



Feature Detailing
Scale
2023

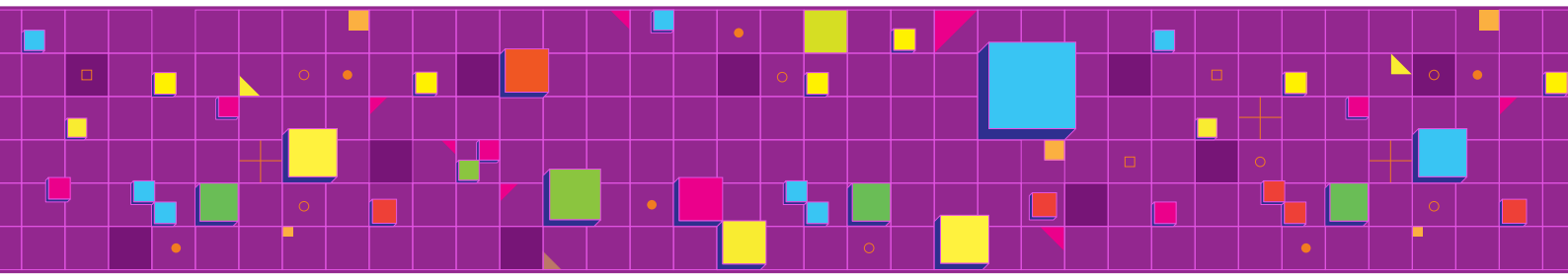




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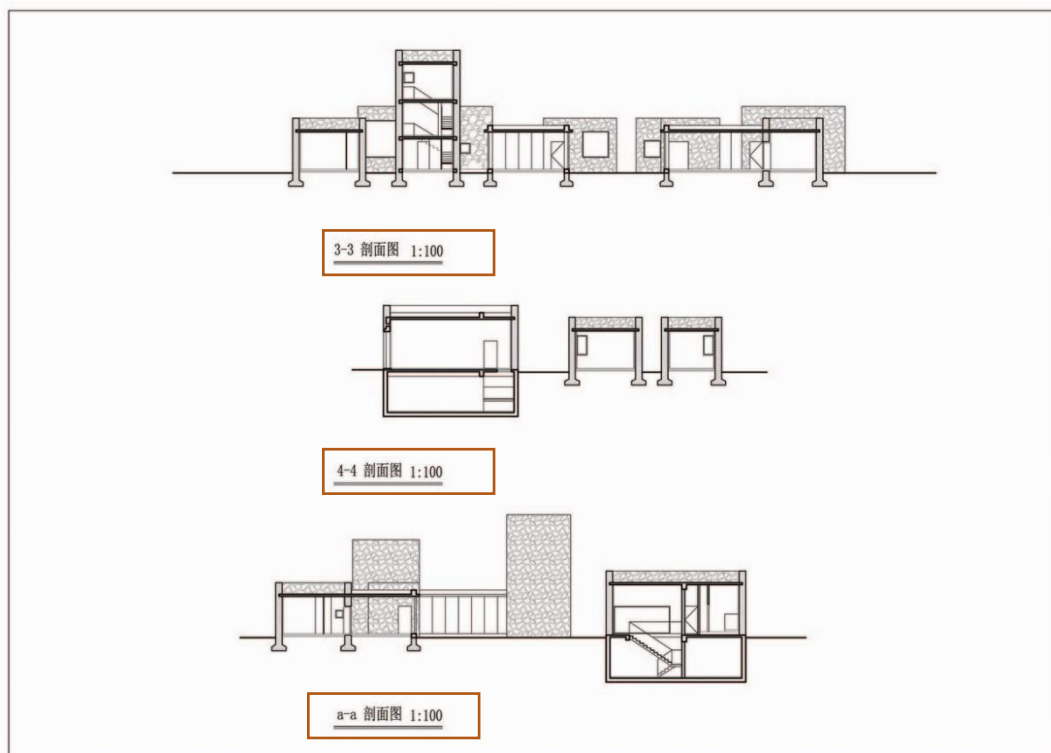
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Introduction

Drawing scale refers to the relationship between the size of an object in real life and its representation on a drawing or presentation board. Scale is typically represented as a ratio or fraction, such as 1:100 or 1/8 inch to 1 foot. This means that for every unit of measurement on the drawing, such as an inch or centimetre, there is a corresponding number of units in real life.

