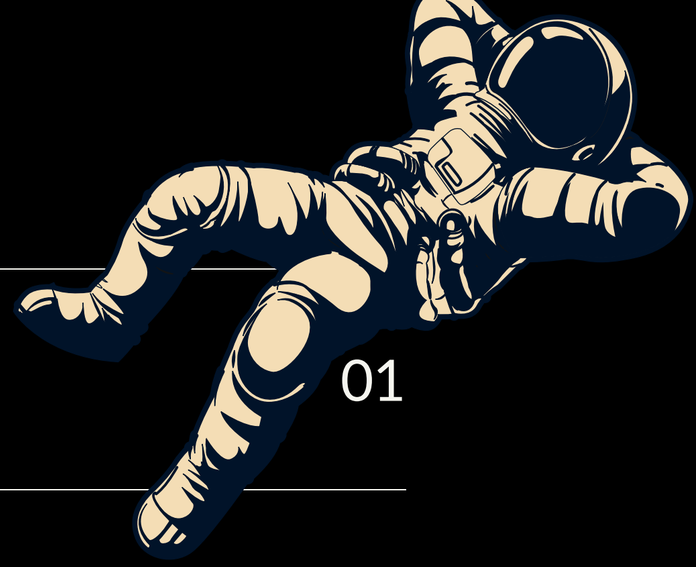

SPACE SCENE
RECREATION

Team Members



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IDEA

Virtual Simulation System of Solar System Model.
The system aims to cultivate students' spatial imagination, creative thinking ability and stimulate students to explore the mysteries of the universe.
The Space environment include the Sun and 8 Planets (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune). We simulated the rotation of planets around the sun.
In Addition two these we even included moon and Spaceship around the Earth.

Software/Technologies Used:

- Blender
  - Blender Short-cut Keys
  - Blender Plug-ins
  - Texture/Vertex coloring
  - Usage of Materials, shades, Models, Modifiers
- Python

