A satellite view of Earth from space, showing the curvature of the planet and the blue oceans. The word "SPAIN" is visible in the lower right corner of the image.

Welcome to SIMSverse

[Start The Tutorial](#)

[Play SIMSverse](#)

SIMSverse

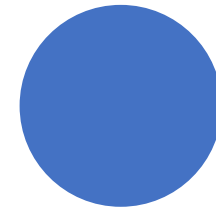
PLANETS NEAR AND FAR
Build a Planet

- Your challenge is to create a game that will allow players to customize the characteristics of a star and design planets that could reasonably exist in that star system. Ensure that this game provides an educational experience for players!

The challenge

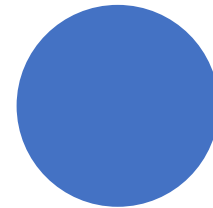
PLANETS NEAR AND FAR

Build a Planet



- The universe is a wonderful and attractive creation but difficult to understand.
- Planets are different in size and chemistry.
- Relation between the planets and stars is vast and mysterious.
- Learning about planets in the universe can be challenging.

Background

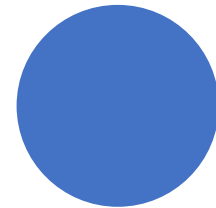


- Share the knowledge
- Fact based **game** (True science)
- **Kids friendly**
- **For everyone, everywhere**

Proposal

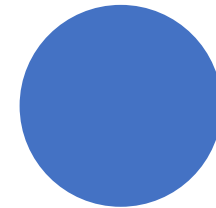
- Learn while creating a star system
- Understand the known characteristics and constraints found in a star system
- Complete objectives and goals
 - Create a suitable planet for life
- Something else goes here...

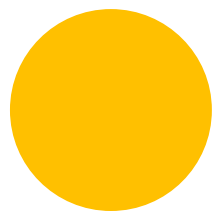
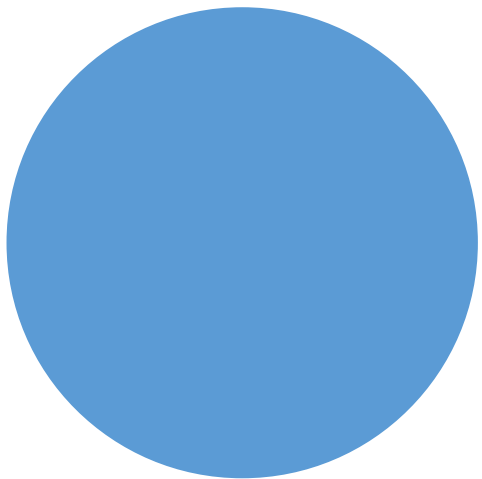
Game objectives



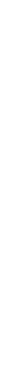
- A simulation game that explores the creation of a star system
- Players customize the star system and create planets by choosing custom characteristics, number of moons, rings, etc. and maybe harbor life.
- Some available features include size, surface chemistry, atmospheric chemistry, orbit, moons, distance from the sun, and other.
- Asteroids, comets, meteorites and other elements are also part of the game.
- Players can interact and observe in time the dynamic of the star systems including the habitable zone.

