Reproducing Research on Cooperation

Vince: @drvinceknight
Software
Sustainability Institute
Excel: Why using Microsoft's tool caused Covid-19 results to be lost

By Leo Kelion
Technology desk editor

5 October 2020
Kirsty MacLeod
@kirstyjean

Me: sets up flawless heat competition trial, lizards will fight over hot podium, there can only be one winner!
Lizards:

#ALlizards2017
Me: sets up flawless heat competition trial, lizards will fight over hot podium, there can only be one winner!
Lizards:

#ALlizards2017
tournament.py
player.py

strategies/
  Cooperator.py
  Defector.py
  TitForTat.py
  ...

doc/
readthedocs.org

travis.ci
tests/unit/
  TestCoop...
  TestDef...
  TestTitFor...
  ...

(Slide used at PyCon 2015)
Ambiguous description

⇒

Clear results
Robert Axelrod

Re: Source code for original strategies

To: Vincent Knight,  Cc: axelrod-python@googlegroups.com

This message is from a mailing list.

I don’t have the first round. But the second round is on-line.

Best of success with your library.
FUNCTION K92R(J,M,K,L,R, JA)
C BY ANATOL RAPOPORT
C TYPED BY AX 3/27/79 (SAME AS ROUND ONE TIT FOR TAT)
c replaced by actual code, Ax 7/27/93
C T=0
C K92R=ITFTR(J,M,K,L,T,R)
   k92r=0
   k92r = j
C test 7/30
C write(6,77) j, k92r
c77 format( ' test k92r. j,k92r: ', 2i3)
   RETURN
END
Compute

**FUNCTION**

- **J**: Opponent’s previous move
- **M**: Turn number
- **K**: Player’s score
- **L**: Opponent’s score
- **R**: Random number
- **JA**: Player’s previous move
Available code

⇒

Exact results
You can download our code from the URL supplied. Good luck downloading the only postdoc who can get it to run, though

#overlyhonestmethods
What do we do?
What do we do?
The thing to take away from this whole panicked GitHub (backed by one of the largest software companies in the world) to GitLab (VC funded startup) exodus: you should be putting your code into long term archival like @ZENODO_ORG if you care about it being available.

9:10 PM - 5 Jun 2018
Finally, they use @opentimestamps to submit hashes of the manuscript and source #Git commit to the #Bitcoin #Blockchain. These timestamps are immutable and irrefutable proof that the specified version of the manuscript existed at the specified time.
4/4

5:57 PM - 15 May 2018
Heeding some of your suggestions about version control issues, I've just tried installing git.

I can't help but feel that it is designed to be borderline inaccessible so that people who do use it can be smug.
Technology

Culture
Software Sustainability Institute

https://www.software.ac.uk/
http://joss.theoj.org/
Modularity makes possible, and test failures become more meaningful in context, and therefore helps identify components. Testing checks modules individually and together, and confirms the expected outcome. Documentation increases accuracy and clarifies purpose, and indicates expected outcome.
For example...
Some conclusions
Code should (verifiably) do what you think it does.
Open code makes for better research.
And I really wanted to thank you all, I discovered your project because of a course where we needed to participate in an open source project, and I had the occasion to compare the welcome me and my coworkers received here compared to other people from my class who worked on different project. And I’ve got to said you are awesome on that part and on the help your provide to newbies  I like your project so I’ll try to continue to contribute now and then!