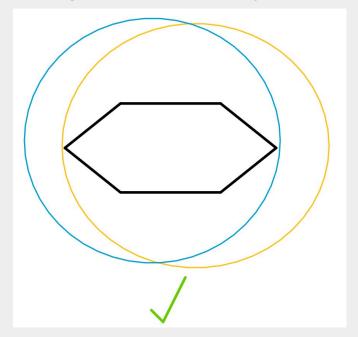
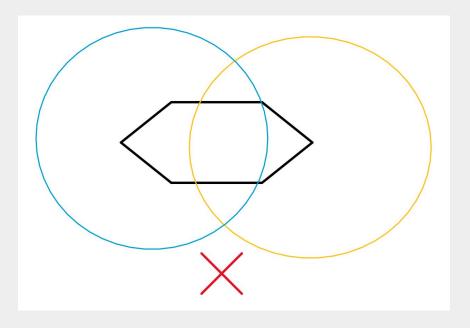


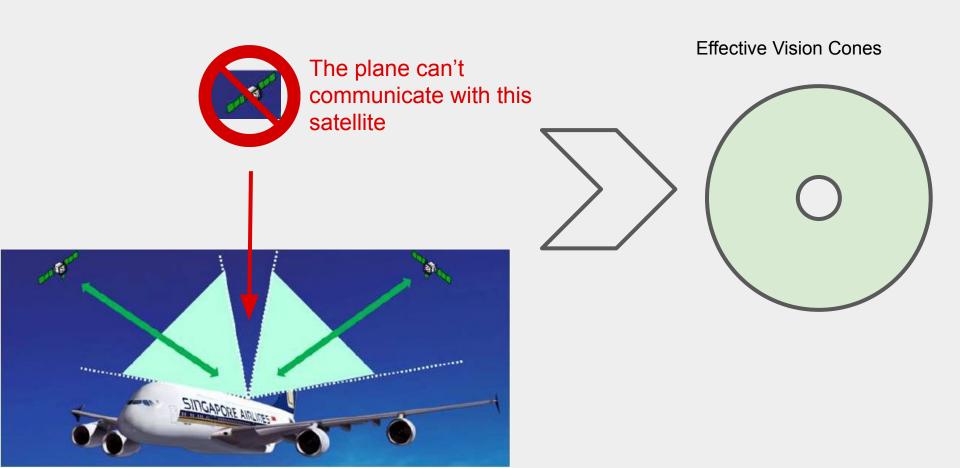
Motivation

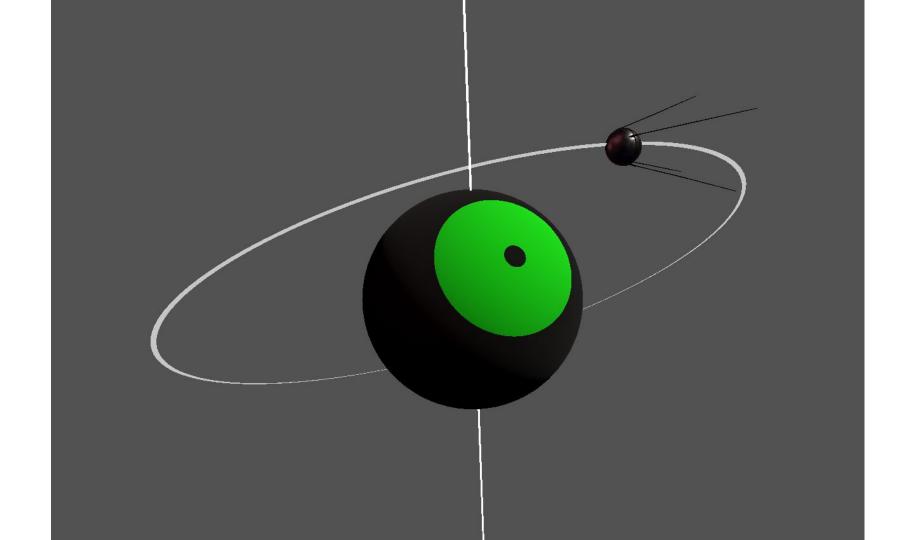
- We need a satellite communication system for airplanes across the globe
- Airspace is divided into fixed regions
- Regions must be fully covered by at least one satellite at all times



