



The Deal Team™



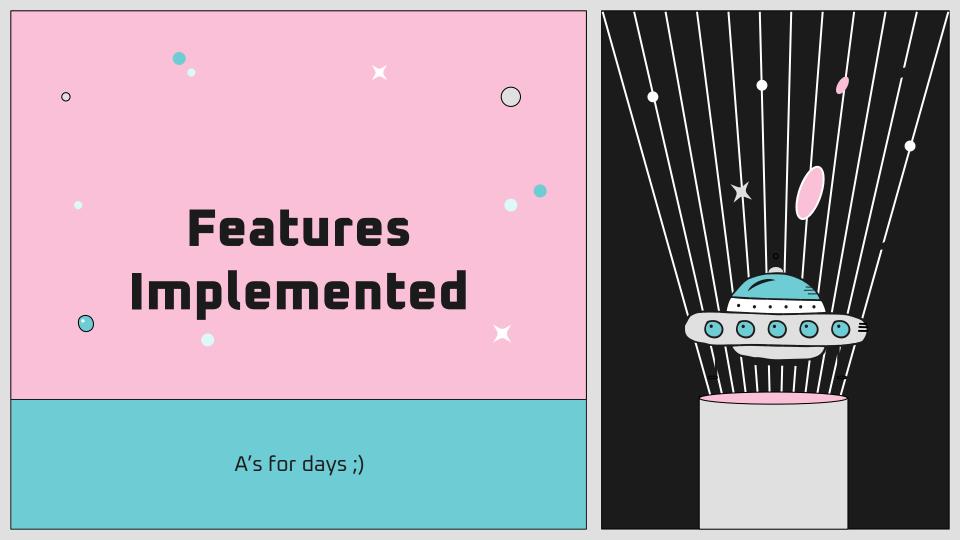




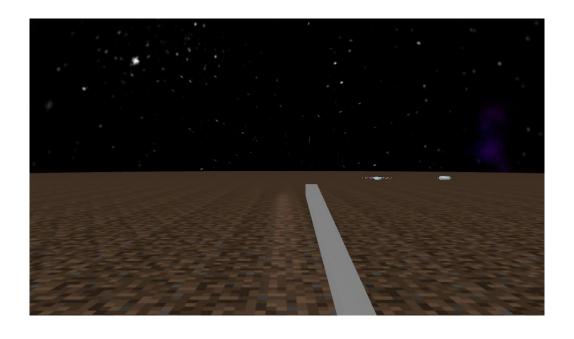
Preet Modi	Parth Deshpande	Arnav Mathur
"Particles are my passion."	"The sky's the limit!"	"Boom boom"

Objectives

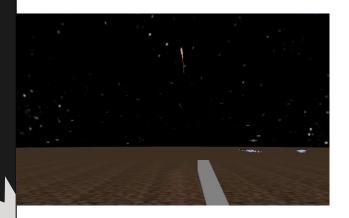
Replicating firework physics and animation Interactivity with objects in the world Camera dynamics



World Movement



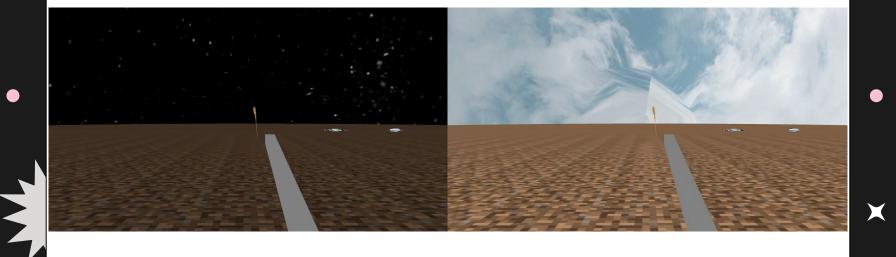
Physics Simulation



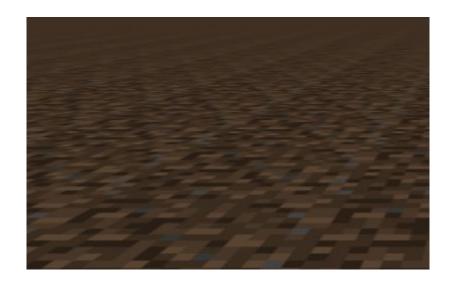
```
sproj(u,t)
{
    let s = (u*t)+0.5*(-9.81)*Math.pow(t,2);
    return Math.max(s,0);
}

vproj(u,t)
{
    let v = (this.sproj(u,t) +0.5*(-9.81)*Math.pow(t,2))/t
    return v
}
```

