Adam Zhu

Ranged Weapons

MechMechanics

Weapon Handler

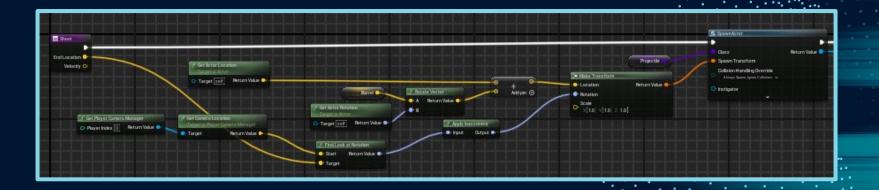
Merging

Ranged Weapon

The base **RangedWeapon** class contains all important information about the weapon such as name, reload, projectile it shoots, and cost.

All ranged weapons **extend** this class, which includes functionality for shooting and animations.





Ranged Weapon Variants

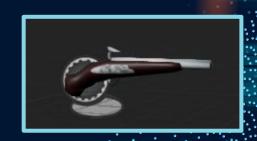
Some ranged weapons like the **Scrap Spitter** are fully automatic, meaning that you can shoot quickly just by holding down the mouse.

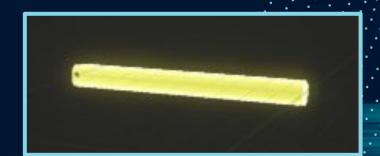
Other ranged weapons like the **Flintlock** are **Hitscan** based with instant projectiles.

The **Minigun** is both fully automatic and hitscan based.









Projectile

The base **Projectile** class contains damage, explosion size, and **ProjectileMovement** component.





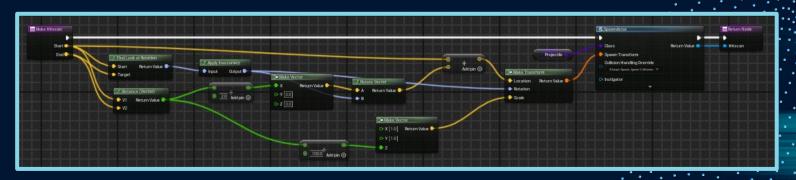


A Closer Look: The Hitscan

The **Hitscan** projectile is a yellow beam, representing a tracer that traveled through the air. Damage is applied at the other end of the hitscan.

Weapons that use hitscans must override the **Shoot** function and have another function to spawn in the hitscan properly.





WeaponHandler Component

The **WeaponHandler** component handles all weapon functionality for the player.

Since all ranged weapons are children of the RangedWeapon class, it is much easier for the WeaponHandler component to implement weapon functionality.



