

SuperGallerificExpialidocious

by SchoolSound

Jean-Marc Couffin, Andrew Waring, Jacqueline Rohrmann, Christoph Raidl, Carmine Andrea Rago



- Client: me want Art Gallery!

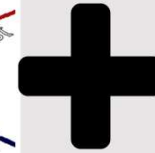
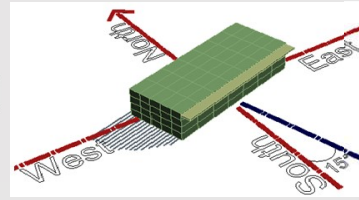
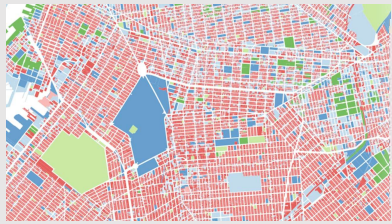


- Client: me want Art Gallery!
- Architect: Do you have a site in mind?

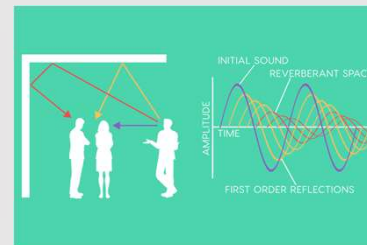
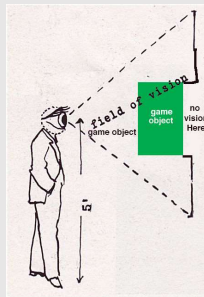


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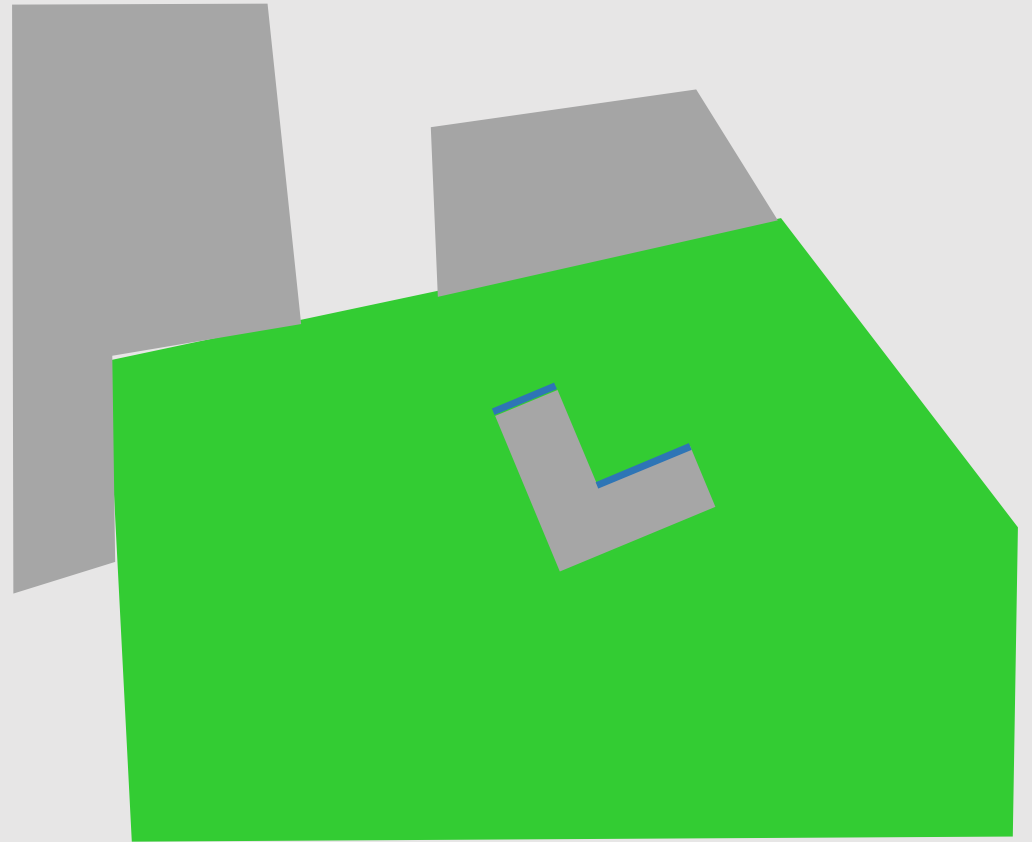


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- Architect's BIM Manager: No problem, let's fetch open data maps, optioneering on these sites starting with the building size, shape, orientation, views obstacle from the outside and sound reverberation to pick the right building on the right site
- Client: What? if it is automatic, then it is free!



