```
1 using System.Collections;
 2 using System.Collections.Generic;
 3 using UnityEngine;
 4 /* Translates Game levels into readable data for scripts
 6
    * NOTE: we may be able to remove playerPos and merge it with the player entirely
 7
 8
 9
10 public class FloorDetection : MonoBehaviour
11 {
12
        static public int CurrentLevelNumber()
13
       {
14
            LayerMask playerMask = LayerMask.GetMask("Room"); // Grabs layermask to →
               filter all but our rooms.
15
           GameObject player = GameObject.Find("PlayerPos"); // Grabs player
              position.
           Vector2 playerPos2D = new Vector2(player.transform.position.x,
16
             player.transform.position.y);
                                                       // Convert playerPos to
                                                                                       P
             vector.
17
            RaycastHit2D playerCollider = Physics2D.Raycast(playerPos2D,
             Vector2.zero, Mathf.Infinity, playerMask); // Cast a ray from player to →
               detect which floor we
18
                                                                                       P
                                   // are on.
            string currentFloorString =
19
             playerCollider.collider.gameObject.name;
                   // Convert collider name to string for translation.
20
21
           if (currentFloorString == "Level
              // Translates levels into ints.
22
            {
23
                return 1;
24
            }
25
           else if (currentFloorString == "Level 2")
26
            {
27
                return 2;
28
29
           else if (currentFloorString == "Level 3")
30
            {
31
                return 3;
32
            }
           else if (currentFloorString == "Level 4")
33
34
35
                return 4;
36
            }
37
           else if(currentFloorString == "Level 5")
38
            {
39
                return 5;
40
           else if(currentFloorString == "Level 6")
41
```

```
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                                                                                         2
42
43
                 return 6;
44
             }
45
             else if(currentFloorString == "Level 7")
46
             {
47
                 return 7;
48
             }
49
             else if(currentFloorString == "Level 8")
50
             {
51
                 return 8;
52
             }
53
54
                                                                                   // 0 7
             return 0;
               if no floor detected
55
        }
56
        static public int TargetLevelNumber(Touch touch)
57
58
             LayerMask playerMask = LayerMask.GetMask("Room");
                                                                                   //
               Filters all layers but Room.
59
60
            Vector3 touchPos = Camera.main.ScreenToWorldPoint(touch.position); //
               Convert touchPos into Vector2
61
             Vector2 touchPos2D = new Vector2(touchPos.x, touchPos.y);
             RaycastHit2D touchCollider = Physics2D.Raycast(touchPos2D, Vector2.zero,
62
               Mathf.Infinity, playerMask); // Cast ray from touch.
63
64
             string targetFloorString =
                                                                                         P
               touchCollider.collider.gameObject.name;
                                                                                         P
                     // Convert collider name to string for translation.
65
66
             if (targetFloorString == "Level
               1")
                                                                                         P
                // Translates levels into ints.
             {
67
68
                 return 1;
69
             }
70
             else if (targetFloorString == "Level 2")
71
72
                 return 2;
73
             }
74
             else if (targetFloorString == "Level 3")
75
             {
76
                 return 3;
77
             }
78
             else if (targetFloorString == "Level 4")
79
             {
80
                 return 4;
81
82
             else if (targetFloorString == "Level 5")
83
             {
84
                 return 5;
85
```

```
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                                                                                               3
             else if (targetFloorString == "Level 6")
 87
              {
 88
                  return 6;
 89
              }
             else if (targetFloorString == "Level 7")
 90
 91
 92
                  return 7;
 93
 94
             else if (targetFloorString == "Level 8")
 95
 96
                  return 8;
 97
                                                                                        // 0 >
 98
             return 0;
                if no floor detected
99
         }
100
101 }
102
```