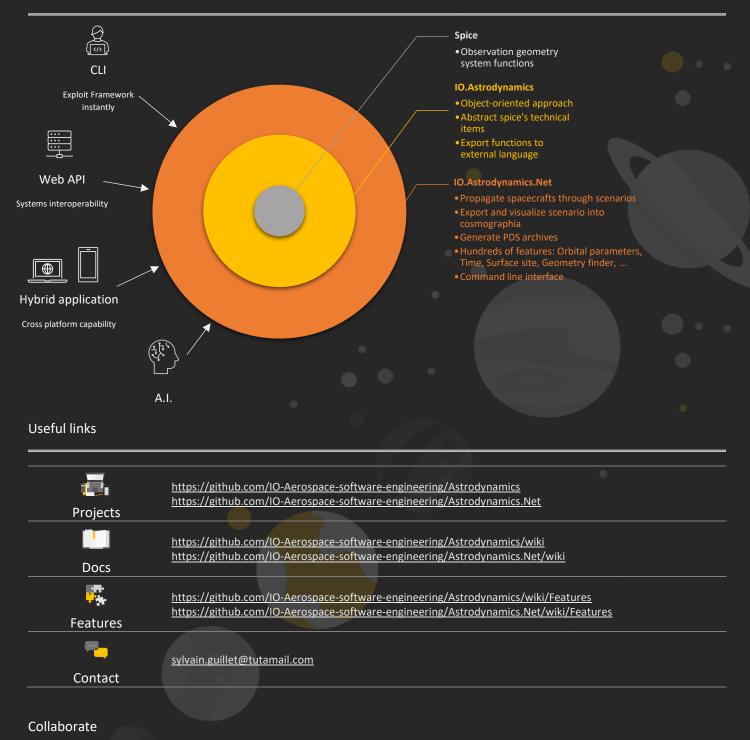
Project presentation



IO.Astrodynamics is an open-source initiative aimed at enhancing the functionality of the Spice library. The primary goal is to empower developers and researchers in the field of astronomy and astrodynamics by abstracting the technical complexities, enabling them to focus on their core objectives.

This project extends Spice's capabilities by offering an object-oriented approach, hundreds of extension methods and a propagator that includes essential features such as n-body perturbations, simplified atmospheric models, solar radiation pressure consideration, and a precise gravitational model based on geopotentials. Furthermore, users can easily execute impulsive maneuvers on spacecraft, facilitating mission planning and analysis.

Project structure



Join us in advancing the accessibility and usability of astrodynamics and astronomy observation simulations through collaborative open-source development.