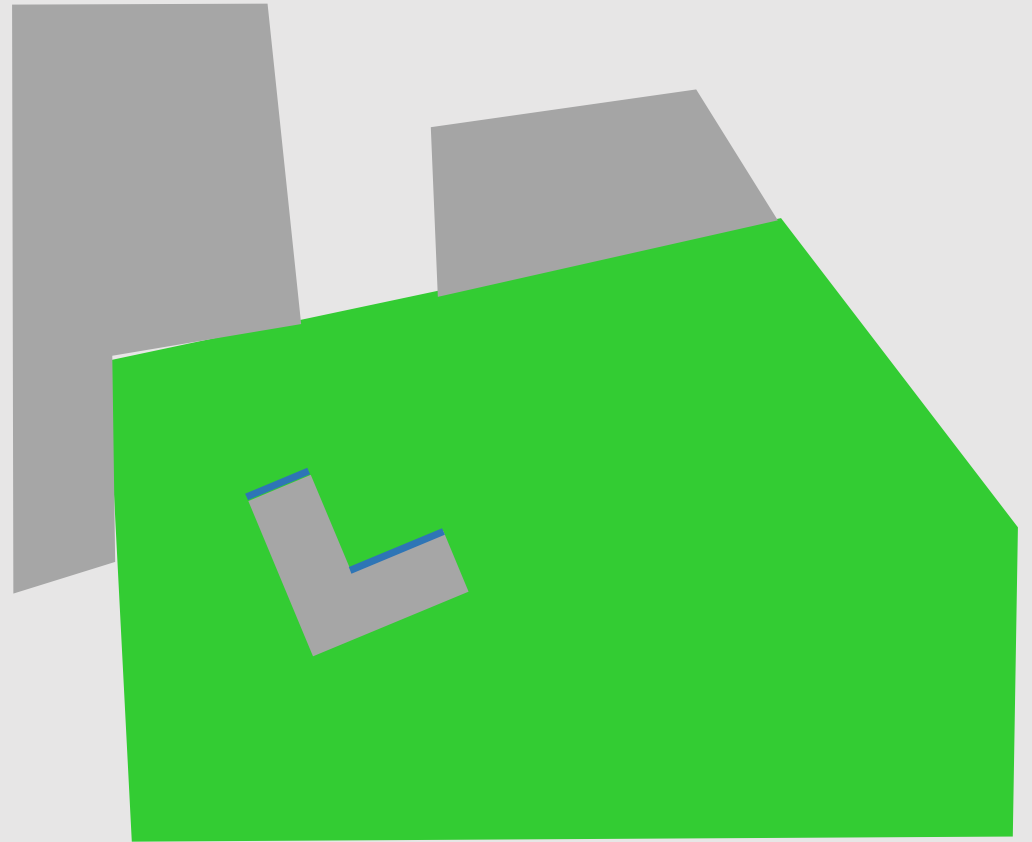
Design variables

- Position



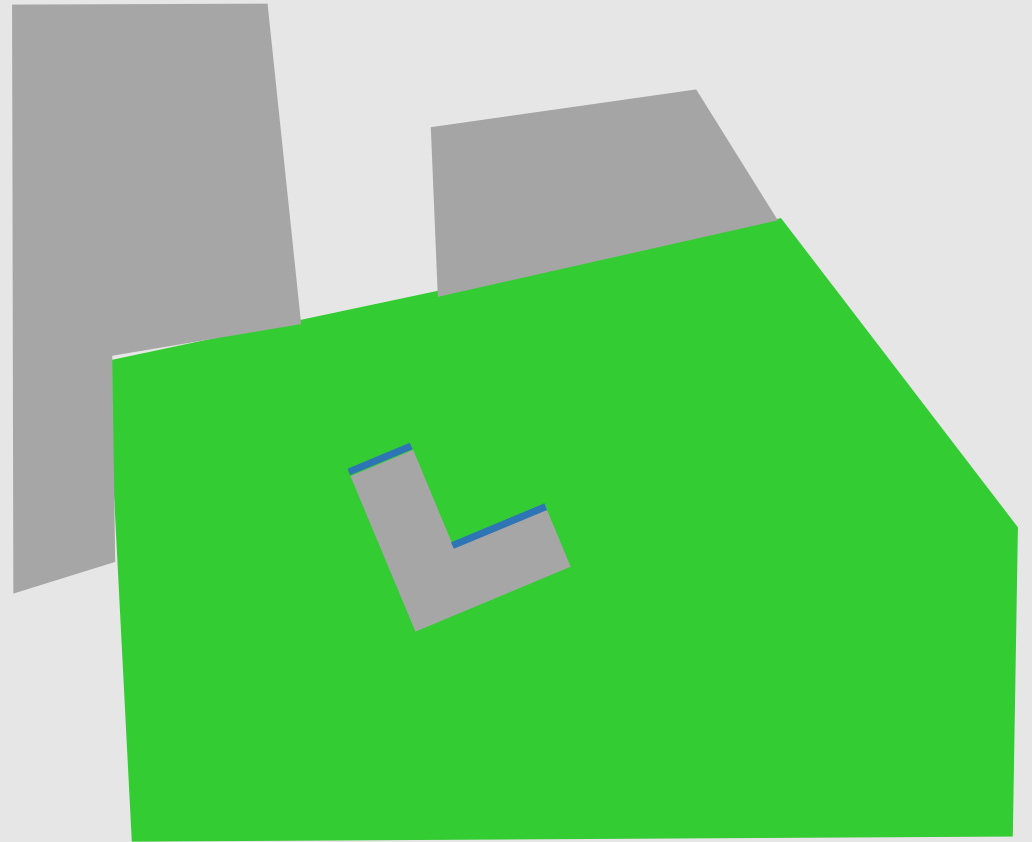
