Bush\_Sniper\_V1.0

16. Aug: 00:00-3:00

* created new project
  + Changed Physics2D.gravity to (0,0) in Project Settings
  + Added Environment(Plane as a Ground, Cubes as Obstacles) to Scene
  + Added Player to Scene. Contains:
    - Graphics
      * PlayerModel
      * Gun
        + Barrel
        + Decoration1
        + Decoration2
      * Camera
  + Added two Dummy Sprites and a material for the Environment and player to the Assets
  + Added two new Scripts to Player-root-object:
    - PlayerController: handles all of the input and stuff like are we jumping? what way should we be looking?
    - PlayerMotor: has a set of funcitons to move the player, make him jump, fly shoot, etc. kind of like an ability-script
  + As new rule for my programming-style: Variables created withing methods(includes parameters) are prefixed with a underscore. f.e. : Object \_something
  + Added player-movement and rotation to PlayerController.cs and PlayerMotor.cs
  + For player movement, never use .getKey(A/W/S/D) again. We can get the userinput with Input.getAxisRaw(„Horizontal “) and „Vertical“, then we can calculat the velocity from these two floats and multiply it with the speed of the player. Also use a rigidbody and rb.MovePosition(...) and rb.MoveRotation(...) and velocity for smooth movement.
  + If you can’t add a Script, make sure the ClassName and ScriptName are the same.
  + Added CameraController, which is responsible for synchronizing the players and cameras x and y position
  + WIP: add gun rotation and fix movement bug

16. Aug: 12:25-12:45

* finished gun rotation, had to calculate an angle with Atan :)
* changed Movement from playerAxis-driven to AWSD
* Code cleanup
* Testing: Movement and rotations are very very smooth, even if we don’t build the game.