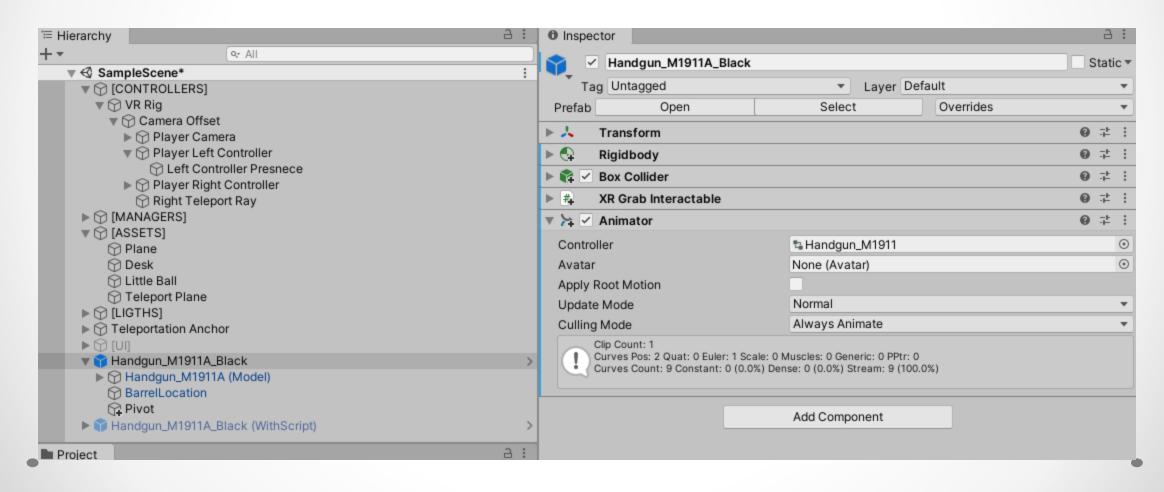
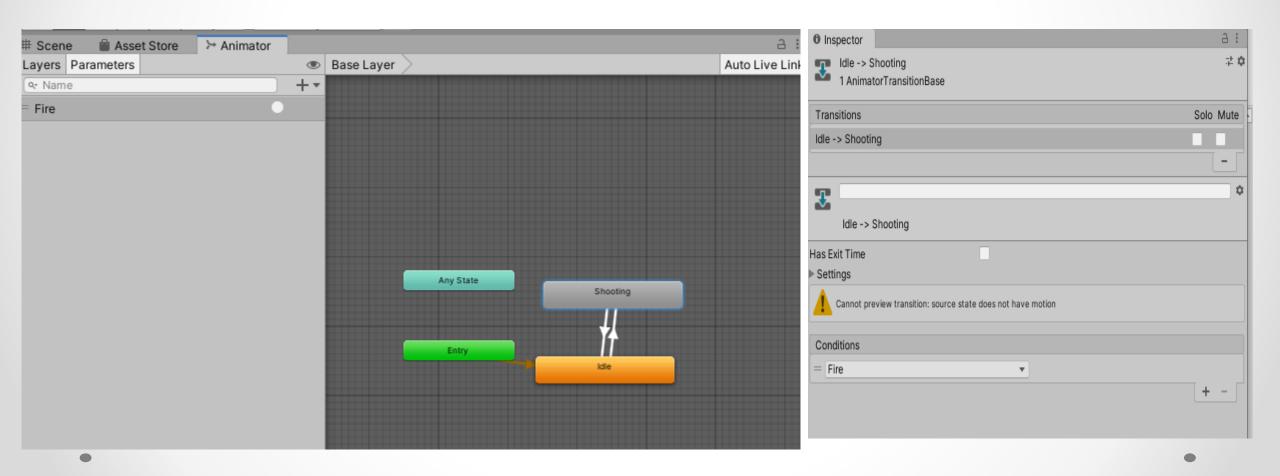
그래스핑심화, 총잡기 및 총알 발사!

