# Custom Scenes for H

Refer to this document for extra set-up needed for custom scenes to function in H correctly.

Navigation

During H, both the player and the partner can navigate the map, therefore **Colliders** and a **NavMeshSurface** is needed.

Make sure to place colliders appropriately to prevent the player from falling out of the map or reaching locations not intended to be reached. If you intend to have a lot of colliders, you can simplify collisions and improve performance by using basic shape colliders instead of complex mesh colliders.
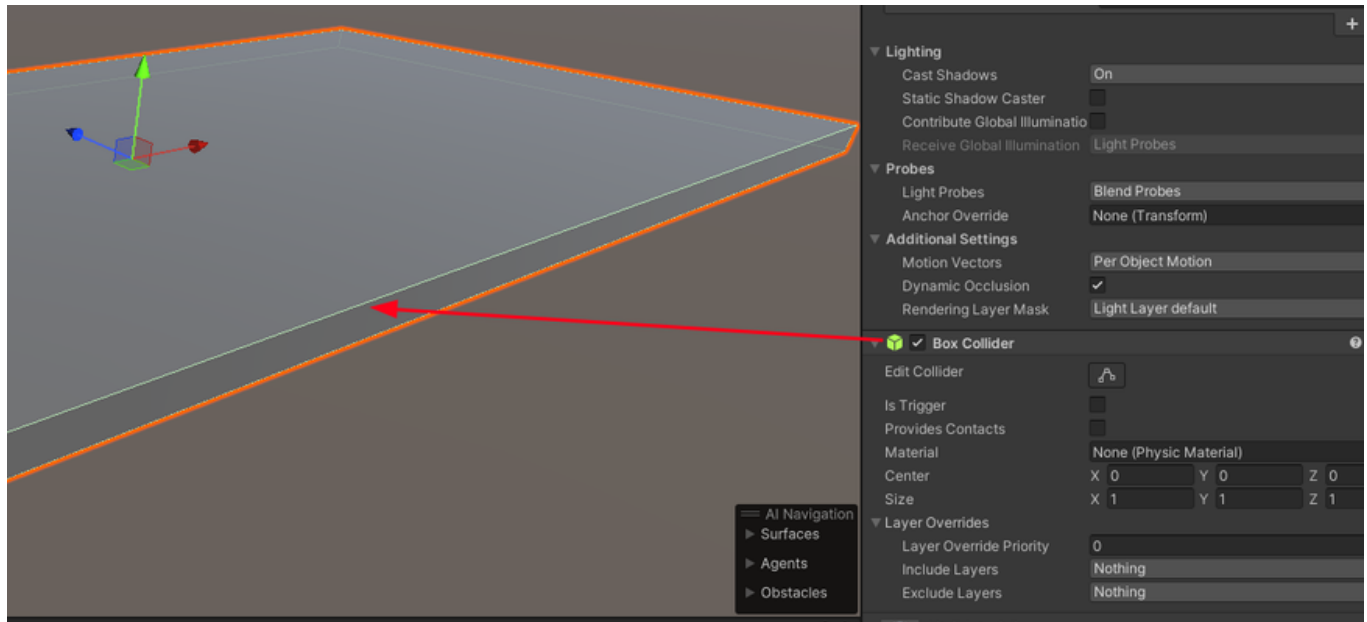