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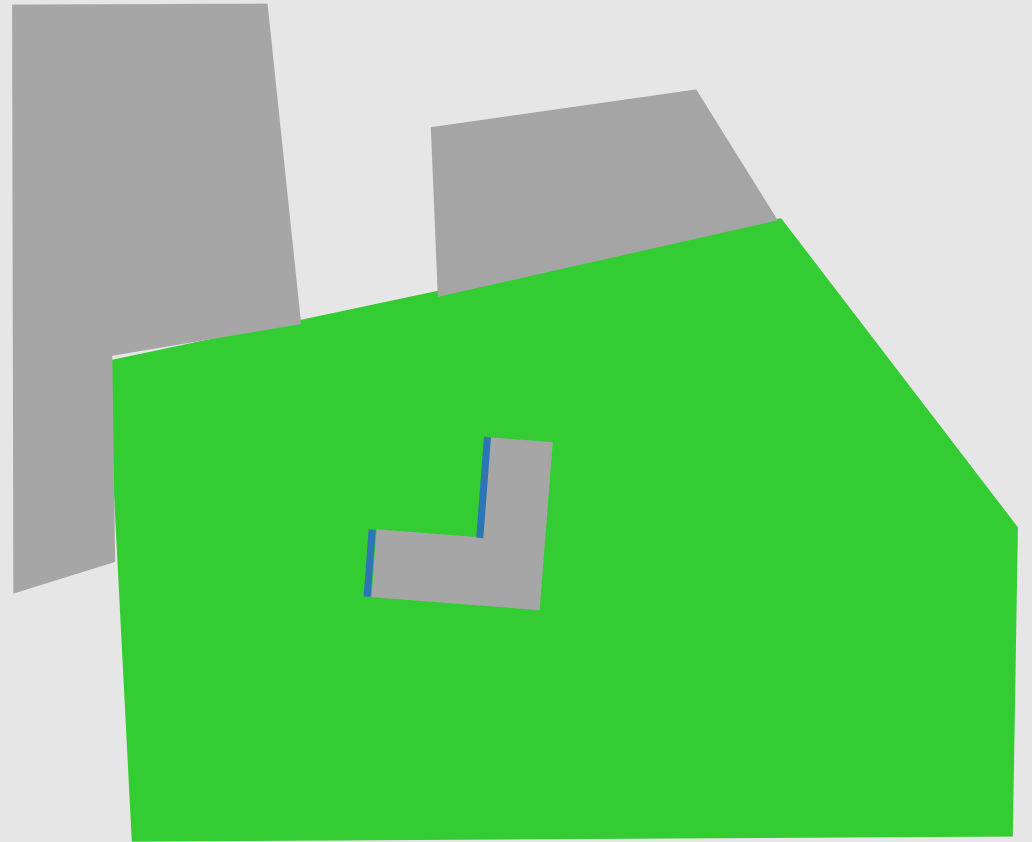
Design variables

