ReproZip
Packing Experiments for Sharing and Publication

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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

Fernando Chirigati – NYU-Poly
ReproZip to the rescue!

packing (on environment E)

Author
Experiment
Provenance Tree
Workflow
Reproducible Package
files + binaries + workflow

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

Reviewers
Collaborators
Readers
Reproducible Package
Experiment Extraction
files + binaries + workflow

verification and exploration

Fernando Chirigati – NYU-Poly
Thank You!

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