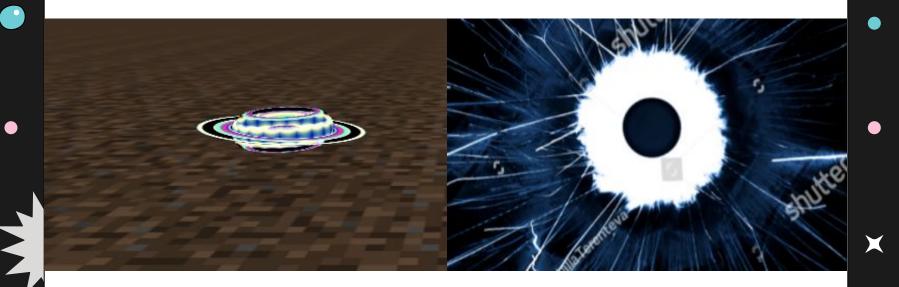
Skybox → Day/Night



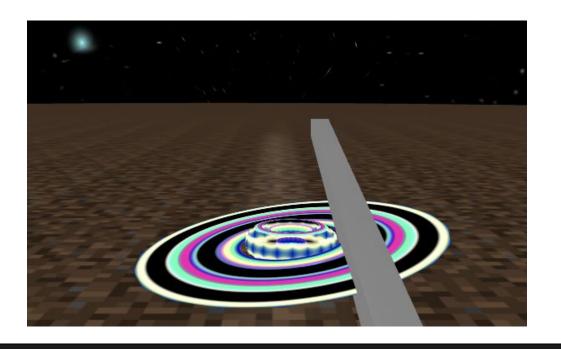
Ground (Minecraft Theme!!)

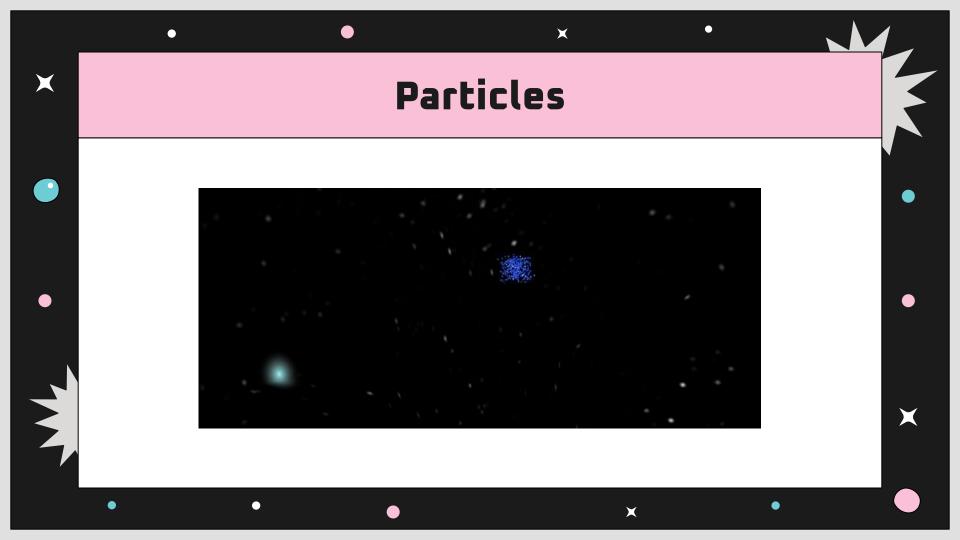


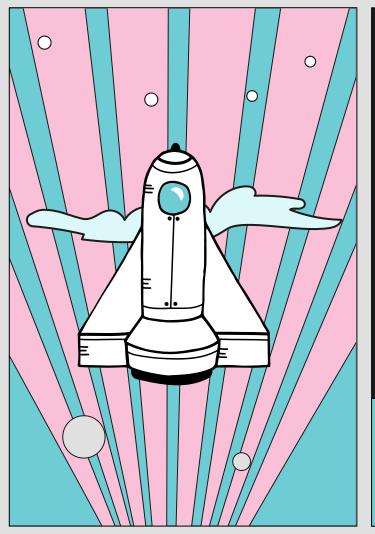
Ground Spinners (us vs. real life)



Collision Detection









Thank you, questions?