer Software. https://github.com/csd-dev-tools/VmBuilder. USDOE. 26 Apr. 2017. Web. doi:10.11578/dc.20171025.1946.

Copy to clipboard

THE ORIGIN OF THIS PROJECT





SOME RELEVANT NLM PRODUCTS

MEDLINE: NLM's selected journal citation database.

- Journals are approved by LSTRC
- Articles are curated by indexers to add subject headings and other information

PubMed: NLM's expanded journal citation database, plus user interface

Contains all of MEDLINE, plus additional citations

PubMed Central (PMC): NLM's archive of open-access, full-text articles

- participating MEDLINE journals
- non-MEDLINE journals approved by a PMC review board
- all NIH-funded articles must be deposited here



POSSIBLE AREAS OF INFLUENCE

- Encouraging best practices in software citation
 - Enabling explicit software citations in Pubmed and PMC XML
 - Encouraging software citation policy adoption
 - Encouraging software paper publishing?
- Facilitating software tracking and reporting for grants
 - Issuing an ID/ID set
 - Interface with reporting systems

ENCOURAGING BEST PRACTICES IN SOFTWARE CITATION

- Enabling explicit software citations
 - Waiting on JATS4R recommendation
 - It will still be up to the publisher to correctly tag this information

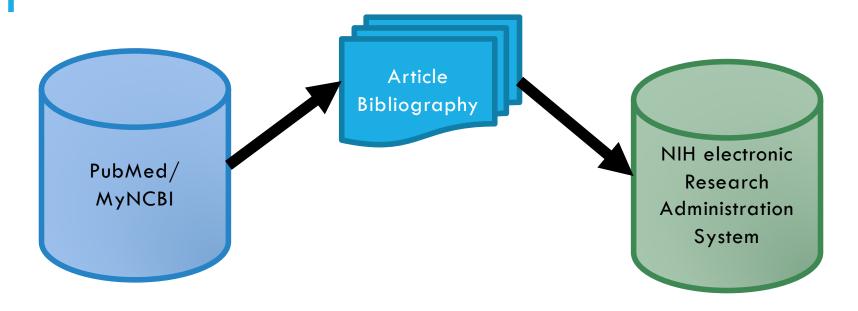
WORKING WITH JOURNALS ON EDITORIAL POLICY

- Encouraging software citation policy adoption
 - Editors are waiting to hear what we all endorse
 - Cite both the paper and the software?
- Encouraging software paper publishing?
 - Would we further entrench the "bad" indirect way to cite software?
 - Will this be a short-lived work-around that just creates more confusion later?

FACILITATING BETTER, EASIER SOFTWARE REPORTING

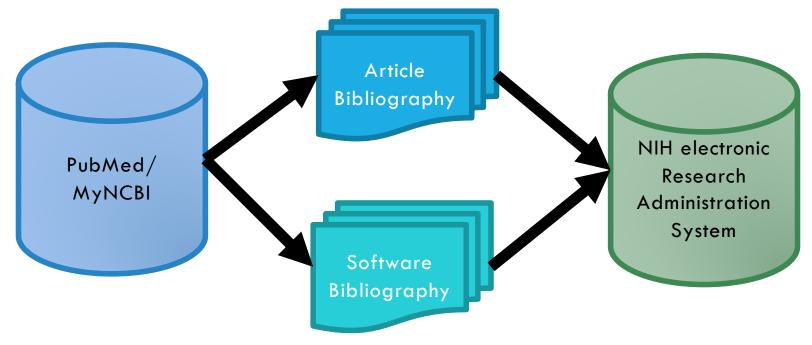
- Current NIH Grant Reporting for Software
 - Free text for "other outputs"
 - Signaled to be of little importance relative to articles
- Better Reporting
 - Collecting software metadata to accompany software articles
 - Interface with reporting systems to submit software bibliographies

REPORTING WORKFLOW

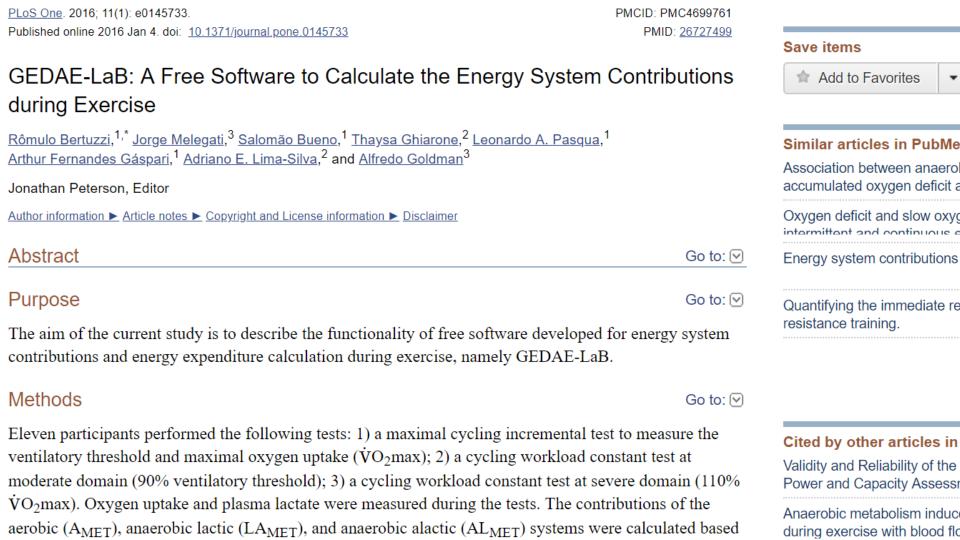




REPORTING WORKFLOW







MINIMUM USEFUL METADATA

Grant Number: R01blahblah

PMIDs:

4003893

***** 5387929

* 6326503

7303572

DISPLAY DATA ON PM/PMC: PROS AND CONS

Pros

- High Visibility
- Could redirect citations from papers to software
- Easier/Cheaper
- PMC willing to experiment

Cons

- Unlikely to display much info
- Versioning may be hard to display
- PubMed reluctant to add things (everyone wants their new thing to be in PubMed)

DISCUSSION

- Initial responses?
- * What else could NLM do to further the goals of this working group?