NPCs use a navigation mesh to walk around and therefore need one to exist in the scene. Assign a **NavMeshSurface** component and click the **Bake** button to bake the mesh. Make adjustments as needed.
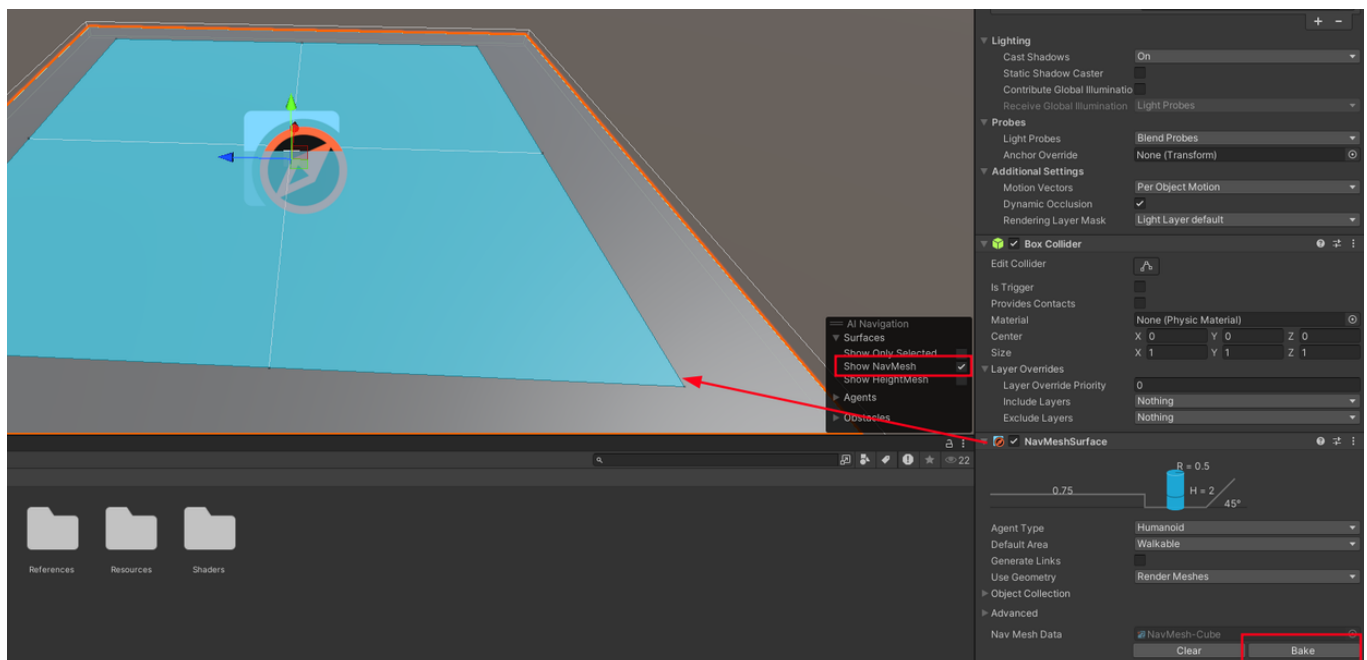
To handle rare cases where the player might still fall out of the map, you should create a deathplane GameObject placed under the map that has the **DeathPlaneController** component and an appropriately sized large **Box Collider** component marked as a trigger. Make sure the object containing the collider is set to the **DeathPlane** layer.