What it does





Try it out



In-game simulation example



Solar System Dynamics



<https://solarsystem.nasa.gov>



NASA Science

SOLAR SYSTEM EXPLORATION

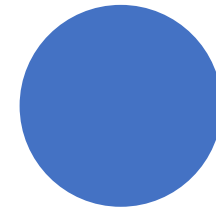
<https://ssd.jpl.nasa.gov>



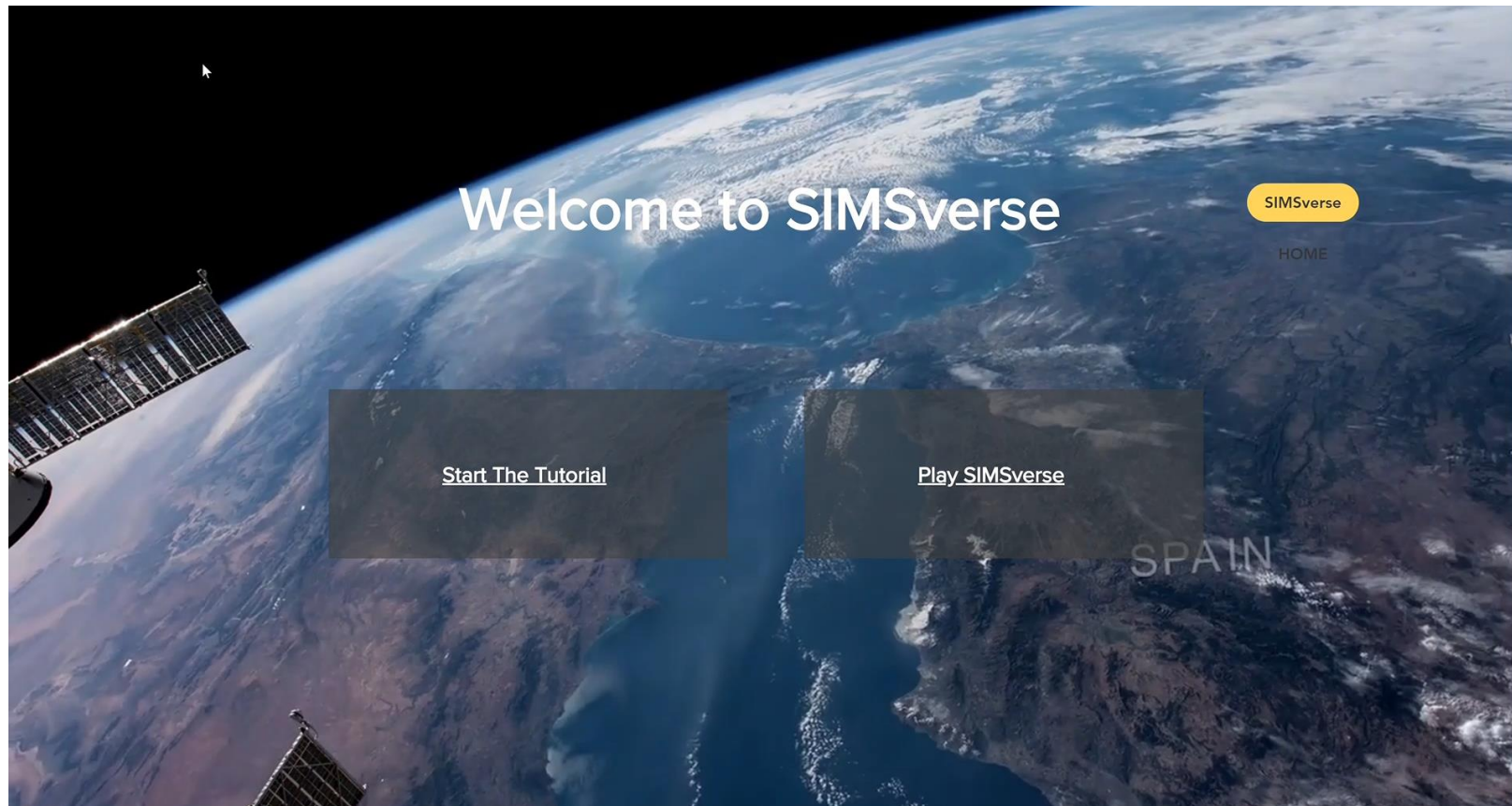
https://www.nasa.gov/centers/goddard/news/topstory/2007/earthsized_planets.html

- Akeson, R. L. et al. "The NASA Exoplanet Archive: Data and Tools for Exoplanet Research." Publications of the Astronomical Society of the Pacific 125.930 (2013): 989–999.

NASA Resources



Game demo

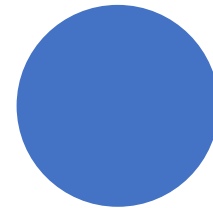


- Expand missions' goals and challenges
- Cloud base multiplayer
- First contact with other “civilizations” life
- “Milky way’s” evolution playback
- Many more science-fun functions

Future Plans

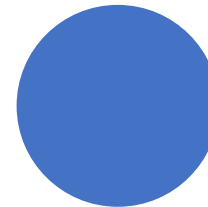
- Blender
- Html
- Unity*

Built With



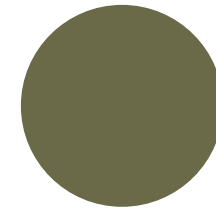
- #solarsystem
- #planets
- #simulation
- #game
- #education
- #kidslearn

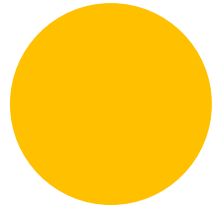
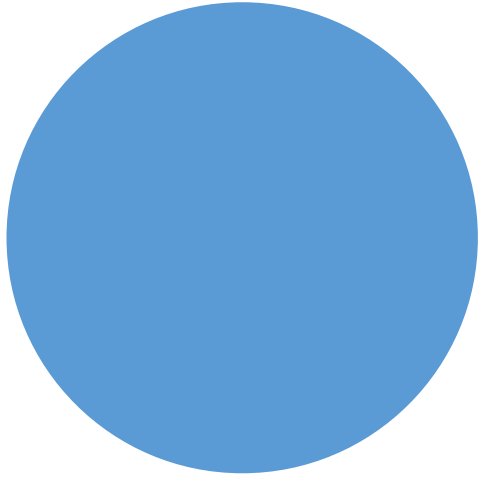
tags



- Create your own planet game
- Travel in time playback
- True science for everybody
 - Impact: Everyone, everywhere
 - Creativity: Learning by playing
 - Validity: NASA data
 - Relevance: Satisfies human nature curiosity

Summary





Thank you!

ありがとう
ございました