

Irregular Buildings in 3D design mode

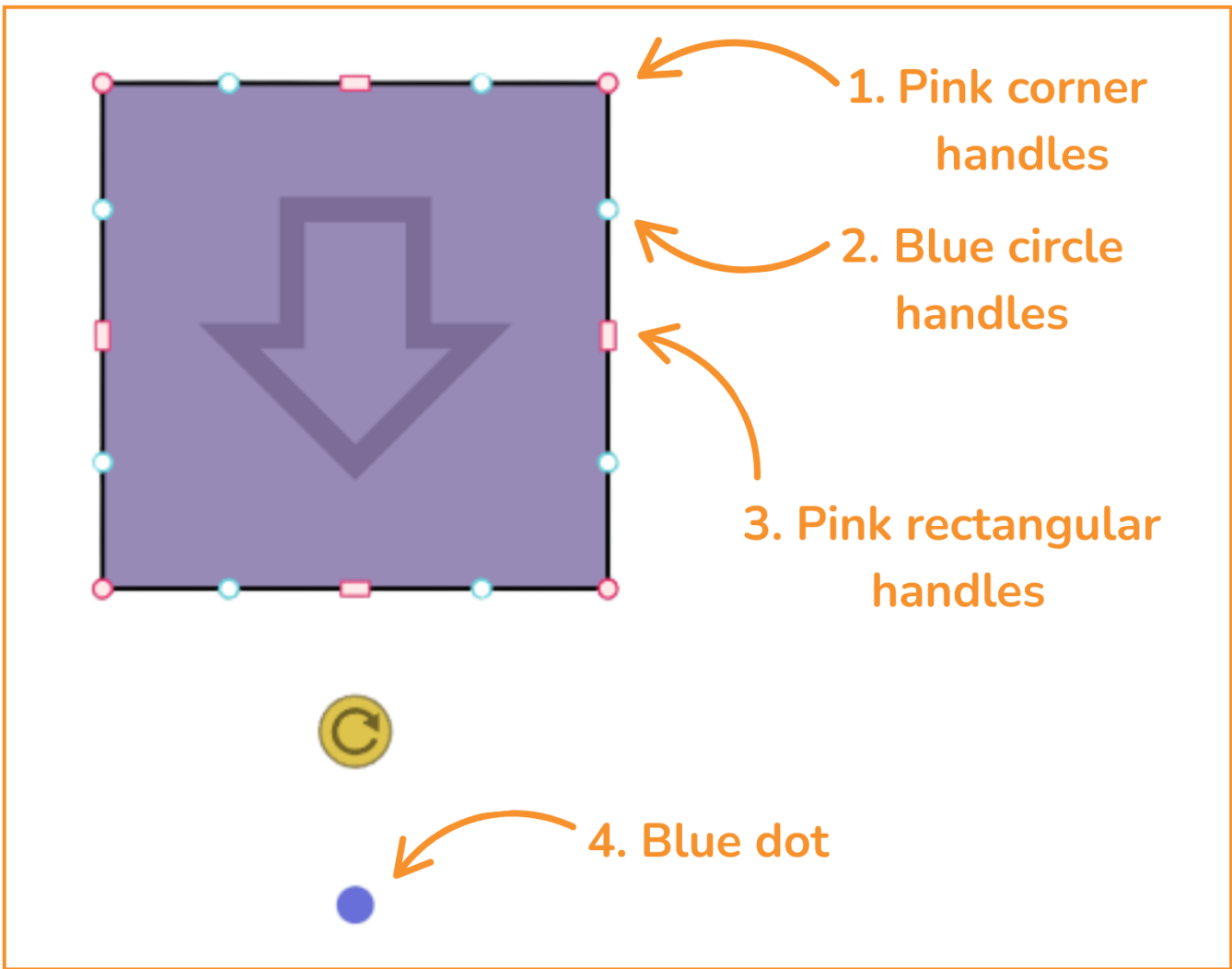
The irregular building tool allows you to create unusual roof shapes that cannot be modelled using the standard roof options.

Using irregular building tool

The irregular building tool can be found at the bottom of the Misc. section on the 3D left side-bar.



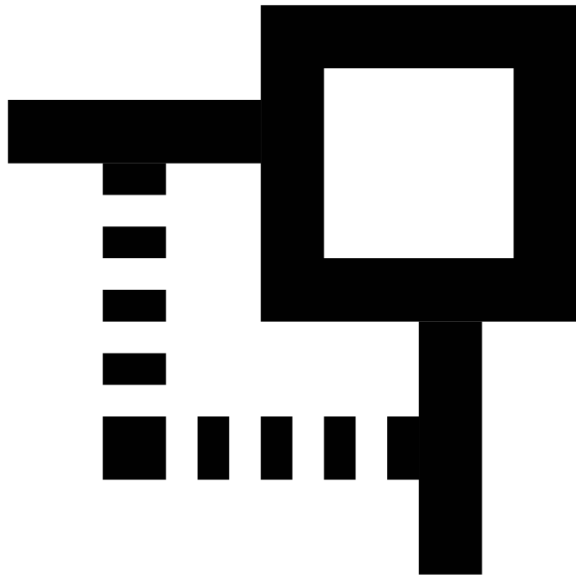
When creating a roof using the irregular building tool, there are a variety of additional handles you can use to accurately adjust the shape of the roof:



1. Pink corner handles

Click the **pink corner handles** to show dimensions of the associated roof sides. You can then click on the values to manually change these.

