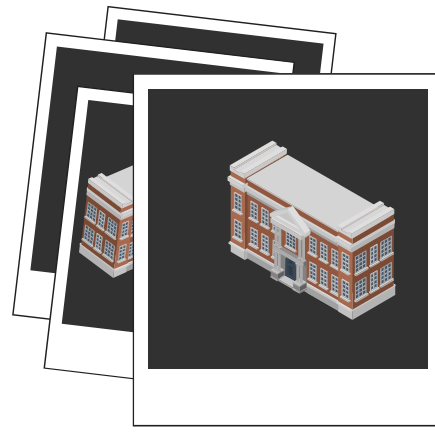




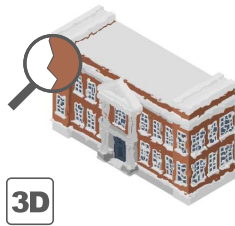
1. Upload images of the building taken every 5 degrees around the building and from the top.

These pictures are needed for the 3D reconstruction.



2. Background removal

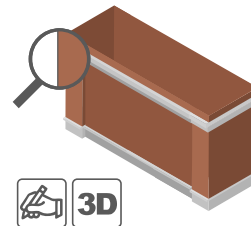
Surroundings should not be reconstructed in the next step, that's why they are removed



3D

3. 3D building reconstruction

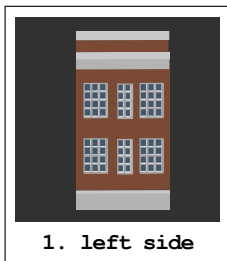
Program takes pictures of the building with an empty background and creates a 3D model



3D

4. Manually create a simplified 3D building

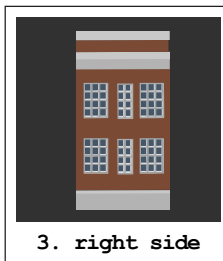
The 3D building reconstructed in the previous step has bumpy walls, so let's create a new 3D model with straight walls based on it



1. left side



2. front side



3. right side



4. back side

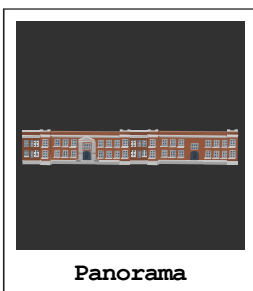
5. Upload EITHER

- front-side view images of each side of the building + transition between each side to another

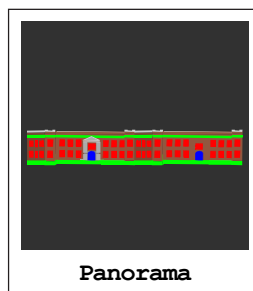
OR

- facade plans

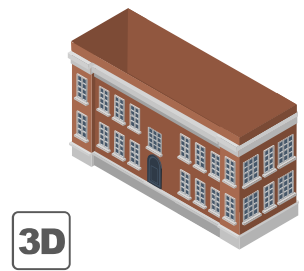
These pictures are needed for creation of walls, doors and ledges in the simplified 3D building



Panorama



Panorama



3D

6. Creation of panorama

When the mapping onto a 3D building is done it's important for all facade elements (windows, doors, ledges) to be on the same level. Panorama makes all facade elements appear on the same level.

7. Searching for facade elements (windows, doors and ledges)

Facade elements are searched in the picture so then they can be mapped onto the 3D building

8. Mapping facade elements onto the simplified 3D building

Finally, facade elements are mapped onto the 3D building, while creating holes in it