1. 이준

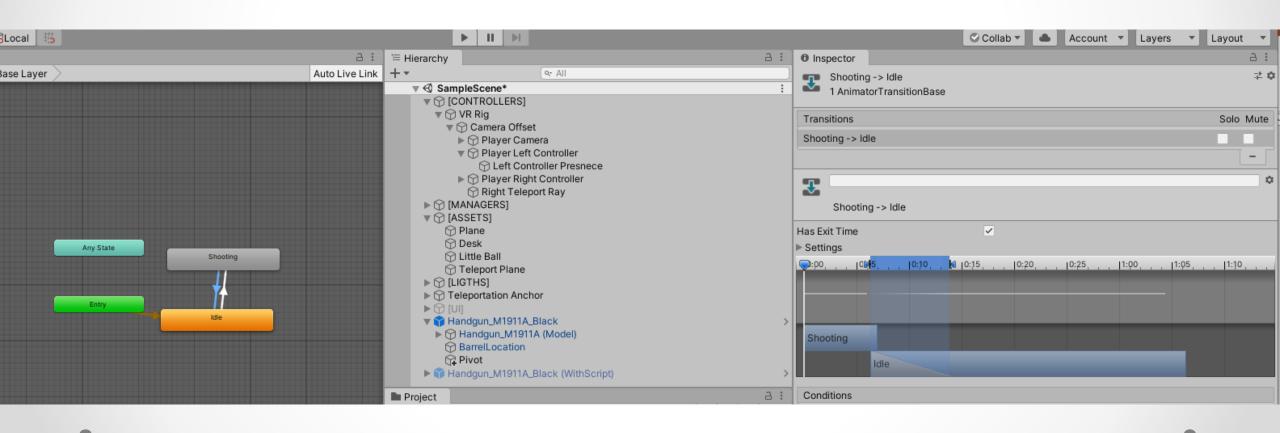
• 애니메이터 추가 Hangun_M1911 설정!



• Fire 라는 이벤트에 Shooting 애니메이션 실행!

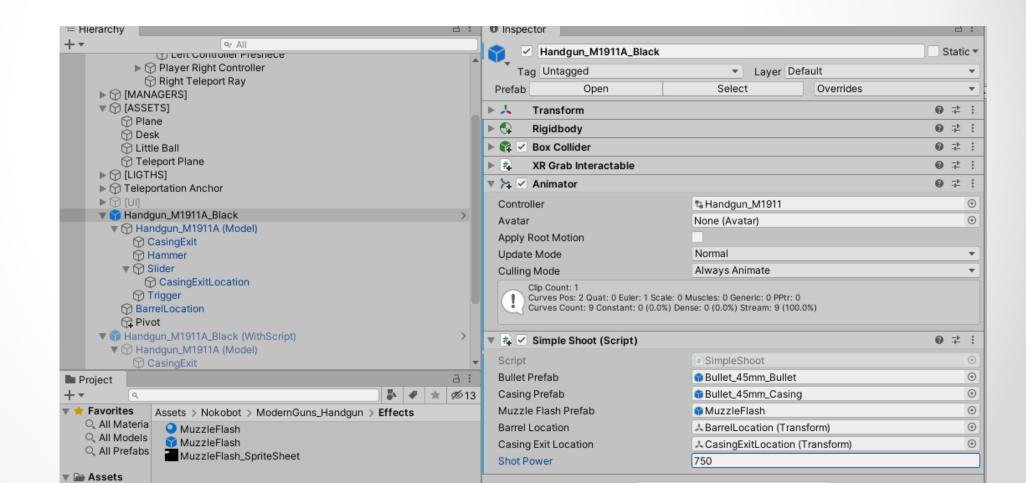


• 슈팅 애니메이션 종료후 다시 idle 애니메이션으로 돌아옴!



```
□public class SimpleShoot : MonoBehaviour
     public GameObject bulletPrefab;
     public GameObject casingPrefab;
     public GameObject muzzleFlashPrefab;
     public Transform barrelLocation;
     public Transform casingExitLocation;
     public float shotPower = 100f;
     void Start()
         if (barrelLocation == null)
             barrelLocation = transform;
     void Update()
         if (Input.GetButtonDown("Fire1"))
             GetComponent<Animator>().SetTrigger("Fire");
     public void Shoot()
        GameObject tempFlash;
        Instantiate(bulletPrefab, barrelLocation.position, barrelLocation.rotation).GetComponent<Rigidbody>().AddForce(barrelLocation.forward * shotPower);
        tempFlash = Instantiate(muzzleFlashPrefab, barrelLocation.position, barrelLocation.rotation);
     void CasingRelease()
          GameObject casing;
         casing = Instantiate(casingPrefab, casingExitLocation.position, casingExitLocation.rotation) as GameObject;
         casing.GetComponent<Rigidbody>().AddExplosionForce(550f, (casingExitLocation.position - casingExitLocation.right * 0.3f - casingExitLocation.up * 0.6f), 1f);
         casing.GetComponent<Rigidbody>().AddTorque(new Vector3(0, Random.Range(100f, 500f), Random.Range(10f, 1000f)), ForceMode.Impulse);
```

• 다음과 같이 Simple Shoot 에 해당 부분 구현!



• 그러면 슈팅은 어떻게? Trigger 버튼 클릭시 발사로 대체!

그래스핑 심

- SimpleShoot.cs 파일 생성!
- 총을 잡았을때만 발사 되도록 변경!

