

# Code Ocean for Computational Research & Discovery Teams

A solution for faster, more collaborative, higher quality discoveries

Computational research and discovery teams are struggling with keeping work organized, ready to be reused by themselves or their colleagues. Researchers are wasting precious time performing or waiting on infrastructure and environment setup, configuration, data management, and other operational tasks. Results are often hard to find, reproduce, reuse, and share, and computational costs are high.

Our integrated cloud-based platform transforms the research process to achieve higher quality and streamlined operations. It enables computational researchers and informatics engineers to capture the exact version of code, data, and computing environment that generated every result. Using the Code Ocean platform, researchers create projects that are organized, accessible, and interoperable, making it easy to reuse and build upon previous work.



Computational  
researchers



Informatics  
& IT



Scientists

## Improve your computational research quality and productivity



Reduce wasted  
researcher  
time



Accelerate  
time to research  
results



Optimize  
compute and  
other costs



Guarantee  
reproducibility



Ease and  
streamline  
collaboration



Visibility,  
trust and  
control

## One Place For An Integrative Computational Research Experience

The Code Ocean platform combines four foundational pillars into a great user experience:

- Out-of-the-box popular computational tools
- Easy access to any computing resource and data storage
- Integrated collaboration and access control
- Centralized repository to keep projects and results organized and preserved

It is the best way to standardize research workflow, and track and reproduce all computations and discoveries.



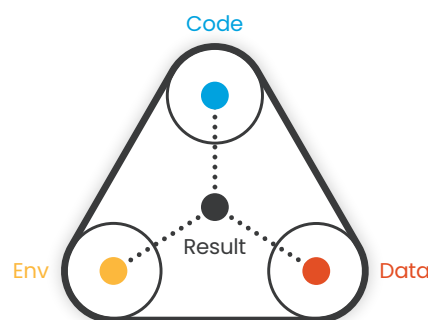
## Platform Capabilities for the entire R&D team

- **Fast setup and onboarding** of researchers
- **Out-of-the-box RStudio, Jupyter** and many more tools
- **Sharing and collaboration** as easy as sharing a link and granting permission
- **Easy access for bench scientists** to execute and visualize results through a web browser
- **Simple, GUI-based creation** of Dockerfiles and Docker images
- **FAIR principles-based repository** with searchable built-in asset management
- **Reproducibility & data provenance** - data, code, computing environment, and results are always linked, captured, and stored collectively
- **Scalable computing** with easy access to exactly the capacity you need – CPUs/GPUs, memory and storage on any cloud instance type
- **Smart cost management** using automated resource allocation and cost transparency
- **Virtual private cloud** keeps projects secure behind your own firewall, giving you complete control over data governance

## Code Ocean Compute Capsule

A unique experience powered by the Code Ocean Compute Capsule

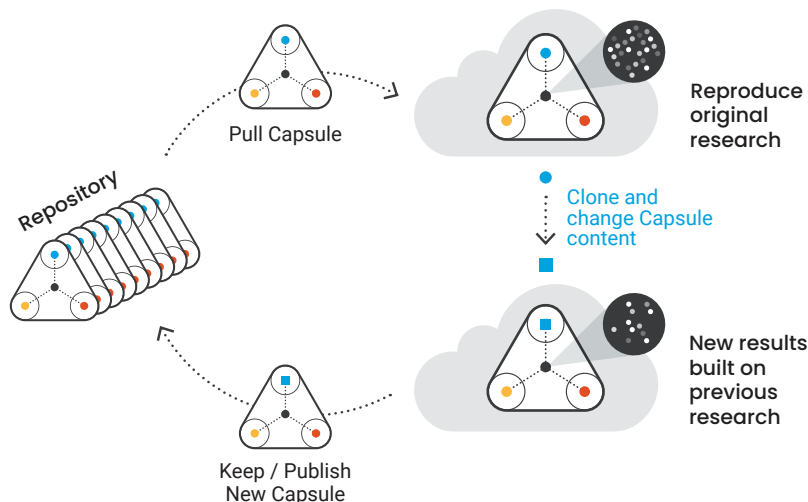
At the heart of the Code Ocean platform lies the compute capsule. It contains project environment, code, data, and results in a snapshot that can be persisted, versioned, and executed—ensuring you can reproduce the project back to any point in time.



## How it works

### Centralized repository to keep projects and results organized and preserved

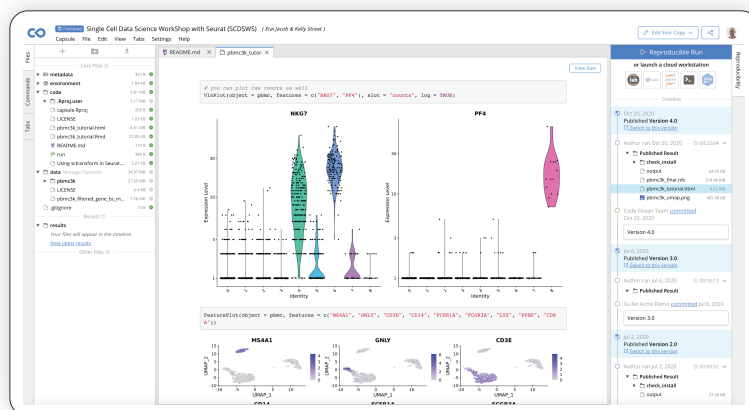
Store all your capsules in a searchable and shareable repository that supports internal or external collaboration. You can find and select a capsule from the repository and launch it at any time within the platform, and you can also export capsules and use them outside the platform with open source tools such as Docker.



### Workbench standardizes and streamlines computational tasks for researchers and the team

An intuitive computational workbench supports the entire workflow throughout the research project.

- Standardization of the user experience and workflow
- Ready-to-use RStudio, Jupyter, Shiny, Terminal, Git
- Choice of popular languages
- Access to any size of data and storage type
- Configure and generate Docker environments
- One-click access to AWS compute resources



Code Ocean Computational Workbench

Trusted by



For more information more:  
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