# Pyodide

Pyodide is a Python distribution compiled to WebAssembly, enabling Python code to run directly in web browsers or Node.js environments. Originally developed by Mozilla and now community-maintained, Pyodide provides a **full** Python environment with access to scientific libraries like **NumPy**, **Pandas**, and **Matplotlib**, as well as the ability to install additional packages via **micropip**.

Key Features:

Python in **Browsers**: Runs Python code in a sandboxed WebAssembly environment.

**Package** Support: Includes many Python libraries and supports installing additional ones from **PyPI**.

**Interoperability**: Offers **seamless integration** between Python and JavaScript, allowing **bidirectional communication**.

**Scientific Stack**: **Ideal for data science tasks** in the browser without requiring local installations.