

### What is our GOAL for this MODULE?

The goal of this class is to add sky and torus components in A-Frame and learn the concept of relative positioning using the parent/child entity component system.

### What did we ACHIEVE in the class TODAY?

We learned how to add a sky element, textures and sounds in the A-Frame. We also learned about the concept of parent and child entity to create the Moon for the planet earth and rings of the planet Saturn.

## Which CONCEPTS/CODING BLOCKS did we cover today?

- <a-sky> tag
- <a-torus> tag
- Textures in A-Frame
- Sounds in A-Frame
- Parent/Child entity



## How did we do the activities?

1. We learned how to add <a-sky> primitive.

2. We learned how to add an image texture source using "src" to the sky element.

```
<!--Sky-->
@a-sky src="https://cdn.glitch.com/850dd813-e5e9-4dd0-9751-38981ae74172%2Fvia_lactea.png?v=1604296331712"

<pre
```

3. We learned how to add an image texture source to any entity using "src".

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4. We learned how to use <a-torus> to create orbiting paths of the planets.

5. We learned how to make one entity as a child of another entity to add the Moon.

6. We learned how to add a sound component.

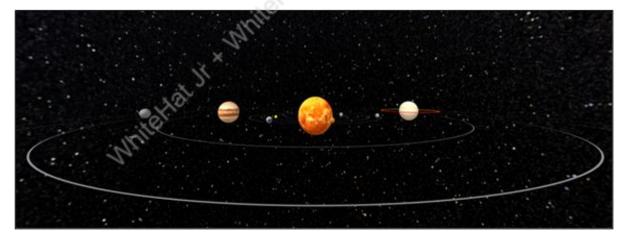
```
<a-entity
sound="src: https://cdn.glitch.com/850dd813-e5e9-4dd0-9751-38981ae74172%2Ffh_space_discovery_-_earth_proud_music_preview(1).mp3?v=10
</a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a-entity></a></ar>
```



7. We learned how to make Saturn rings using torus components as the child entity.



```
<a-entity position="0 0 0" rotation="0 0 0"
    animation="property: rotation; to: 0 360 0;easing:linear; loop: true; dur: 45000">
    <a-sphere position="26 0 -5" radius="0.9"
        src="https://cdn.glitch.com/850dd813-e5e9-4dd0-9751-38981ae74172%2Fsaturn.png?v=1604312433927">
        <a-torus color="red" radius="3" rotation="90 0 0 " radius-tubular="0.015" segments-tubular="1000">
        </a-torus>
        <a-torus color="pink" radius="2.9" rotation="90 0 0 " radius-tubular="0.02" segments-tubular="1000">
        <a-torus color="orange" radius="2.8" rotation="90 0 0 " radius-tubular="0.025" segments-tubular="1000">
        </a-torus>
    </a-sphere>
</a-entity>
<!--Uranus-->
(a-entity position="0 0 0" rotation="0 0 0"
    animation-"property: rotation; to: 0 360 0; easing: linear; You
    da-sphere position="31 0 -5" radius="0.6"
        src="https://cdn.glitch.com/850dd813-e5e9-4dd0-9751-38981ae74172%2Fmercurio.jpg?v=1604298142259"
    </a-sphere>
```



We completed the 3D Web VR Solar System design.

#### What's NEXT?

We will be learning about lights & shadows in A-Frame and 3D models.

#### **EXTEND YOUR KNOWLEDGE:**

You can refer to the below link for more information

# **PRO-C147**



https://aframe.io/docs/1.1.0/introduction/.

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