Debris App

Columbia Space Initiative, Hackathon 2019

- Software Track Winner 🍈





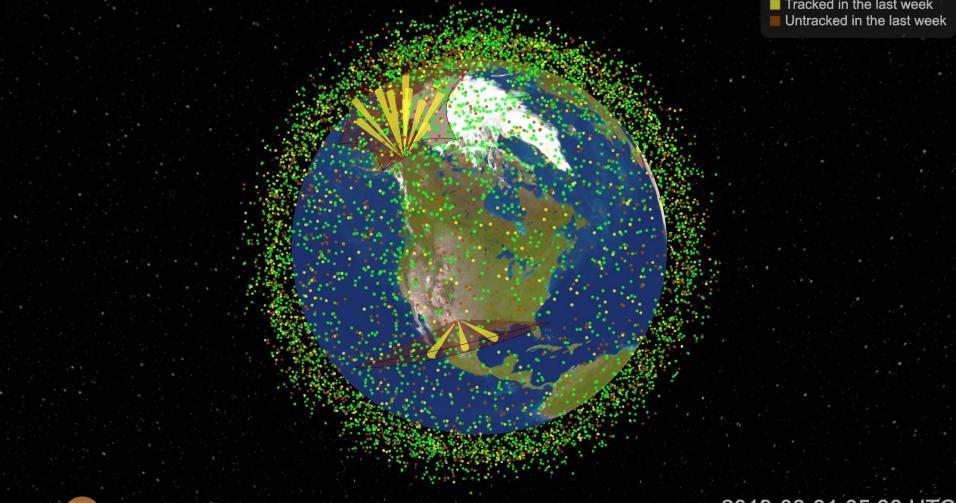


Overview

Debris App allows users to explore and become aware of the amount of detectable debris in LEO (Low Earth Orbit).

In order to achieve this it has two main features:

- Showing debris in AR (skyview)
- Number of debris collision if an object of a given size is thrown into orbit from a given location





2019-03-31 05:38 UTC

Goal

"Increase awareness on the topic"

Target Audience

General Space Education Community

High School Students

Space Enthusiasts

Technology

Expo

- Portability
- Ease of development

Data Sources

- LeoLabs Space API
 - https://www.leolabs.space

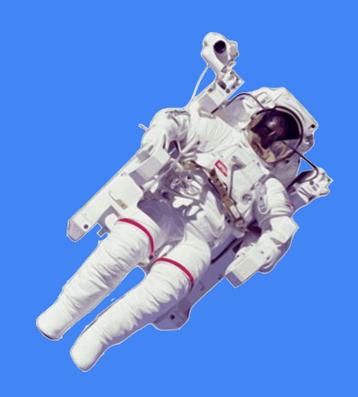
Challenges

Convert from ECI to LLA

Show State Vector using device gyroscope in ECI

Time & Team Size

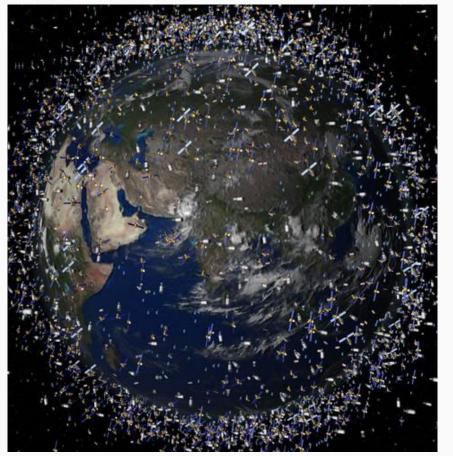
Live Demo



Predicted Completion Time

(for a first real alpha version)











Thanks for listening

Space exploration is a force of nature unto itself that no other force in society can rival.

Neil deGrasse Tyson

Contact

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Reach out if you're interested in joining me into the development project.

