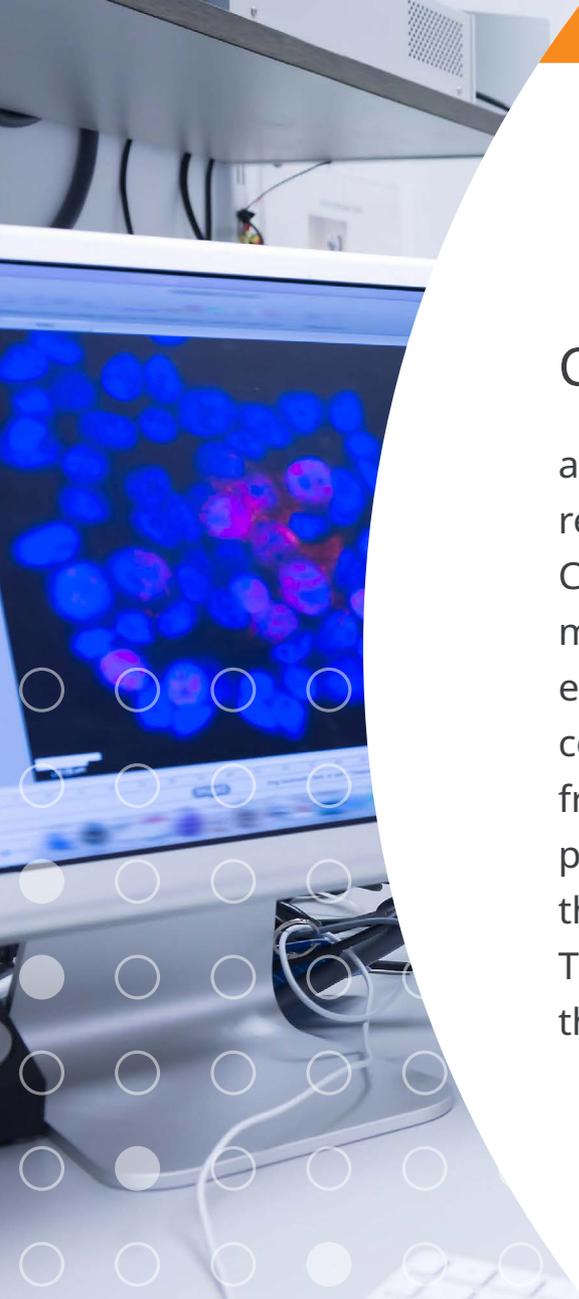CODE OCEAN

COMPUTE CAPSULES FOR RESEARCH

Accelerate Research & Collaborate with Ease

Guarantee reproducibility with Code Ocean

Code Ocean is

a cloud-based research collaboration platform that supports researchers from the beginning of a project through publication. Code Ocean streamlines computational research with an integrated management platform that enables researchers to create an end-to-end workflow geared towards reproducibility. Researchers can easily collaborate and replicate work via capsules that can be accessed from any computer. They can simply share view or edit rights to their private capsules with collaborators so anyone can run the code, view the data and analyze results without configuring the environment. The ability to run capsules in the cloud allows researchers to focus on the research and analysis without worrying about technology.
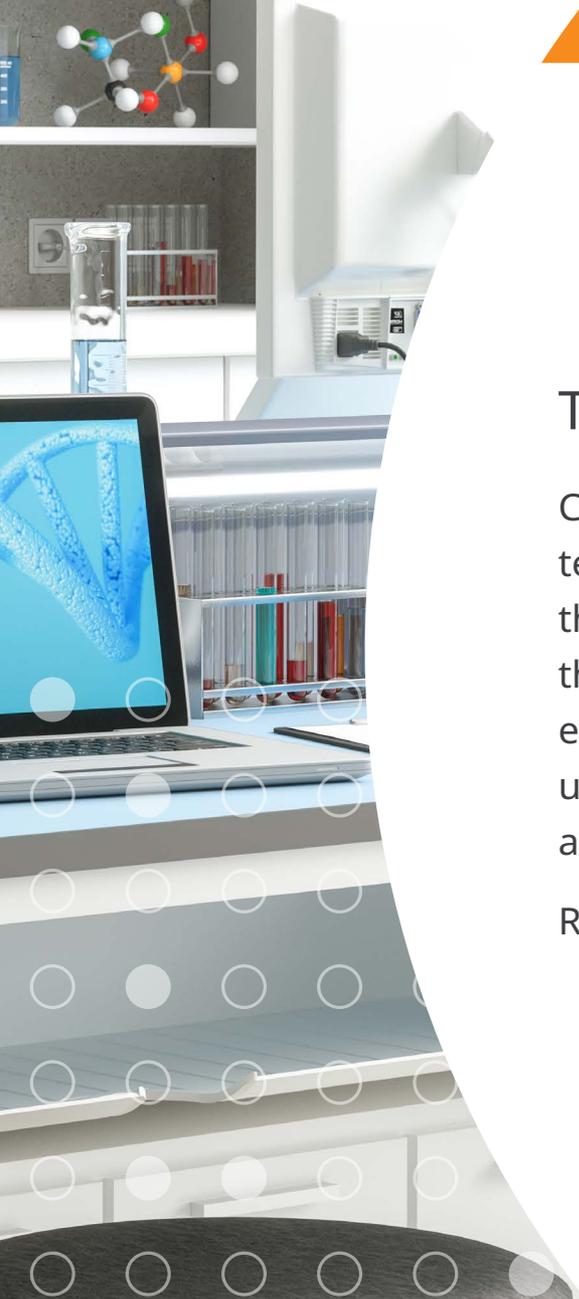
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What is a compute capsule?

