



## Top Down Side-to-Side Shooter Prefab ReadMe

**Tutorial Video:** [https://youtu.be/z2dFwjNHZ\\_4](https://youtu.be/z2dFwjNHZ_4)

### Definition:

This Unity prefab consists of a square player object that moves between two set points on the game scene. It holds a circular weapon that can swivel between angles to fire bullets – all customizable to your game. This prefab is meant for top-down Unity games.

### Scripts:

**FinalBossMovement.cs:** Controls to move shooter player (aka: FinalBoss) between two points

**FBWeapon.cs:** “FinalBoss” weapon script with parent FBWeapon class to fire bullets from a firepoint

**AutomaticWeapon.cs:** Subclass of FBWeapon with automatic firing override function, specifically destroying bullets after a lifetime

**BulletCollisionHandler.cs:** Attached to bullets, destroy upon collision

**SwivelHead.cs:** Attached to FBWeapon and can rotate between certain angles

### Game Objects:

**topPoint:** Placed on screen as movement boundary

**bottomPoint:** Placed on screen as movement boundary

**FBWeapon:** Circle sprite used to attach AutomaticWeapon script or SwivelHead script for customization

**FinalBoss:** Square sprite used for shooter player, can be customized

**firePoint:** Attach to FBWeapon script, point from which bullets fire

**bulletPrefab:** Attach to FBWeapon script, customize how bullets look

### Unity Store Download:

1. Open your Unity project
2. Go to Window > Asset Store
3. Search for “Top Down Side-to-Side Shooter Prefab” in the search bar
4. Download it and all its assets
5. Import into your Unity game
6. (Note: this prefab is publicly available to download from a Google Drive folder [here](#))
  - a. In your Unity game, right click inside the Assets folder > Import Package > Custom > Select prefab download
  - b. Uncheck “Tests” folder, you only need “Scripts” folder checked



### Implementation:

1. Drag your shooter to where you'd like it to be in the game
2. In the “FinalBoss” folder, adjust the x,y-coordinates for the topPoint and bottomPoint game objects
  - a. X coordinates should be the same as the shooter's
  - b. Y coordinates are inverses of each other (e.g. 7 and -7)
  - c. Z should be set to 0



## Top Down Side-to-Side Straight Shooter Prefab ReadMe

### Customization:

1. The following can all be customized on the following in the Hierarchy:
  - a. “TopDownSideotSideStraightShooter”
    - i. Player sprite, player speed, top point prefab, bottom point prefab, bottom point Y (for boundary checking in scripts)
  - b. “FBWeapon”
    - i. Weapon sprite, bullet sprite, fire speed, rounds per minute, bullet velocity, fire point, bullet lifespan, swivel angles

