



VISIONS FOR THE FUTURE

ReproZip

Packing Experiments for Sharing and Publication

Fernando Chirigati, Juliana Freire | NYU-Poly

Dennis Shasha | NYU

Reproducibility

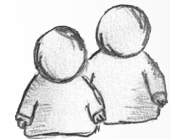
- How to allow computational reproducibility!?
- It is **difficult** to achieve in most cases



Author

How to encapsulate my experiment?
Too many dependencies...
Too many files to keep track...
Sigh.

How to compile this program?
How to execute it?
How to *explore* it?
Sigh.

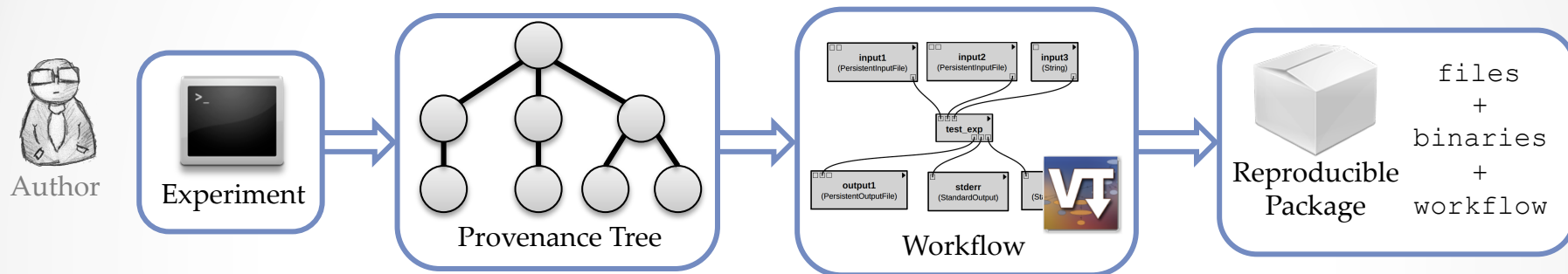


Reviewers
Collaborators
Readers

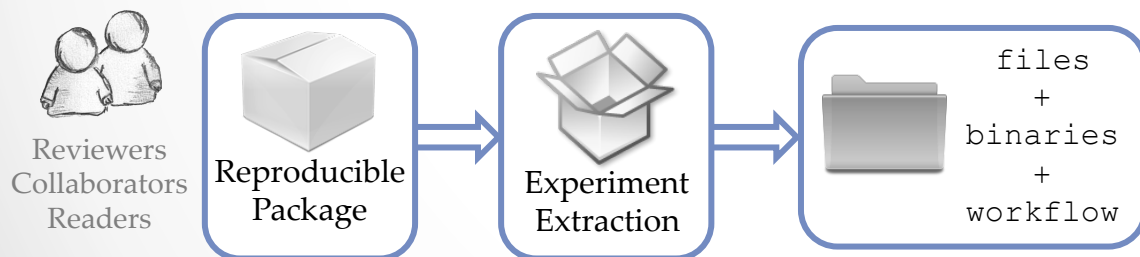
- Some current solutions require the user to adopt a system
 - e.g.: scientific workflow systems
- Other solutions rely on capturing information about the computational environment
 - e.g.: virtual machines

ReproZip to the rescue!

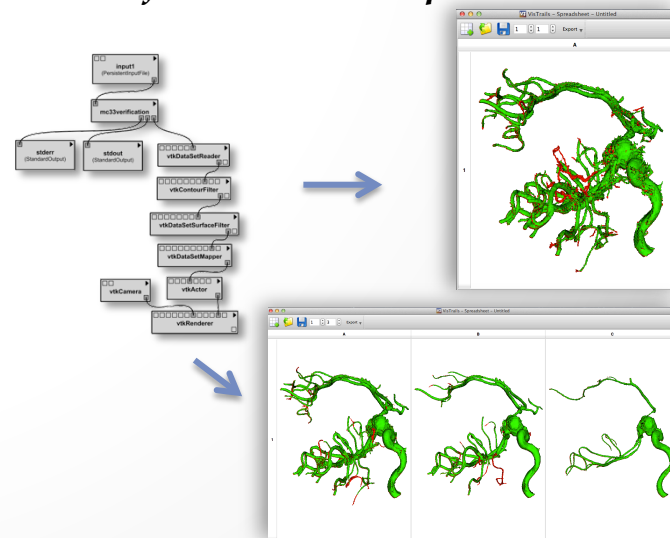
packing (on environment E)



unpacking (on environment E' – compatible w/ E)



verification and exploration



Packing Experiments for Sharing and Publication, F. Chirigati, D. Shasha and J. Freire. SIGMOD'13 Demo Session, New York, NY, USA, 2013 – To be presented

ReproZip: Using Provenance to Support Computational Reproducibility, F. Chirigati, D. Shasha and J. Freire. 5th USENIX conference on Theory and Practice of Provenance (TaPP'13), Lombard, IL, USA, 2013 – To be presented

Thank You!

Fernando Chirigati

fchirigati@nyu.edu

<http://vgc.poly.edu/~fchirigati>