My Christmas List for Reproducibility

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Tools and Infrastructure

software identifier

DOI-like system for software, vendor-independent always pointing to the current location of the code

open data storage

until every journal stores supp. materials more reliable than home page storage

Standards

cross-library APIs

we need to be able to replace one broken library by another

 \rightarrow need an interface and spec common to multiple implementations

 programming language specs prog. lang. defined by the current implementation will eventualy break

 \rightarrow need a formal and stable spec of the language

 software quality test tools and services guide code authors to improvements reduce the workload for referees

Copyright and Patents

paper vs. software

paper for human, software for computer \rightarrow should have the same copyright status

no patent restriction for research

patent system is supposed to stimulate innovation implementation is the translation of information already public in the patent application

 \rightarrow should not be prevented from releasing the code