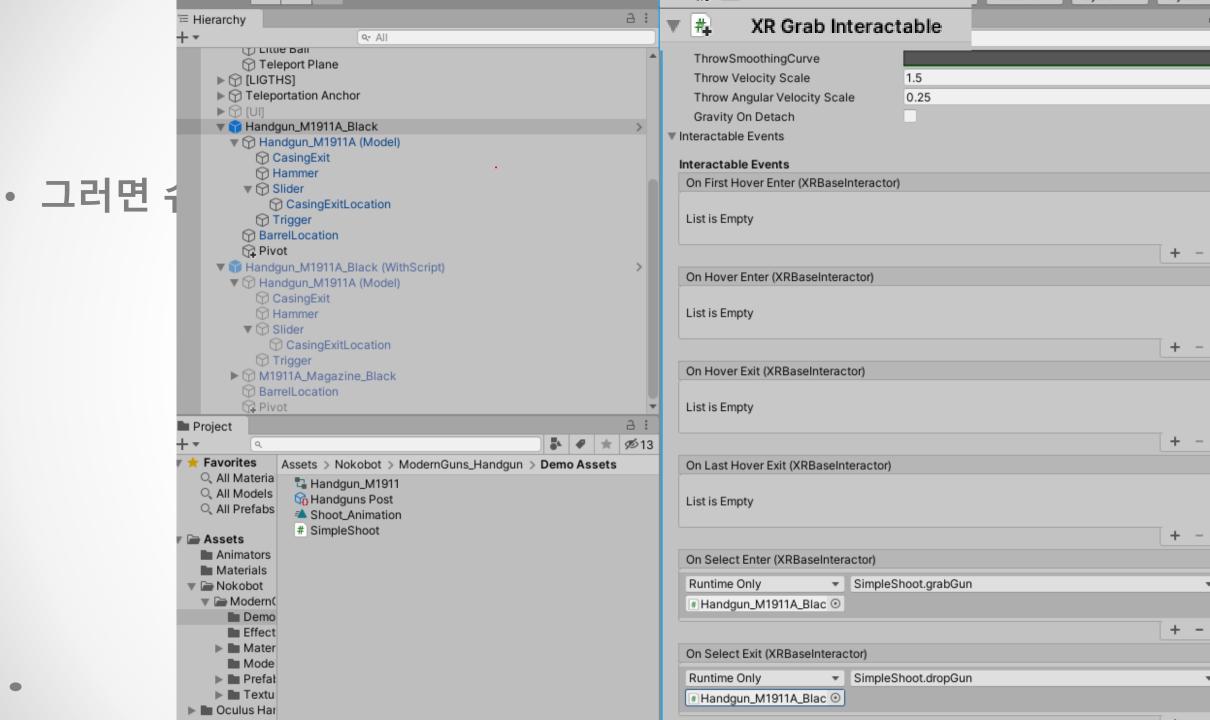
```
using System.Collections.Generic;
 using UnityEngine;
□public class SimpleShoot : MonoBehaviour
     public GameObject bulletPrefab;
     public GameObject casingPrefab;
     public GameObject muzzleFlashPrefab;
     public Transform barrelLocation;
     public Transform casingExitLocation;
     public float shotPower = 100f;
     public bool isGrab = false ;
     void Start()
         if (barrelLocation == null)
             barrelLocation = transform;
     void Update()
         if (Input.GetButtonDown("Fire1"))
             GetComponent<Animator>().SetTrigger("Fire");
     public void grabGun()
         isGrab = true;
     public void dropGun()
         isGrab = false;
```

instile phacemicorrections,

• 총을 잡았을때만 발사 되도록 변경!

```
public void Shoot()

{
    if (isGrab == true)
    {
        GameObject tempFlash;
        Instantiate(bulletPrefab, barrelLocation.position, barrelLocation.rotation).GetComponent<Rigidbody>().AddForce(barrelLocation.forward * shotPower);
        tempFlash = Instantiate(muzzleFlashPrefab, barrelLocation.position, barrelLocation.rotation);
}
}
```