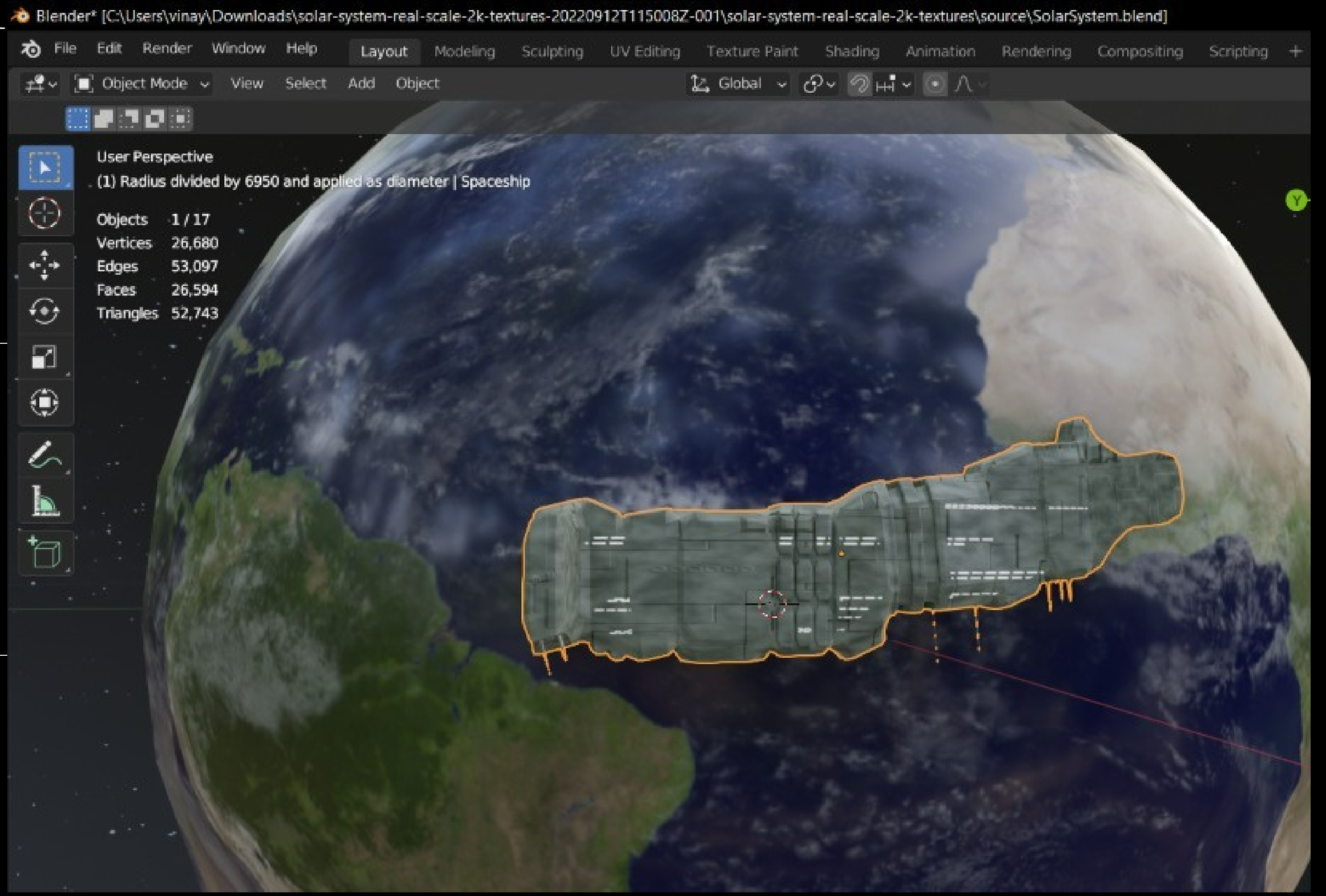
Introduction to Blender

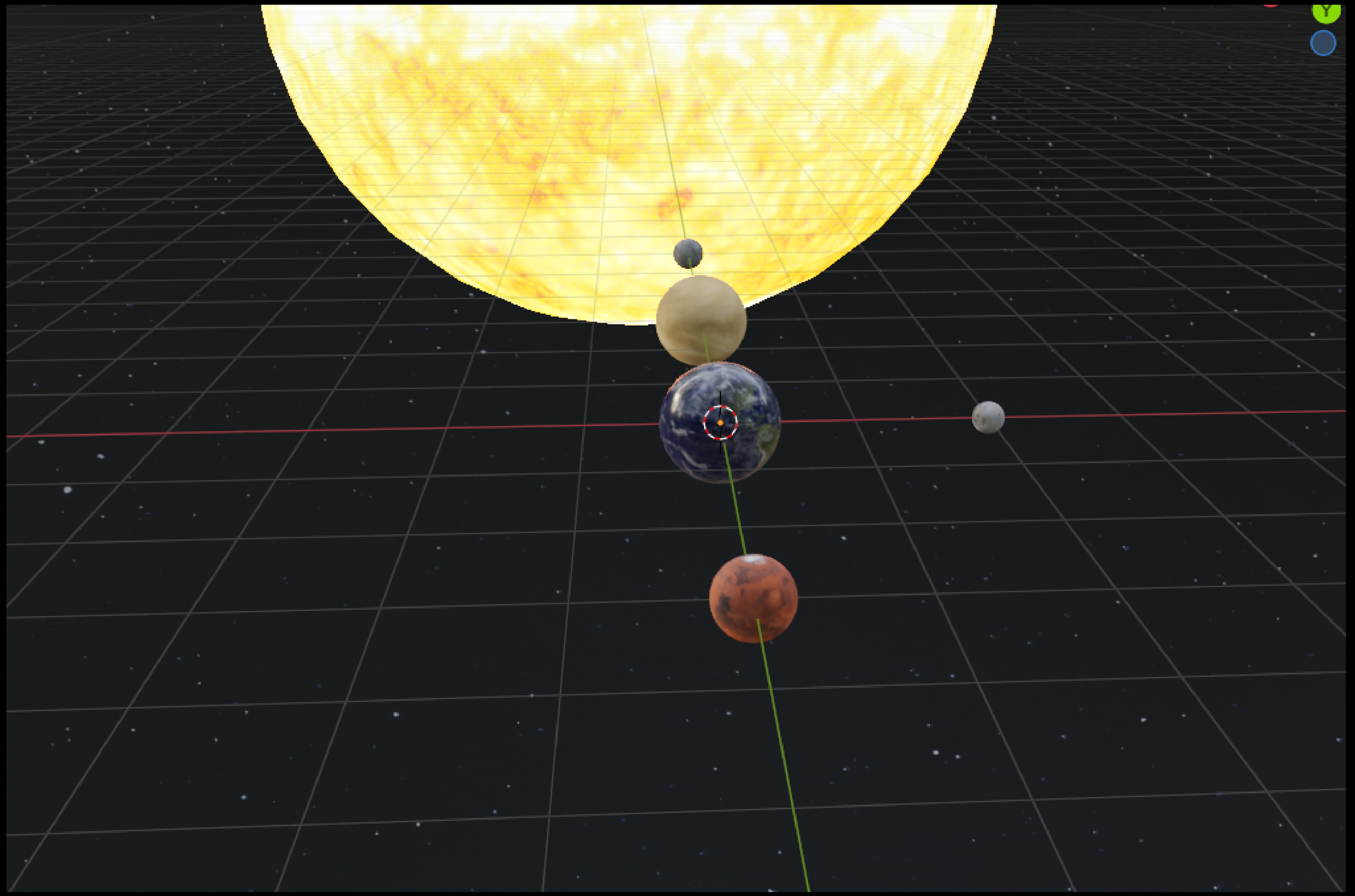
Blender is a free and open-source 3D computer graphics software tool set used for creating animated films, visual effects, art, 3D-printed models, motion graphics, interactive 3D applications, virtual reality, and, formerly, video games. Blender's features include 3D modelling, UV mapping, texturing, digital drawing, raster graphics editing, rigging and skinning, fluid and smoke simulation, particle simulation, soft body simulation, sculpting, animation, match moving, rendering, motion graphics, video editing, and compositing.