- Position
- Rotation



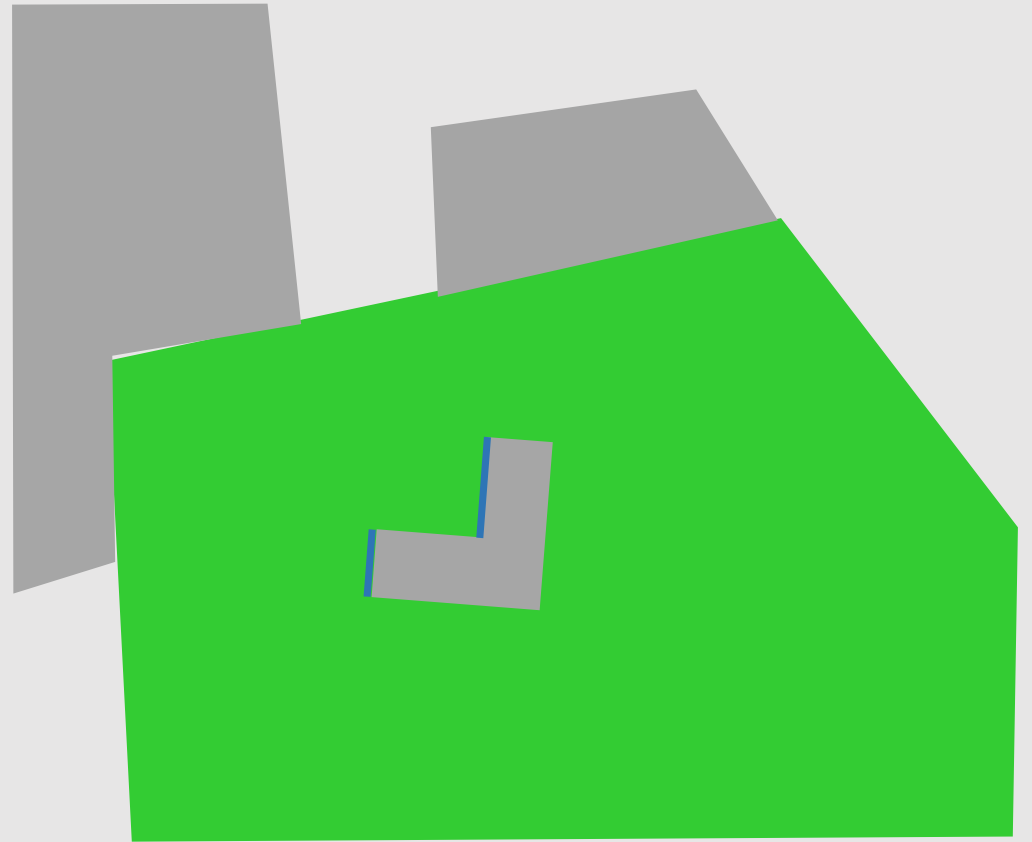
Design variables

- Position
- Rotation



Design variables

- Position
- Rotation
- Shape



Design goals

- Maximise visibility
- Minimise reverberation