Create another GameObject which is where the player will be teleported to in-case the deathplane is reached and assign it alongside the collider to the controller.
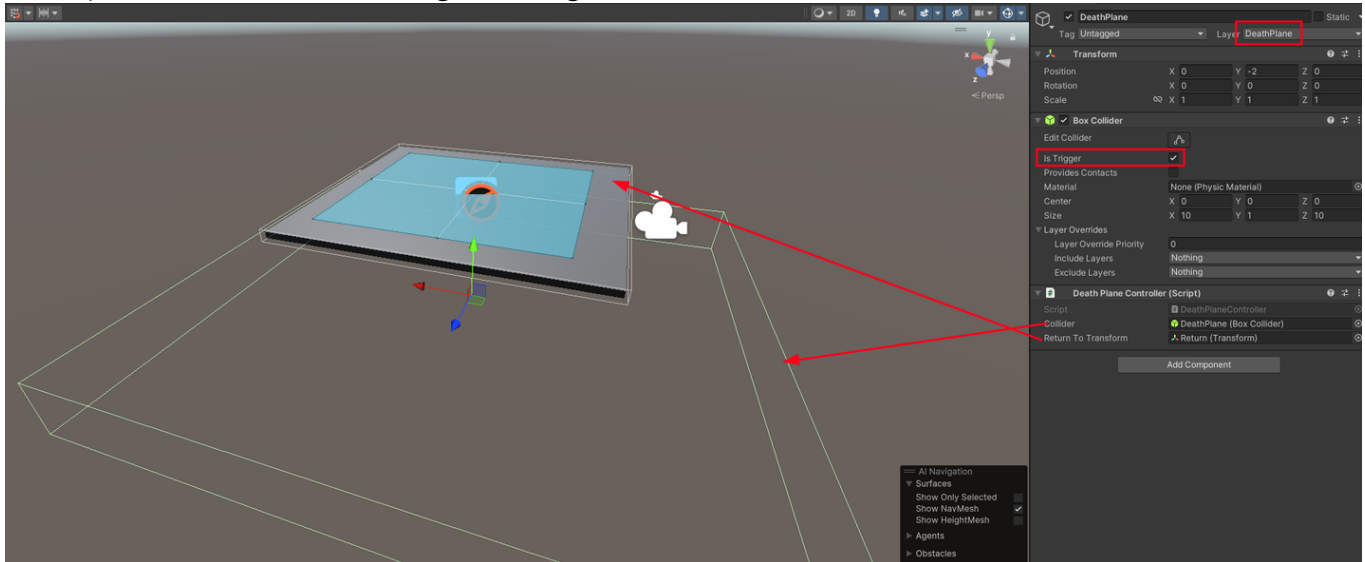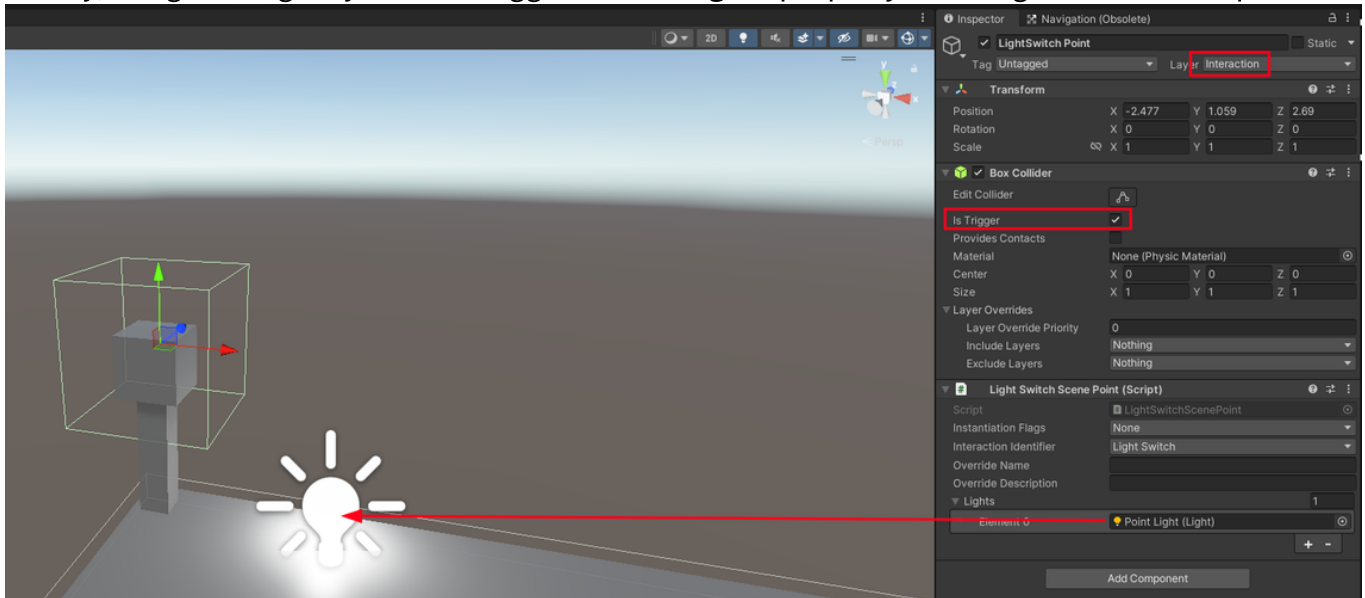
Interactions

Parts of the scene can be interactable, for example doors and light switches.

Light Switch

This interaction is used to toggle lights. To set it up, right click the Hierarchy and create a **Light Switch Scene Point** by using the *ScenePoint -> LightSwitch Point* menu item.

