



CODE OCEAN

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Agenda

1. Why is code important for publishers
2. What is Code Ocean
3. Reproducibility
4. Demo
5. Jupyter live machines
6. Combining languages



Why is code important?

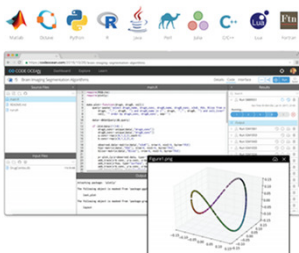


What is Code Ocean?

Code Ocean is a cloud-based executable research platform

It allows authors to upload their algorithms, and link them back to their articles.

The authors and other researchers can run the code, to test for reproducible results, and also execute the code with new input values.



CODE OCEAN

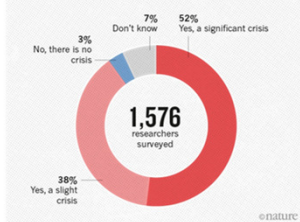
Before Code Ocean



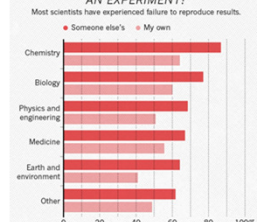
1. Find the code
2. Acquire the right hardware
3. Set up the environment
4. Import the right files
5. Installing all dependencies...packages, versions, OS etc...
6. Errors.. Debugging.. Errors.. Debugging
7. Run
8. Results

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IS THERE A REPRODUCIBILITY CRISIS?

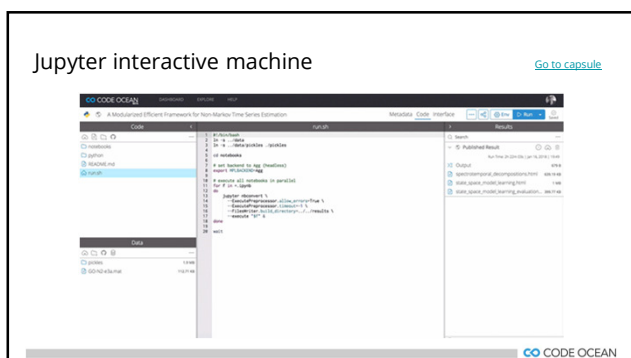
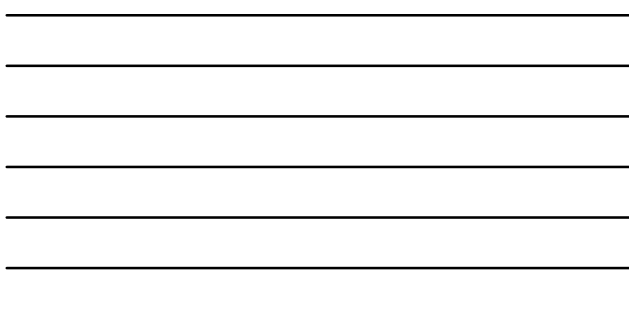
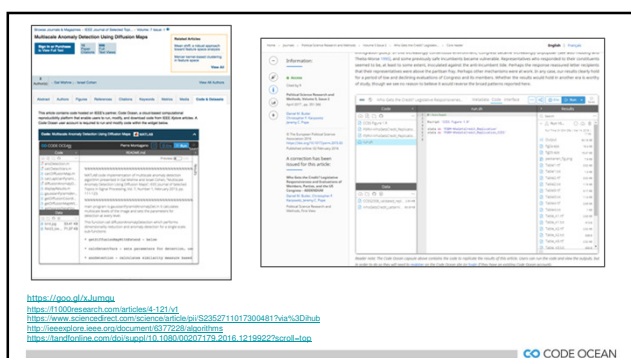
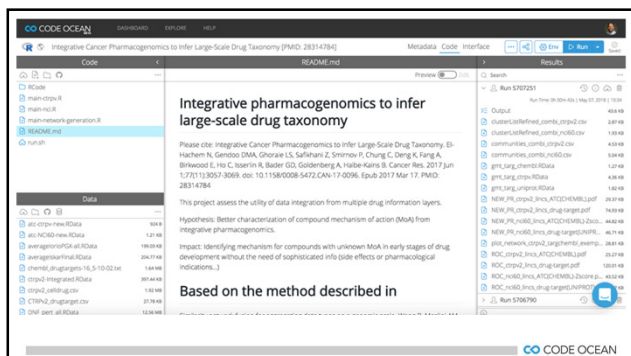


HAVE YOU FAILED TO REPRODUCE AN EXPERIMENT?



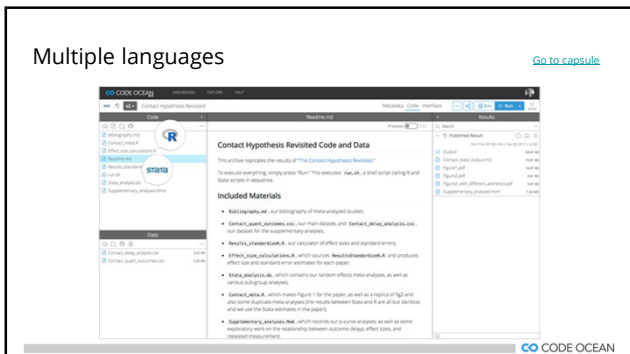
Nature 533, 452-454 (26 May 2016) doi:10.1038/533452a

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Multiple languages

[Go to capsule](#)



Why is it important?



Reproducibility
Code Ocean allows other researchers to run the code, to test for reproducible results, and also execute the code with new input values.



Impact
There is a positive correlation between the availability of code and software and the number of citations.



Reuse
Allows users to run multiple versions of the algorithm augmenting the code or/and using alternative inputs.



Move beyond the pdf
Brings authors work alive in an executable environment and provides a new level of engagement to end users.

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Questions?

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