Thank you for your interest in our survey. We are seeking feedback from researchers in the Computational Biology community on their practices with sharing computer code generated during their research and their views on a prototype interactive notebook created in collaboration with NeuroLibre.

ABOUT THE SURVEY

At the start of the survey you will be asked to look at a prototype interactive code notebook for approximately 5 minutes. You will then be asked questions about your own code practices and the prototype notebook you have looked at.

The survey questions should take less than 10 minutes to complete.

Your participation in this survey is completely voluntary, and you are free to withdraw from the study at any time until you submit the survey. Answers will never be associated with individual participants and the results will only be analyzed in aggregate.

If you have any questions about the survey, please contact Lauren Cadwallader or PLOS Computational Biology.

ABOUT PLOS

PLOS is a nonprofit, Open Access publisher empowering researchers to transform science. Find out more about PLOS.

DO YOU KNOW SOMEBODY WHO MIGHT WANT TO PARTICIPATE?

If you know someone who would be interested in participating in this study, please feel free to pass on the link to this survey!

Before you start

Before completing this survey, please take a few minutes to look at this prototype interactive code notebook.

Please look at the notebook as if you are interested in the paper and its associated code. We would like you to look at two or more figures and please explore any features or parts of the notebook that you want to.

About you

1. Have you published in PLOS Computational Biology? *

- O Yes
- O No

2. Where are you located?*

Afghanistan	
Albania	
Algeria	
Andorra	
Angola	
Antigua and Barbuda	
Argentina	
Armenia	
Australia	
Austria	
Azerbaijan	
Bahamas, The	
Bahrain	
Bangladesh	
Barbados	
Belarus	

Belgium	
Belize	
Benin	
Bermuda,	
Bhutan	
Bolivia	
Bosnia and Herzegovina	
Botswana	
Brazil	
Brunei	
Bulgaria	
Burkina Faso	
Burundi	
Cambodia	
Cameroon	
Canada	
Cape Verde	
Central African Republic	
Chad	
Chile	
China	
Colombia	
Comoros	
Congo, Democratic Republic of the	
Congo, Republic of the	
Costa Rica	
Cote d'Ivoire	
Croatia	
Cuba	
Curacao	
Cyprus	
Czech Republic	
Denmark	
Djibouti	
Dominica	
Dominican Republic	

East Limor (see Limor-Leste)
Ecuador
Egypt
El Salvador
Equatorial Guinea
Eritrea
Estonia
Ethiopia
Fiji
Finland
France
Gabon
Gambia, The
Georgia
Germany
Ghana
Greece
Grenada
Guatemala
Guinea
Guinea-Bissau
Guyana
Haiti
Holy See
Honduras
Hong Kong
Hungary
Iceland
India
Indonesia
Iran
Iraq
Ireland
Israel
Italy
Jamaica
lanan

Japan
Jordan
Kazakhstan
Kenya
Kiribati
Kosovo
Kuwait
Kyrgyzstan
Laos
Latvia
Lebanon
Lesotho
Liberia
Libya
Liechtenstein
Lithuania
Luxembourg
Macau
Macedonia
Madagascar
Malawi
Malaysia
Maldives
Mali
Malta
Marshall Islands
Mauritania
Mauritius
Mexico
Micronesia
Moldova
Monaco
Mongolia
Montenegro
Morocco
Mozambique
Mvanmar

Namibia	
Nauru	
Nepal	
Netherlands	
Netherlands Antilles	
New Zealand	
Nicaragua	Ē
Niger	≣
Nigeria	Ē
North Korea	
Norway	≣
Oman	Ē
Pakistan	
Palau	≣
Palestinian Territories	Ē
Panama	≣
Papua New Guinea	≣
Paraguay	Ē
Peru	
Philippines	≣
Poland	
Portugal	
Qatar	
Romania	Ē
Russia	
Rwanda	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	≣
Samoa	≣
San Marino	
Sao Tome and Principe	≣
Saudi Arabia	
Senegal	
Serbia	
Seychelles	

Sierra Leone
Singapore
Slovakia
Slovenia
Solomon Islands
Somalia
South Africa
South Korea
South Sudan
Spain
Sri Lanka
Sudan
Suriname
Swaziland
Sweden
Switzerland
Syria
Taiwan
Tajikistan
Tanzania
Thailand
Timor-Leste
Тодо
Tonga
Trinidad and Tobago
Tunisia
Turkey
Turkmenistan
Tuvalu
Uganda
Ukraine
United Arab Emirates
United Kingdom
United States
Uruguay
Uzbekistan

Vanuatu	
Venezuela	
Vietnam	
Yemen	
Zambia	
Zimbabwe	

ICCC Show/hide trigger exists.

3. What is your research field? *

Computational Biology Bioinformatics Biology and Life Sciences Ecology and Environmental Sciences Engineering and Technology Medicine and Health Sciences Physical sciences Social sciences Other (please specify) What is your research field?

" is one of the following answers ("Other (please specify)")

4. State your research field: *

5. Approximately how many research papers have you published? *

- 0 0
- O 1-5
- O 6-20
- O 21-50
- O 51-100
- O 100+

Reading articles with associated code

Page description:

These questions are about you as a **reader** of research articles.

LOGIC Show/hide trigger exists.