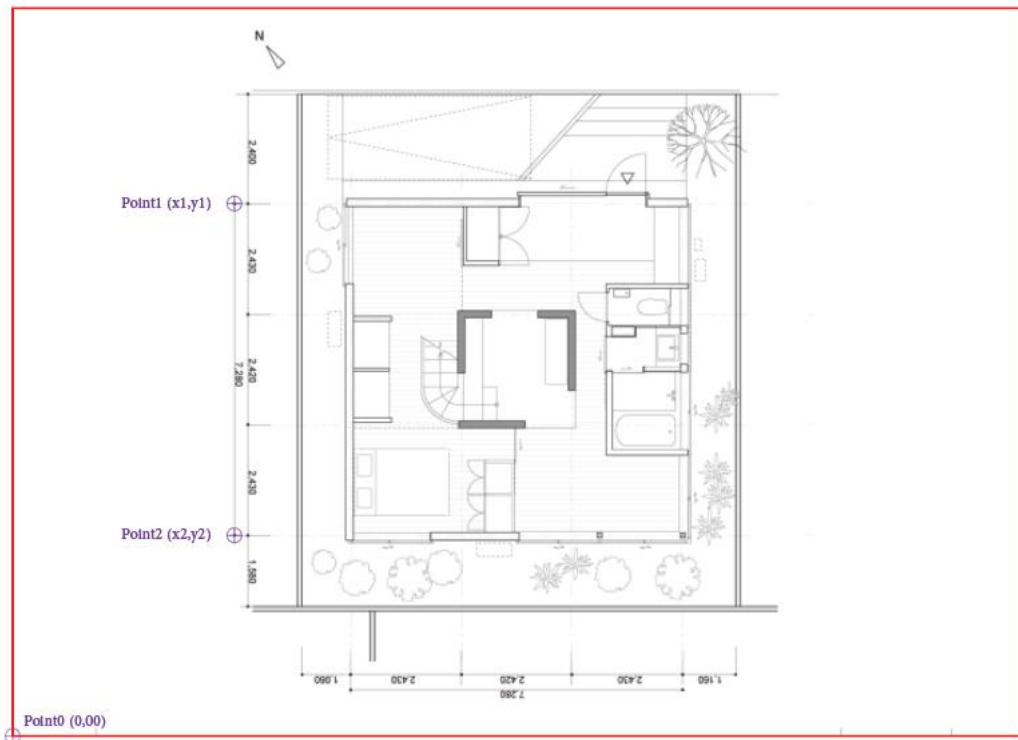


Using the correct drawing scale is crucial to accurately communicate the size and proportions of the objects and spaces being represented. When designing a building or structure, there are many different elements that need to be considered, such as room sizes, window and door placements, and exterior features like rooflines and balconies. By using a consistent scale across all of the drawings in a presentation board, the developer can ensure that these elements are accurately represented and easy to understand.

Here is a step by step on how to implement.

Step1:user define two points on the drawing

When importing any graphics, user will have to define two points in the drawing to use as a reference for scale. The points will be defined relative to bottom left corner which should be (0,0)



Step2: user define real life distance between points

The user should input the real life distance between point1, point2 which is: 7.28m in this example.

Step3:Measuring distance

After importing the graphics, point0 will be positioned somewhere in the workspace, point0 should have the coordinates relative to the workspace and this will change the coordinates for point1, point2 accordingly.

We measure the distance between the two points in the same unit of the workspace.

let's assume that the distance between the two point is: 3 CM

Step4: Getting Scale Factor

Depending on the scale we can extract the scale factor

Scale Factor= (real life measurement*(Scale))/(distance between points)

	Scale	RLM	RLM Scaled	Scale Factor	New Distance
1:100	0.01	7.28	0.0728	2.426666667	0.0728
1:200	0.005	7.28	0.0364	1.213333333	0.0364
1:150	0.006667	7.28	0.048533333	1.617777778	0.048533333
1:10	0.1	7.28	0.728	24.26666667	0.728
1:50	0.02	7.28	0.1456	4.853333333	0.1456

Step5: Scale the drawing with the scale factor

Scale the drawing uniformly using the scale factor

Important notes:

- Each graphic will have its points saved with it to use it in scaling
- All measurement will be saved using (Meter) and metric system if user is using another unit the conversion will be done later.