Click on the pink corner handles to use the following options:



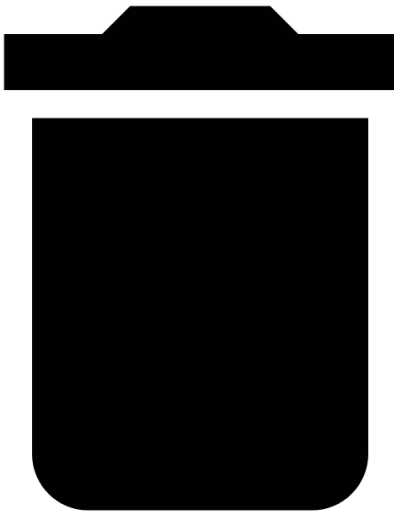
Square corner handle

Use to resize the roof whilst keeping the adjacent sides at the **same angle**.



Circle corner handle

Use to move that point **independently** of the other points to create angled sides. This is the default option for the irregular building tool.



Delete

Delete the corner. This option is only available if there are 4 or more corners on a roof.

See [Example 1](#).

2. Blue circle handles

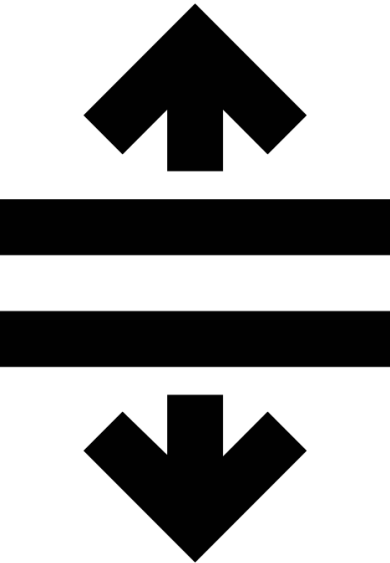
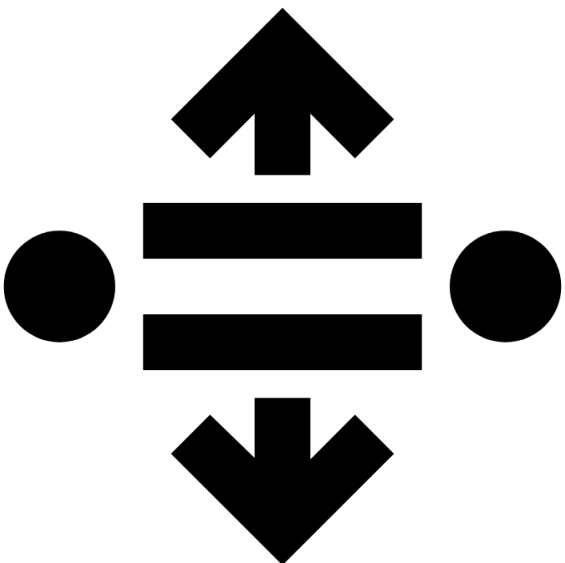
Click and drag the **blue circle handles** to allow you to split a side and create irregular shapes.

These will then convert to pink handles which you can delete if needed.

See [Example 2](#).

3. Pink rectangular handles

Use the rectangular handle to resize the roof. Click on the **pink rectangular handles** to toggle between a square and curved cornered handles:

 A black icon representing a square cornered handle. It consists of a central horizontal bar with two shorter horizontal bars above and below it. From the top center of the upper bar, a thick black arrow points upwards. From the bottom center of the lower bar, a thick black arrow points downwards.	<p>Square cornered handle Use to extend a roof side out.</p>
 A black icon representing a curved cornered handle. It features the same central horizontal bar and upper/lower bars as the square handle. However, the upper and lower bars are curved. Additionally, there are two solid black circles, one on the left and one on the right, positioned between the upper and lower bars.	<p>Curved cornered handle Use to extend the adjoining rood side independently of the others. This will create new corners and sides which can be deleted by clicking on the corners and then the bin icon.</p>

See [Example 1](#) and [Example 2](#).

4. Blue dot

Drag the **blue dot** below the yellow rotation icon to indicate the direction that the panels will face. Whichever direction the arrow is facing is the panel and roof pitch direction.

See [Example 1](#).

Examples

See below for some examples that demonstrate using the irregular building tool on actual roofs.

Example 1

<https://www.youtube.com/embed/KNO8iM43D1E>

Example 2

<https://www.youtube.com/embed/BdH4Nj57c-g>

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