6. How often do you look at code associated with research articles? *

- Very frequently
- C Frequently
- Occasionally
- C Rarely
- O Never

Hidden unless: #6 Question "How often do you look at code associated with research articles?" is one of the following answers ("Very frequently","Frequently","Occasionally","Rarely")

7. Why do you look at code associated with research articles? *

Hidden unless: #6 Question "How often do you look at code associated with research articles?" is one of the following answers ("Very frequently", "Frequently", "Occasionally", "Rarely")

8. In the last 6 months, how useful did you find the following methods of accessing code? *

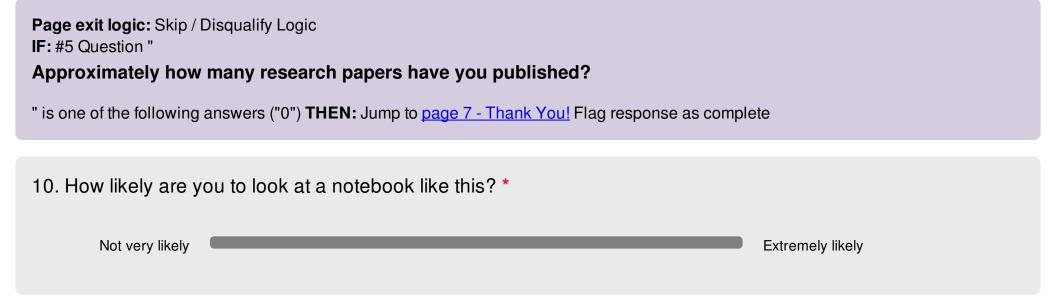
	Not at all useful	Slightly useful	Moderately useful	Very useful	Extremely useful	I have not encountered this method of sharing
available on request	0	0	0	0	0	0
link to code repository (e.g. github or bitbucket)	0	0	0	0	0	0
link, e.g. DOI, to code archived in a open access repository, e.g. Zenodo	0	0	0	0	0	O
link to website (personal/group/lab)	0	0	0	0	0	О
link to a code notebook	0	O	0	0	0	0
presented in the research article in an executable code capsule	0	O	O	O	0	С

Hidden unless: #6 Question "How often do you look at code associated with research articles?" is one of the following answers ("Very frequently","Frequently","Occasionally","Rarely")

9. Please explain which code sharing method you find most useful and why.

Page description:

The next questions relate to the prototype notebook you looked at. We are still asking you about your views from the perspective of a **reader** of research articles.



11. How important do you consider the following features of the **prototype notebook** that you looked at? *

	Not at all important	Slightly important	Moderately important	Very important	Extremely important	l did not use this feature
Ability to change the parameters of the figure using drop downs (e.g. Fig. 3) or sliding bars (e.g. Fig. 3 extra figure)	O	0	O	0	0	0
Ability to uncover the data point by hovering over the points on the graph	O	0	O	0	0	0
Ability to zoom in/out on the figures	O	O	0	0	0	0
Having all the code, data and figures in one place	O	0	O	O	0	0
Ability to interact inline with the code in the browser	C	0	0	0	0	o
Ability to open up the code as a Jupyter notebook	O	0	O	0	0	0
Knowing the code is running in the right environment	C	0	O	0	0	0
Having extra figures included that were not in the original paper	O	0	O	O	0	o

12. Are the any features that you thought were missing from the notebook?

Page description:

These questions ask about your opinions from the perspective of an **author** of a research article that has associated code.

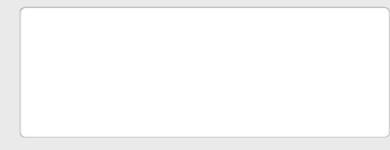
13. How important are the following factors to you when you are preparing to share code that is associated with a publication? *

	Not at all important	Slightly important	Moderately important	Very important	Extremely important	l do not know
Ability to share the code in my preferred form, e.g. as zip file or executable code capsule	C	C	C	O	C	O
Ability to share the code in my preferred location/platform	0	0	0	0	0	C
Ability to share my code with good accompanying documentation	0	0	0	0	0	C
Spend less time on the preparing my code for sharing, e.g. cleaning code, writing documentation	0	0	O	0	0	C
Spend less time on uploading the code and documentation to a repository	0	0	0	0	0	C
Depositing my code in a permanent archive	0	0	O	0	0	0
Curation checks are run on my code by a third party	0	0	O	0	0	O
Readers can easily run the code in the correct environment	0	O	O	О	0	O
The data and code are in the same place	0	0	C	0	0	O

14. How satisfied are you with your ability to do the following when you are preparing to share your code that is associated with a publication? *

	Completely dissatisfied	Mostly dissatisfied	Somewhat dissatisfied	Neither satisfied nor dissatisfied	Somewhat satisfied	Mostly satisfied	Completely satisfied	l do not know
Share your code in your preferred form, e.g. as zip file or executable code capsule	С	O	0	С	O	С	C	C
Share your code in your preferred location/platform	0	0	0	0	0	0	O	0
Share your code with good accompanying documentation	0	0	0	0	0	0	O	0
Preparing your code for sharing, e.g. cleaning code, writing documentation	0	0	О	0	0	0	O	0
Uploading your code and documentation to a repository	0	0	0	0	0	0	O	0
Depositing your code in a permanent archive	0	0	0	0	0	0	C	0
Ensure readers can easily run your code in the correct environment	0	0	0	0	0	0	O	0
Deposit your data and code in the same place	O	0	0	O	O	0	O	0

15. Please provide any comments you have on what you consider to be important when it comes to sharing your code associated with a publication.



16. Approximately how much time did you spend in total preparing and sharing the code associated with your last publication? *

- I didn't prepare and share any code
- C Less than an hour
- A couple of hours
- Half a day
- O A day
- More than one day
- More than one week

17. How much extra time would you consider spending on using a new tool to make your code easier to read and run? *

- Less than an hour
- A couple of hours
- Half a day
- O A day
- More than one day

18. Do you have any additional thoughts you would like to share?

Thank You!

Your survey is now complete. Thank you very much for your time! Please contact Lauren Cadwallader if you have questions.