

Documentation box import

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Documentation : box import

1. Introduction

Boxes are extruded rectangles, located, named, that can have a comment and belong to a group. These boxes can be imported into MySurvey.

2. Boxes file

The file containing the boxes is a "xml" file. Boxes must necessarily be contained in group tags. These tags have some attributes to be interpreted by MySurvey.

```
<group groupName="Gr1" color="250,0,0"></group>
```

- `groupName` : name of the group where the box will be placed.
- `color` : the colour must be indicated in rgb with each value separated by commas.

Box tags are self-closing tags with some attributes. The set of attributes of a box allows to characterize it precisely.

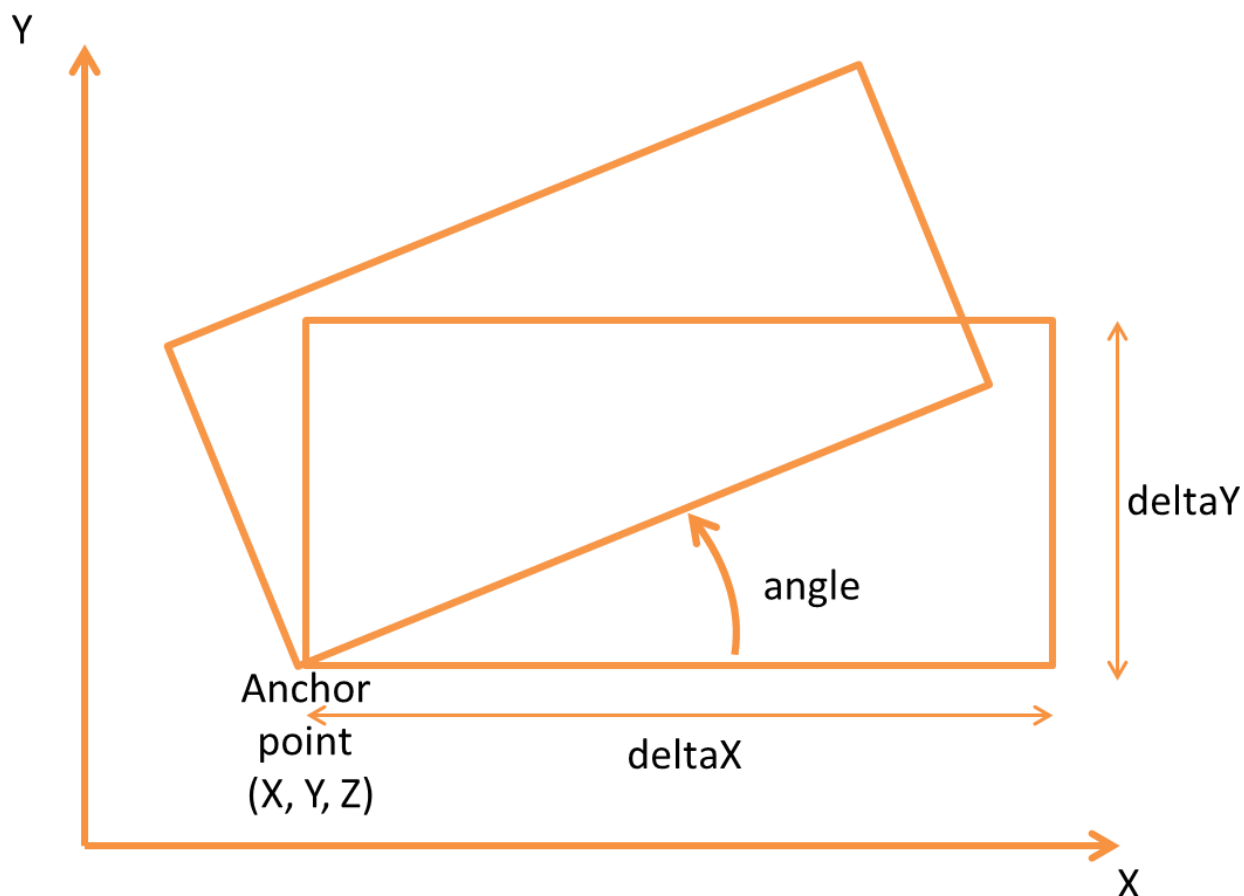
```
<box boxName="Rect1" x="23.107" y="15.904" z="0.002" deltaX="0.9" deltaY="-0.4"
    deltaZ="0.5" rotation="30" comment="Scaffolding" />
```

- `boxName`: this parameter corresponds to the name of the extruded rectangle that will be displayed in MySurvey.
- `x`: the X coordinate of one of the base points of the rectangle.
- `y`: the Y coordinate of this same point.
- `z`: the Z coordinate of this same point.
- `deltaX`: length along the X axis. This value can be negative if the second point has a lower X coordinate.
- `deltaY`: length along the Y axis. This value can be negative if the second point has a lower Y coordinate.
- `deltaZ`: length along the Z axis. This value can be negative if the second point has a lower Z coordinate.
- `rotation`: angle in degrees between the X-axis and the rectangle, whose center of rotation is the anchor point of the rectangle. See the explanatory diagram below.
- `comment`: the text will be placed in the comment field for the box in question.

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3. Diagram

This diagram explains different variables of the rectangle in the top view. The Z axis of the height is directed towards the player.



4. Importing the boxes file

To import your boxes file(s), go to the [System/Import box list](#). You can select several files to import at the same time. These files will be imported under the « **OBJECTS** » group and the boxes will be imported either under the group indicated in the tag that includes. It is possible a posteriori to rename annotations, modify comments and change the colors of groups.

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5. Example

```
<?xml version="1.0" encoding="Windows-1252"?>
<ImportBox>
  <group groupName="Gr1" color="250,0,0">
    <box boxName="Rect1" x="23.107" y="15.904" z="0.002" deltaX="0.9" deltaY="-0.4" deltaZ="0.5" rotation="30"
comment="Scaffolding" />
    <box boxName="Rect2" x="20.160" y="15.739" z="0" deltaX="1" deltaY="-0.4" deltaZ="3" rotation="90"
comment="" />
  </group>
  <group groupName="Gr2" color="50,50,255">
    <box boxName="Rect3" x="21.993" y="16.150" z="0.003" deltaX="0.8" deltaY="-0.5" deltaZ="0.5" rotation="135"
comment="" />
  </group>
  <group groupName="default" color="">
    <box boxName="Rect4" x="24.096" y="14.336" z="0.167" deltaX="-2.15" deltaY="-0.4" deltaZ="1" rotation=""
comment="En hauteur" />
  </group>
</ImportBox>
```

In this complete example of a box import file, there are 3 groups:

- The first one is named "Gr1" and has the color RGB 250,0,0 which is red.
- The second one is called "Gr2" and has the color RGB 50,50,255 which is a blue.
- The third has the name "default" and has no defined color. It will have the color of the default MySurvey objects.

In the first group, there are 2 boxes. The first is called "Rect1". Its anchor point has the coordinates "23.107;15.904;0.002". The opposite point of the base of the rectangle has as coordinates "23.107+0.9;15.904-0.4;0.002" and it has a height of 0.5 m. The rectangle will be rotated by 30° and the commentary of this box is "Scaffolding".

For the second box, it will be rotated 90° and has no comment. For the fourth box named "Rect4", it has no rotation.