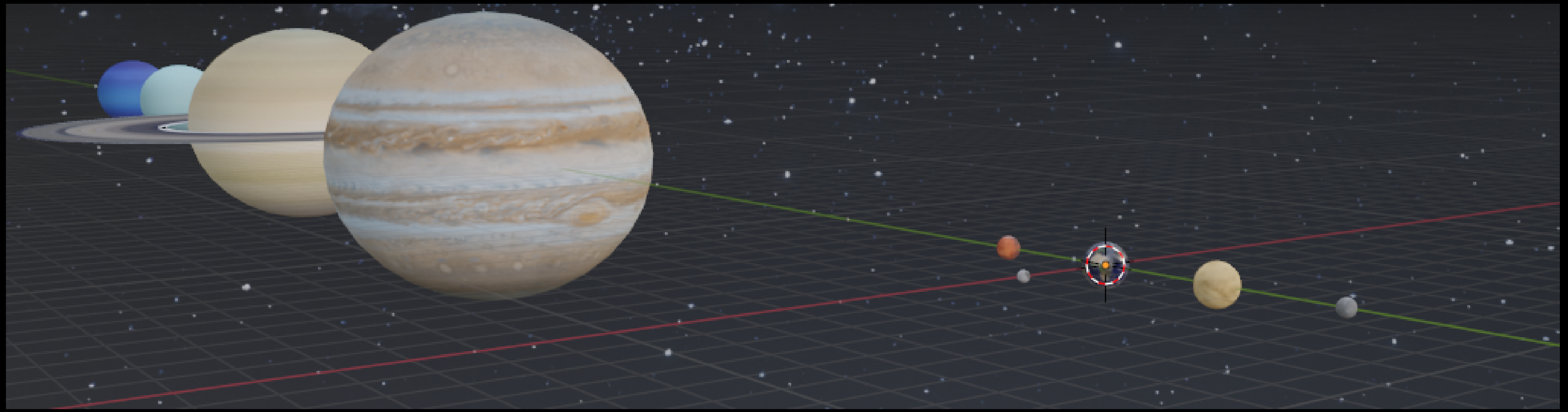
Project Procedure

- **Modeling**
- **Unwrapping**
- **Texturing**
- **Rendering**

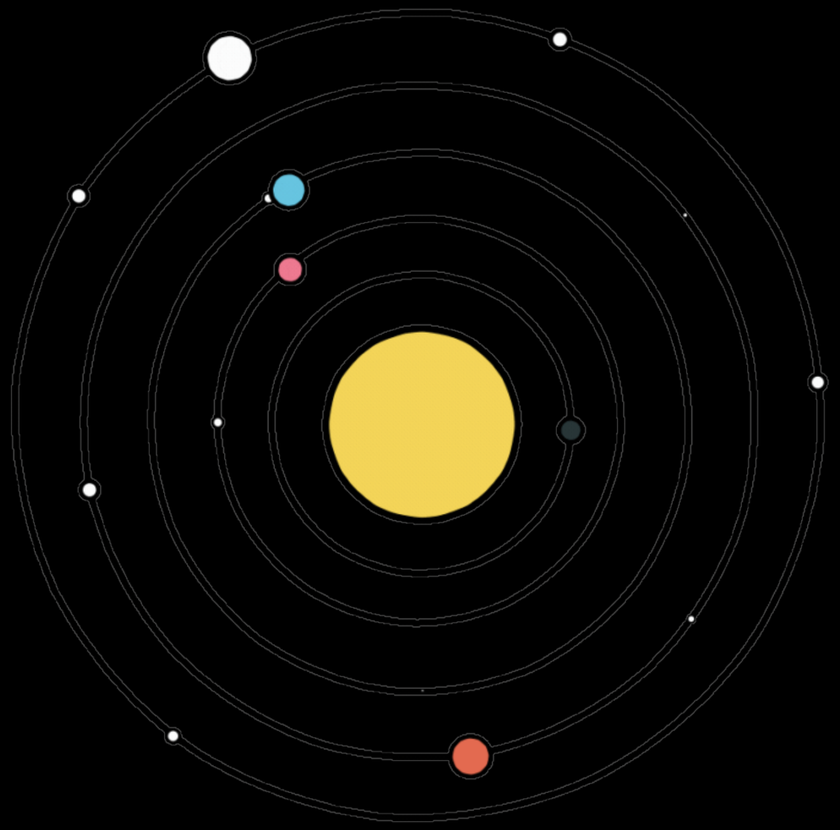
OUTPUT


Blender* [C:\Users\vinay\Downloads\solar-system-real-scale-2k-textures-20220912T115008Z-001\solar-system-real-scale-2k-textures\source\SolarSystem.blend]
File Edit Render Window Help
Layout Modeling Sculpting UV Editing Texture Paint Shading Animation Rendering Compositing Scripting
Object Mode View Select Add Object
Global
User Perspective
(1) Radius divided by 6950 and applied as diameter | Spaceship
Objects 1 / 17
Vertices 26,680
Edges 53,097
Faces 26,594
Triangles 52,743





Applications



- We can use this model in order to understand about the solar system, and how the rotation and revolution of the planets work.
- It could be used by teachers to initially help children visualize the solar system.
- · This is an interactive solar system, and we could see the effects of planets moving fast, and also zoom in and translate.

Thank you