After calling the menu item, a new GameObject should be created with a collider and the lightswitch scene point. Make sure the objects layer is set to **Interaction**. Adjust the location of the object to be where you want your light switch to be. Keep the collider larger to make it easier to find the interaction.

Finally, assign the lights you want toggled to the **Lights** property of the lightswitch scenepoint.

Door

This interaction is used to open and close doors. To set it up, please refer to the `Studio Components` documents **Door Controller** section. Make sure that the object which has the controller component has its layer set to **Interaction**.

Character Locations

When starting H, characters are spawned at origin (0, 0, 0). This might not be acceptable with most scenes and a custom location should be used.

To set it up, right click the Hierarchy and create a **Character Location Scene Point** by using the *ScenePoint -> CharacterLocation Point* menu item. Move the object as needed to position where the character is spawned and what direction they will face.

Set the **Usage Option Flags** to **Initial, Before Play** and set the **Character Index** to either 0 (player) or 1 (partner). It is recommended to create two of these scene points, one for each participant.
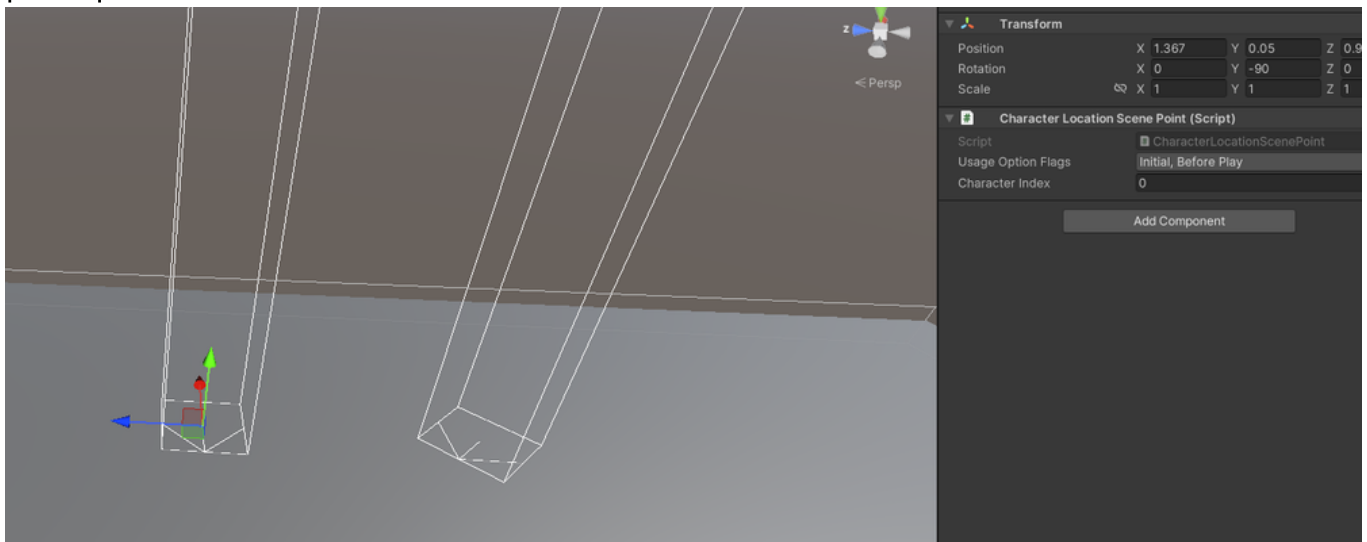
H Locations

To allow H in various locations and play more animations, you should set up H locations for the custom scene.

There are currently 3 types of location:

- Flat
    - Standing or lying down on a flat surface.
- Seated
    - Sitting down on an edge of a surface like a bed.
- Wall
    - Leaning on or against a wall.

Each location type plays different animation types and requires different placement.

To create a H location, right click the Hierarchy and create a **HLocation** by using the *ScenePoint -> HLocation Point* menu item. Assign a **Name**, for example Table, Bed - Edge, Floor. Then, assign a **Type** for a custom gizmo to appear which should assist in placement of the location.

Make sure the object is set to the **Interaction** layer, collider is set to be a Trigger and is of an appropriate size.