Space Modeler User Guide Generating a space model

April 26, 2023

Workflow (Windows)



Workflow (iOS)



Steps

See User Guide

'Preparing an input layout in Revit'

1. Create input layout

- 2. Upload input layout
- 3. Choose options
- 4. Start space model generation
- 5. Visualize space model online
- 6. Edit labels
- 7. Repeat 3. 6. until space model is correct
- 8. Download space model
- 9. Visualize space model offline

Run '_input_layout_zip.bat' script in project folder



28 items 1 item selected 255 bytes

Check if 'input_layout.zip' archive has been created

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Check if 'input_layout.zip' archive has been created

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Space Modeler User Guide – Generating a space model

Issue: Missing 'input_layout.ifc' (or 'input_layout.dwg')

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Solution: Check 'input_layout.ifc' file in 'input_layout_rvt' folder

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Steps

1. Create input layout

2. Upload input layout

- 3. Choose options
- 4. Start space model generation
- 5. Visualize space model online
- 6. Edit labels
- 7. Repeat 3. 6. until space model is correct
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'Create' web app: Requirements

Hardware

- Windows PC
- iOS PC
- Mobile not supported (Smartphone/Tablet)

Web browsers

- Chrome (recommended)
- Edge
- Firefox, Safari and other web browsers not tested

Open 'Create' web app on SpacePatterns site

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	Space model files (→ Always 'Clear' before uploading a new project to avoid errors			

Drag and drop 'input_layout.zip' from local project folder to 'Create' web app page



Drag and drop 'input_layout.zip' on 'Create' web app page

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Steps

- 1. Create input layout
- 2. Upload input layout

3. Choose options

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Options



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Click 'Start' button to generate space model

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Steps

- 1. Create input layout
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Click 'Visualize' button to visualize the generated space model

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'View' web app



23

Steps

- 1. Create input layout
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Edit labels

Each space or space element has multiple class labels

- Space: 'LivingRoom', 'DiningRoom', 'Hallway', ...
- Door: 'Door', 'UnitDoor', 'VisibleLightTransmissionSE', ...
- → Correct and complete labels are required for accurate space model generation and analysis

'Architectural' layouts generated from input layouts may be incomplete due to **incorrect** or **missing labels**:

- Spaces may be labeled incorrectly (e.g. 'LivingRoom' instead of 'Stairway')
- Labels of space elements may be too generic (e.g. 'Door', 'Window'), that is, more specific labels may be missing (e.g. 'UnitDoor')

Resolution of incorrect or missing labels

- 1. Remove or insert labels of spaces and space elements in the 'Architectural' layout
- 2. Regenerate space model



See User Guide 'Labeling space models' for details

Space Modeler User Guide – Generating a space model

Required labels

External air space

- Remove 'InternalSpace (IntS)' label (default label for spaces)
- Insert 'ExternalAirSpace (ExtAir)' label

Unit door (e.g. for an apartment unit)

- Remove 'RegularDoor-Encl (Do-Encl)' label (default label for doors)
- Insert 'UnitDoor (UDo)' label

Additional labels are inserted automatically by the Space Modeler system to minimize the need for manual label edits



1. Select space > 2. Enter labels > 3. Replace



1. Select space > 2. Replace



1. Select space > 2. Replace



1. Select door > 2. Enter labels > 3. Replace



Save changes to 'Create' web app



Go back to 'Create' web app



'Create' web app

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Steps

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Click 'Start' button to generate space model


Click 'Visualize' button to visualize the generated space model

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Save changes



Go back to 'Create' web app



Click 'Start' button to generate space model

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Go back to 'Create' web app



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49

Space Modeler User Guide – Generating a space model







Steps

- 1. Create input layout
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Go back to 'Create' web app



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Save 'output_layouts.zip' archive to project folder



Steps

- 1. Create input layout
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10. Edit labels offline

Move 'output_layouts.zip' from 'Downloads' folder to project folder



35 items 1 item selected 1.63 MB

877 E

Run '_output_layouts_unzip.bat' script in project folder



Check if 'output_layouts.zip' has been unzipped



Issue: Missing 'output_layouts.zip'

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Resolution: Repeat download 'output_layouts.zip' from 'Create' web app

V

Click '_edit' to open offline 'View' web app



Offline 'View' web app



Steps

- 1. Create input layout
- 2. Upload input layout
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10. Edit labels offline

Offline 'View' web app



1. Select space > 2. Enter labels > 3. Replace



Save changes



Move 'layout_label_edits.csv' from 'Downloads' folder to project folder



Run '_input_layout_zip.bat' script in project folder



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	View analysis and f	ormatting: Done!	
	Start	Visualize	Clear
	<u> </u>		
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	Space model fi		

Click 'Visualize' button to visualize the generated space model

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spacepatterns	Create	Visualize	Help
	Upload		
	'input_layout.zip': Done!		
	Select		
	Options		
	Generated views ?		
	Ignore warnings ?		
	Generate		
	View generation: Done!		
	View analysis and forma	tting: Done!	
	Start	Visualize	Clear
	Download		
	Space model files (.zip, 1.6 mb)	

'View' web app