• CustomController 수정! – HandGun 객체 담기!

```
CustomController.cs -> X Assets\Nokobot\M...s\SimpleShoot.cs
Assembly-CSharp

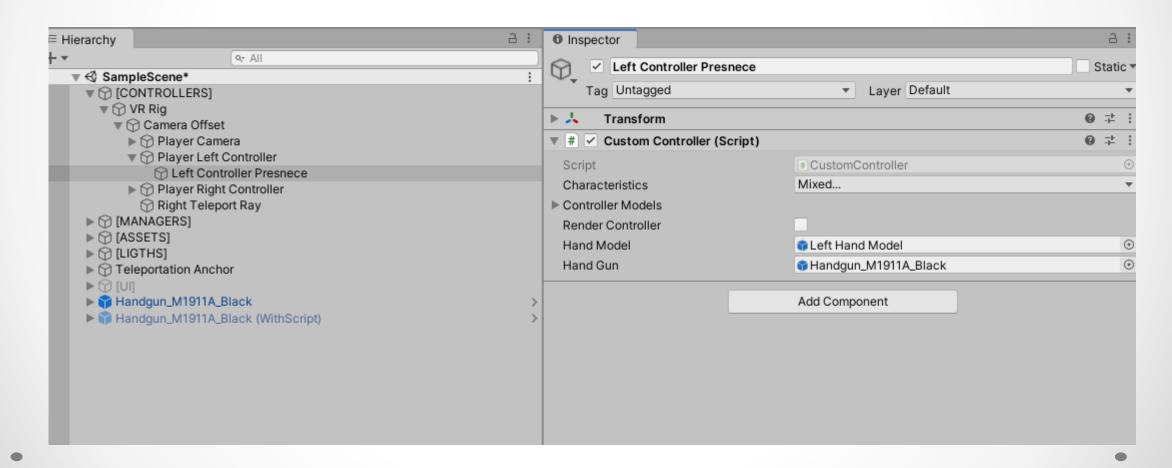
    CustomControll

          □using System.Collections;
            using System.Collections.Generic;
            using UnityEngine;
            using UnityEngine.XR;
            using UnityEngine.XR.Interaction.Toolkit.UI;
          □public class CustomController : MonoBehaviour
                public InputDeviceCharacteristics characteristics;
                [SerializeField]
                private List<GameObject> controllerModels;
                private GameObject controllerInstance;
                private InputDevice availableDevice;
                public bool renderController ; // Hand와 Controller 사이를 변경할 변수
                public GameObject handModel; // 핸드 모델
                private GameObject handInstance; // 핸드 인스턴스
                private Animator handModelAnimator; // 핸드 모델 애니메이션 변수
                public GameObject HandGun;
```

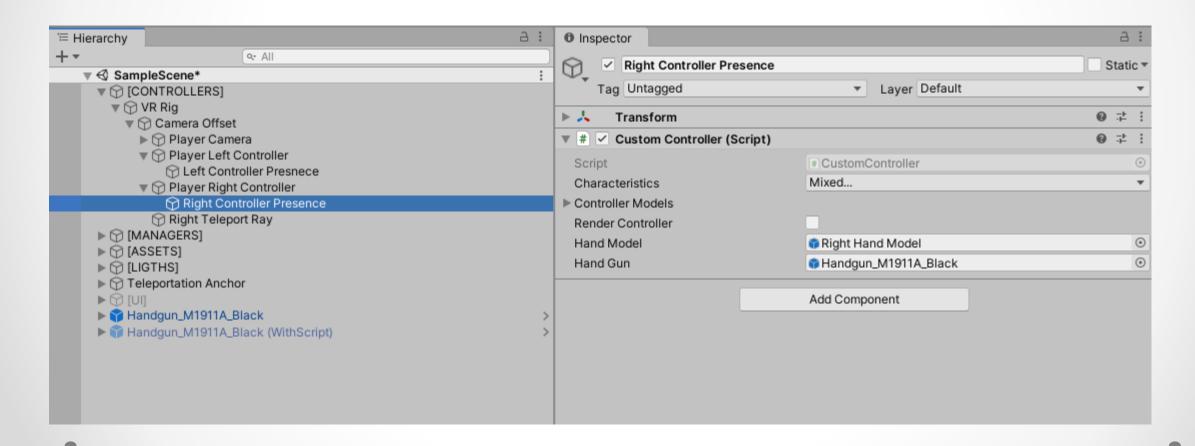
• Update 함수에서 triggerButton 클릭시, SimpleShoot 컴포넌트의 Shoot 발사

```
void Update()
   if (!availableDevice.isValid)
       TryInitialize();
   if (renderController)
       handInstance.SetActive(false);
       controllerInstance.SetActive(true);
       handInstance.SetActive(true);
       controllerInstance.SetActive(false);
       UpdateHandAnimation(); // 핸드 애니메이션은 여기서만 수행
   if (HandGun != null)
       bool menuButtonValue;
       if (availableDevice.TryGetFeatureValue(CommonUsages.triggerButton, out menuButtonValue) && menuButtonValue)
           HandGun.GetComponent<SimpleShoot>().Shoot();
```

• Left Controller Presence 설정!



• Right Controller Presence 설정!



그래

• 테스트 및 검토

- 단발 슛으로 변경 필요
- 사운드 이펙트 필요
- 왼손 오른손 구분 필요!