A compute capsule is an executable container that packages code, data, results and the work environment together, allowing researchers to run and reproduce work from any web browser without needing to install hardware or software on a local machine. It's everything needed to rerun the analysis preserved in the cloud to ensure reproducibility. All capsules published on Code Ocean are verified to be computationally reproducible – today, tomorrow, or next year.

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Training and Instruction

Code Ocean capsules reduce time spent onboarding and training team members. Since code, data, and packages are configured on the cloud, new collaborators, researchers and students only need the appropriate access to the capsule and can skip the time-wasting effort to replicate the environment. Troubleshooting technology is unnecessary. They can just duplicate, edit and run the capsule from any computer or laptop.

Researchers can try Code Ocean for **free**

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Researchers spend more time on research while Code Ocean takes care of the technology.

Pipelines, analyses, visualizations, and statistical checks are all great fits for Code Ocean.
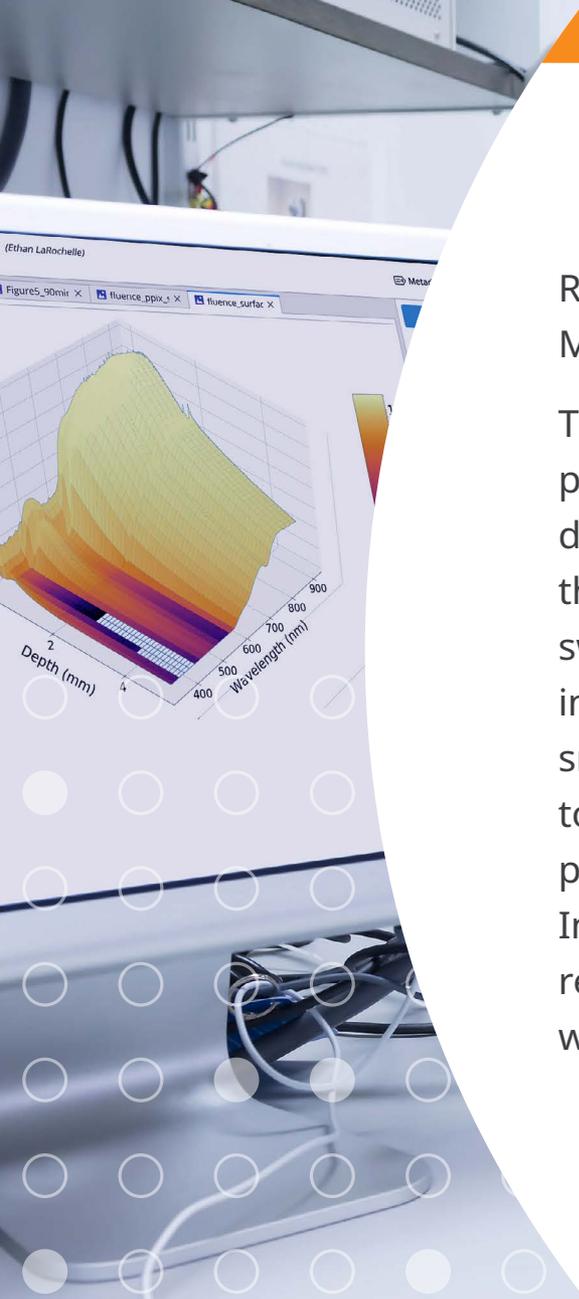
Capsules by field:

- Bioinformatics
- Biology
- Medical Sciences
- Engineering
- Computer Science

- Social Sciences
- Mathematics
- Earth Sciences
- Physics
- And more

Researchers can code in any open source language, as well as MATLAB and Stata.

The platform offers an intuitive workbench that supports all the processes throughout the research lifecycle. Researchers use the development tools they love (e.g. RStudio, Jupyter, Git) from within the workbench. The tedious operations such as selecting, launching, switching and terminating compute machines, installing and integrating various development tools, saving consistent project snapshots in cloud storage, keeping things organized and easy to find, reuse and share, or moving back in time to reproduce the project at an earlier phase - are all taken care of by the workbench. In addition, the workbench incorporates a simple UI that empowers researchers to generate their own Dockerfiles and Dockerimages without the need to code them themselves or ask IT to do it for them.

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Institutional Plans

With a Code Ocean institutional plan, the institution can help facilitate, reuse and collaborate on the research and ensure published research is complete and reproducible. Code Ocean has partnered with top publishers allowing researchers to easily publish associated code and data. A robust preservation plan allows institutions to protect intellectual property while ensuring research integrity. Code Ocean also provides actionable usage analytics such as how much time was spent working on the compute capsule, number of duplications, number of runs and more. Gain a deeper understanding of the research activities within your institution through access to detailed analytics and reporting.

Explore published research at Code Ocean **now**

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