



Unity D3

📅 Day	Thursday
☰ Theme	Skills
📅 Type	Daily
➤ Core Projects	</> <u>Solo Farm Game Udemmy</u>
📊 Progress	0
☑ Checkbox	<input type="checkbox"/>
☑ Checkbox 1	<input type="checkbox"/>
📅 Date	@June 12, 2025 9:30 AM → 11:30 AM
☰ Sub Goal	
⚙ Status	Not started

Lesson Progress

→ end of square pond generation

▼ pond generator

```
public TileBase tileCenter;  
public TileBase tileTop;  
public TileBase tileBottom;  
public TileBase tileLeft;  
public TileBase tileRight;  
public TileBase tileOuterTopLeft;  
public TileBase tileOuterTopRight;  
public TileBase tileOuterBottomLeft;
```

```

public TileBase tileOuterBottomRight;
public TileBase tileInnerTopLeft;
public TileBase tileInnerTopRight;
public TileBase tileInnerBottomLeft;
public TileBase tileInnerBottomRight;

public void GeneratePond(int pondWidth, int pondHeight, int xOffset, int yOffset)
{
    Debug.Log("Generating Pond...");

    if (tilemap == null)
    {
        Debug.LogWarning("Tilemap is not assigned!");
        return;
    }

    for (int x = 0; x < pondWidth; x++)
    {
        for (int y = 0; y < pondHeight; y++)
        {
            TileBase tileToPlace = tileCenter;
            // Corners
            if (x == 0 && y == pondHeight - 1)
                tileToPlace = tileOuterTopLeft;
            else if (x == pondWidth - 1 && y == pondHeight - 1)
                tileToPlace = tileOuterTopRight;
            else if (x == 0 && y == 0)
                tileToPlace = tileOuterBottomLeft;
            else if (x == pondWidth - 1 && y == 0)
                tileToPlace = tileOuterBottomRight;

            // Borders
            else if (y == pondHeight - 1)
                tileToPlace = tileTop;
            else if (y == 0)
                tileToPlace = tileBottom;
        }
    }
}

```

```

        else if (x == 0)
            tileToPlace = tileLeft;
        else if (x == pondWidth - 1)
            tileToPlace = tileRight;

        // Center (default is tileCenter, so nothing to do)

        tilemap.SetTile(new Vector3Int(x + xOffset, y + yOffset, 0), tileToPlace);
    }
}

```

▼ editor window

```

private int    pondWidth;
private int    pondHeight;
private int    pondx;
private int    pundy;

private void OnEnable()
{
    pondGenerator = FindFirstObjectByType<PondGenerator>();
}

void OnGUI()
{
    pondWidth = EditorGUILayout.IntField("Pond Width", pondWidth);
    EditorGUILayout.Space();
    if (GUILayout.Button("Generate Pond"))
        pondGenerator.GeneratePond(pondWidth, pondHeight, pondx, pundy);
}

```

→ Adding collisions to the tilemap

- add tilemap collider
- add composite collider
 - tilemap composite op → merge

- rigidbody type → kinematic

→ new tilemap objects