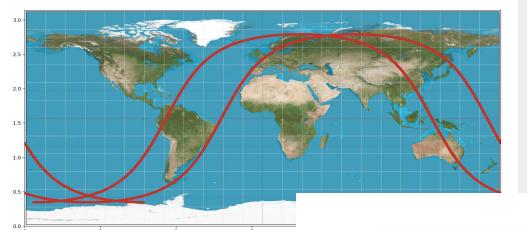


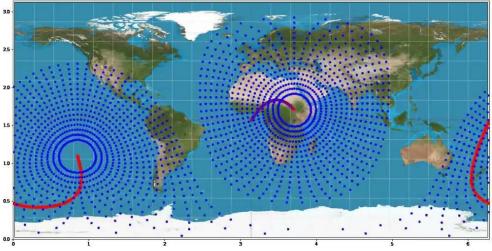
Motivation



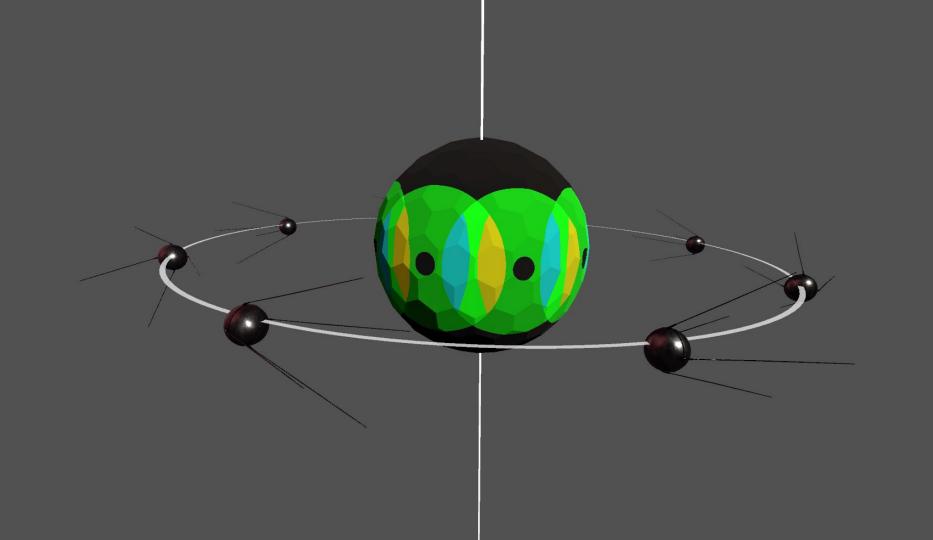


- Two Working simulations of arbitrary satellite constellations
 - Calculation of satellite coverage maps 2D
 - GPU accelerated visualization and calculation of satellite coverage
 - Visualization of region handovers verification
- Easily verifiable sectorization of earth and according satellite constellation
 - 62 satellites in total on 7 different orbits



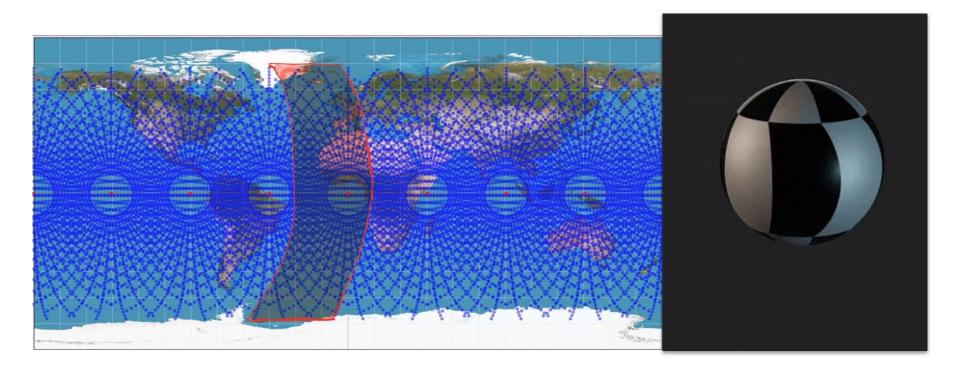


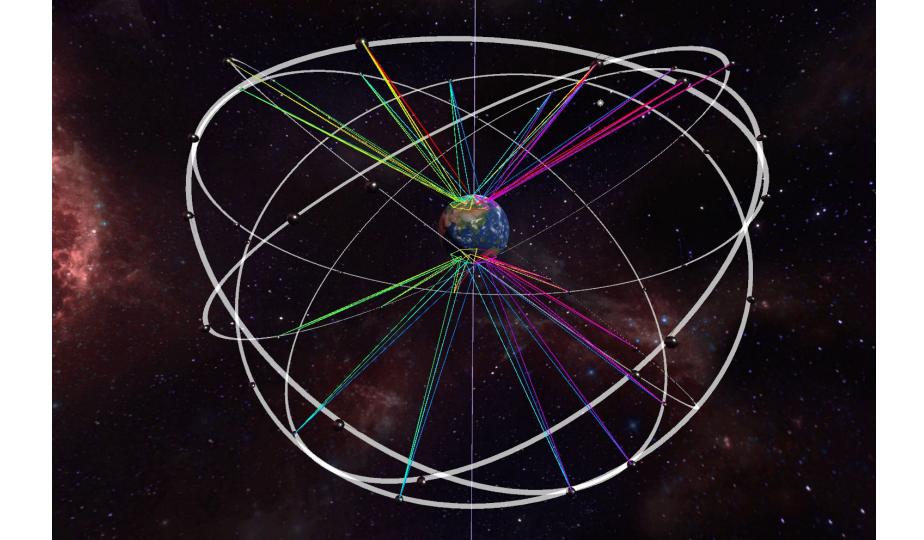
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Equatorial coverage





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Thank you for listening!