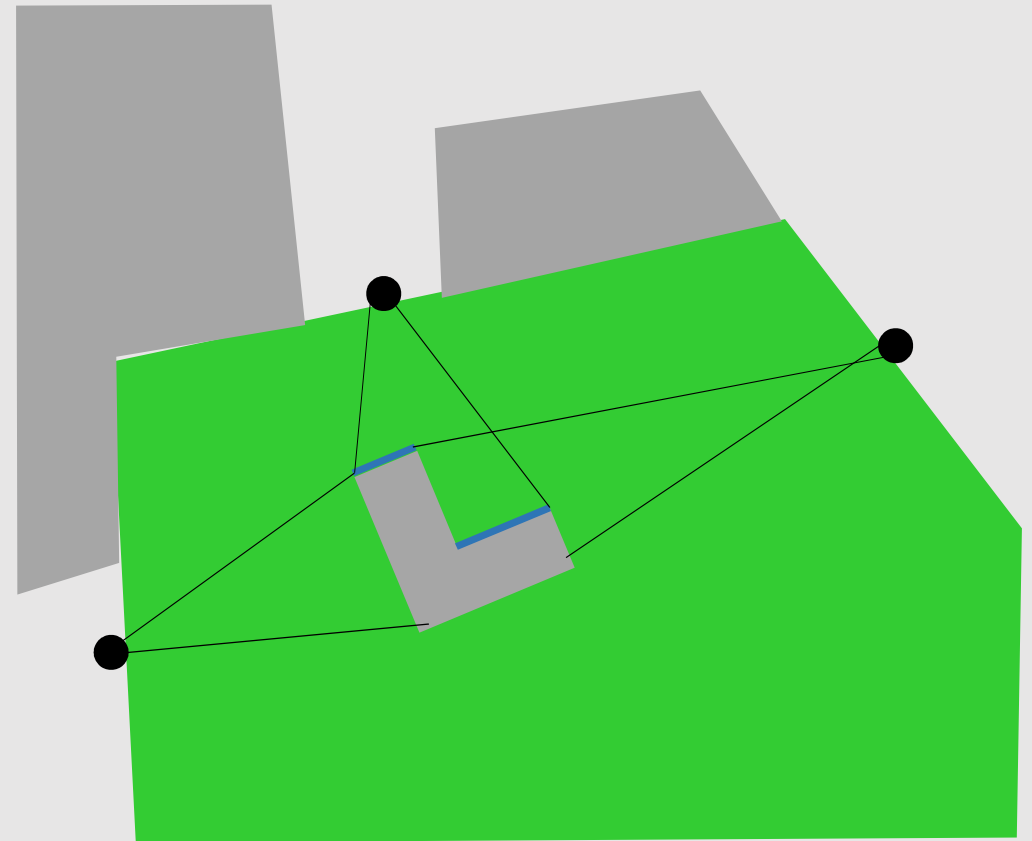


Design goals

- Maximise visibility

Based on three common public points

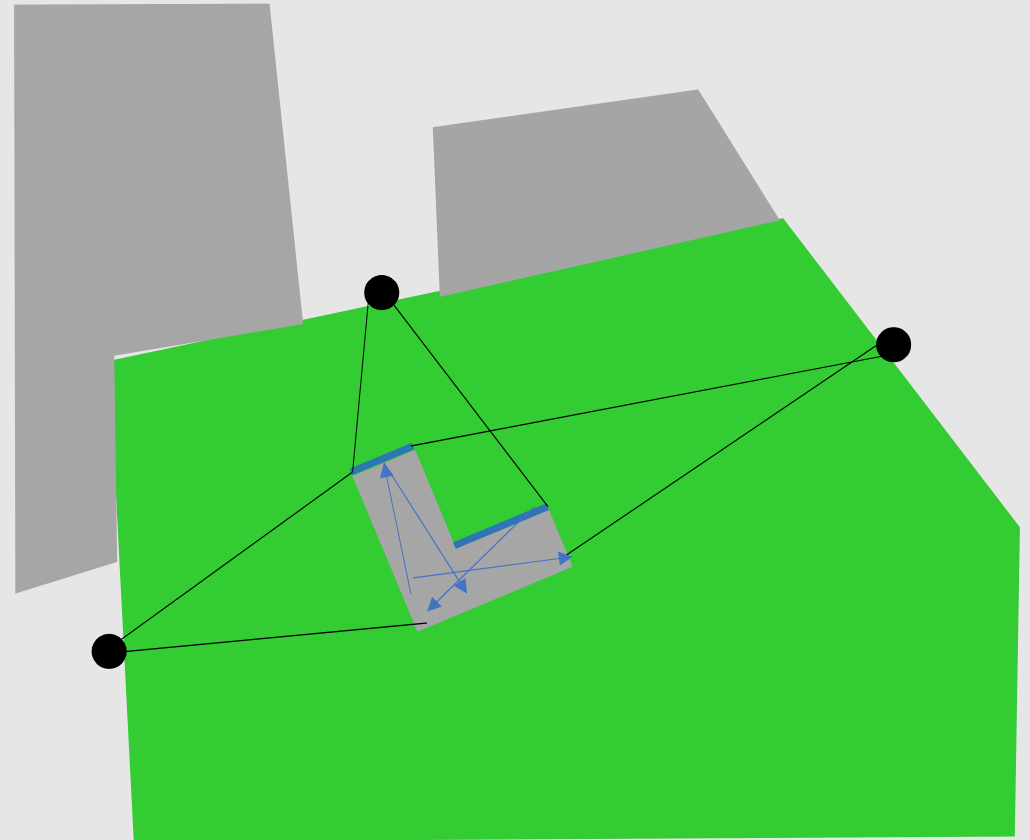
Maximise amount of paintings visible, while minimize distance from viewer

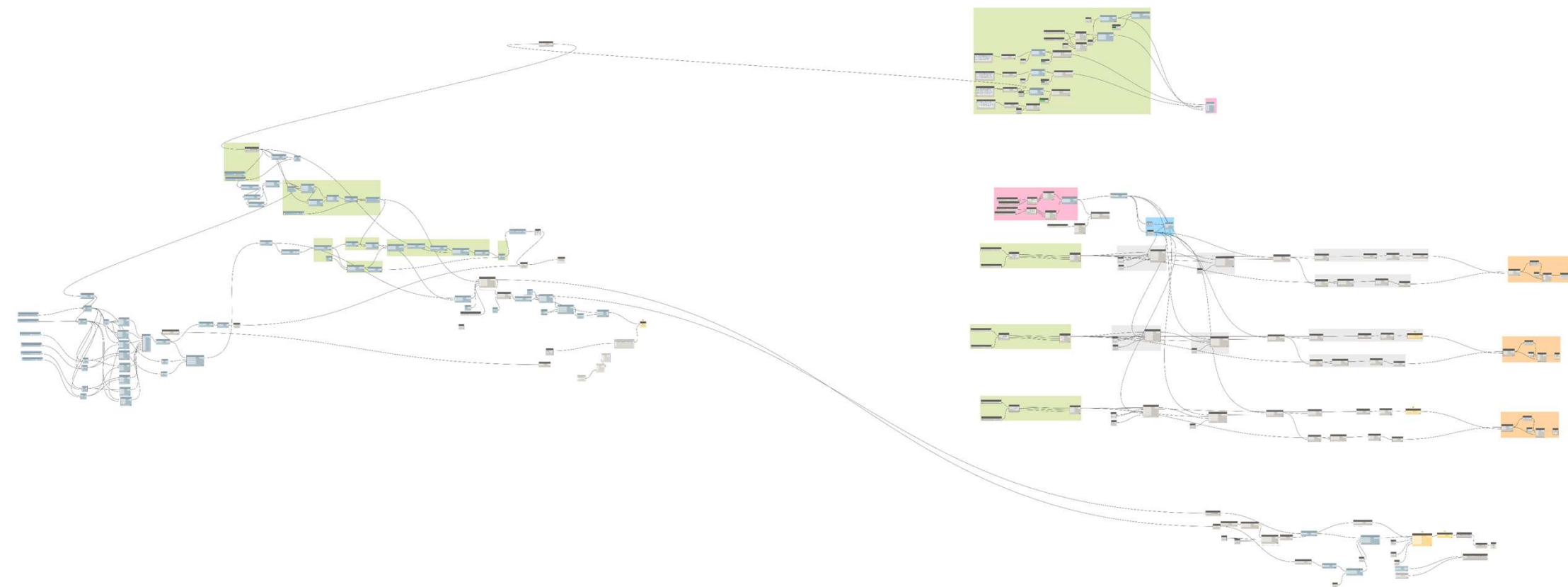


Design goals

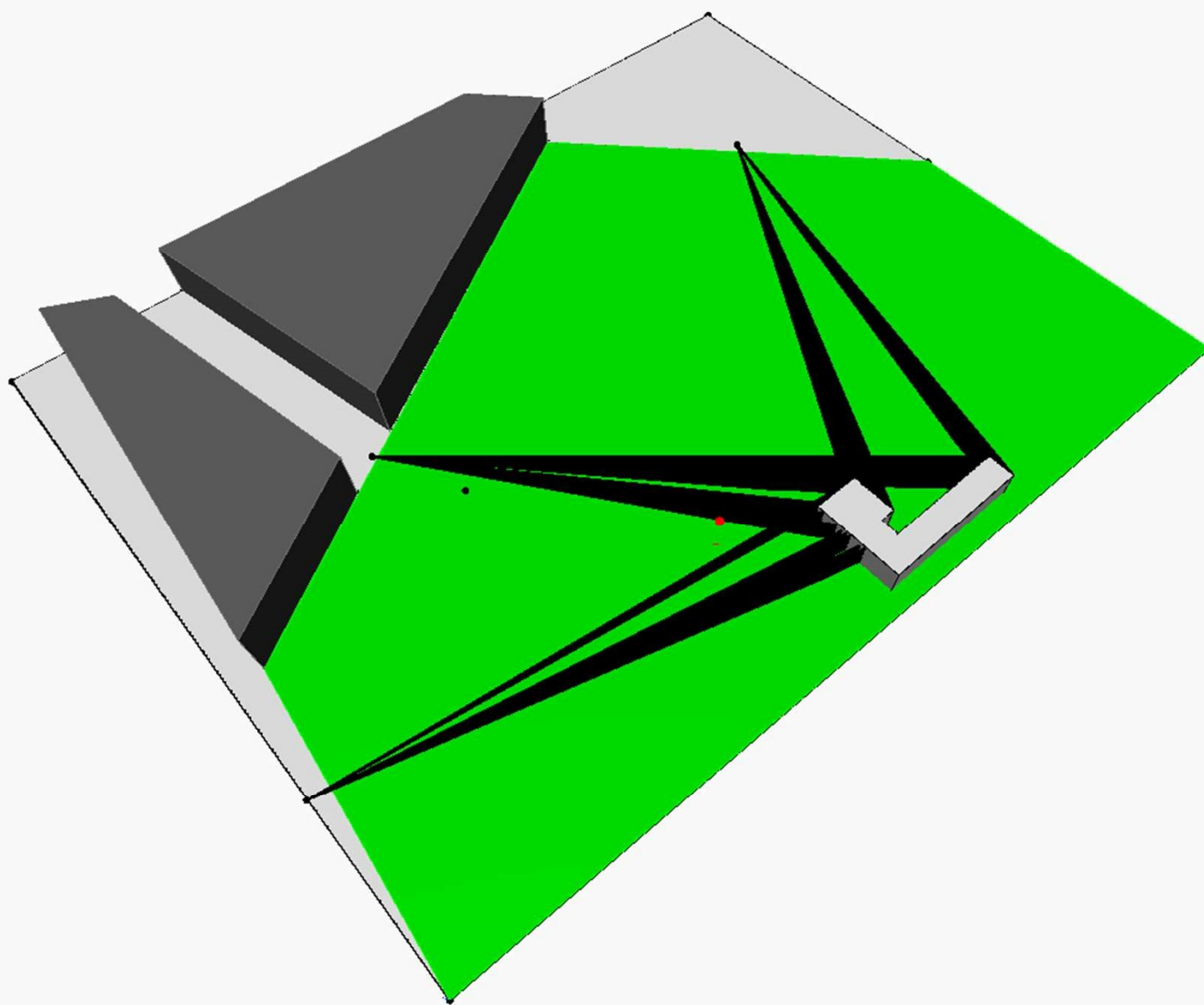
- Minimise reverberation

Based on the initial frequency, reverberation is calculated and used as part of the design goals





The script



Studies

New Study

Study

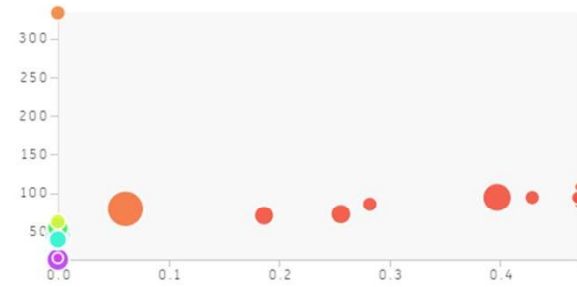
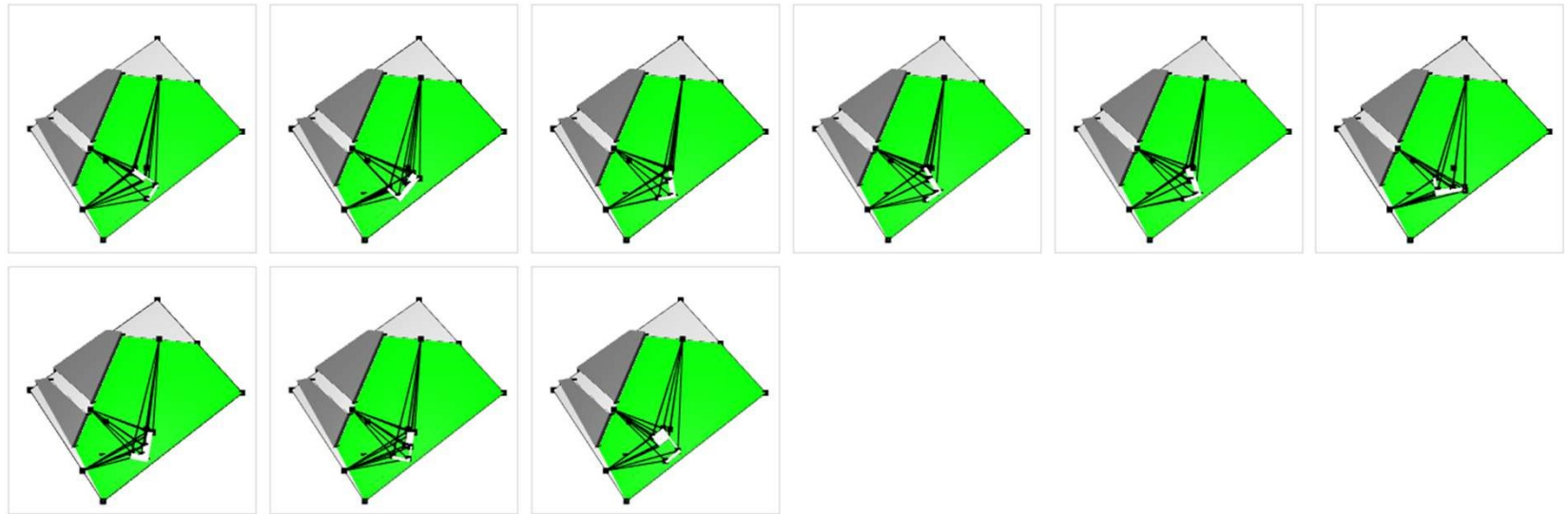
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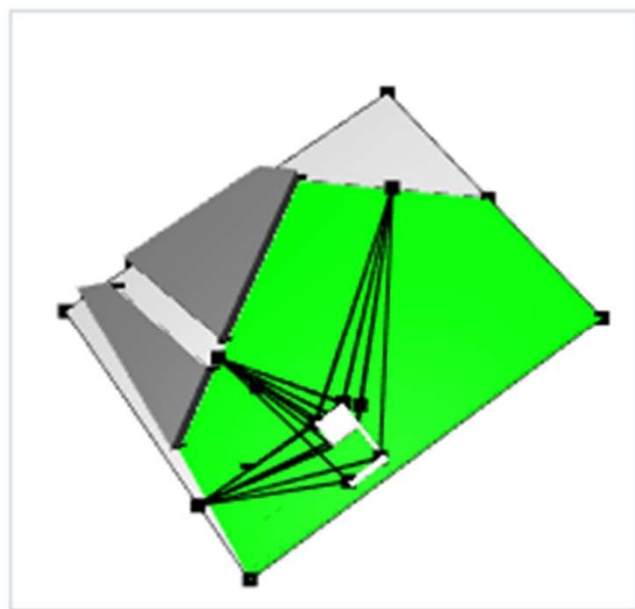
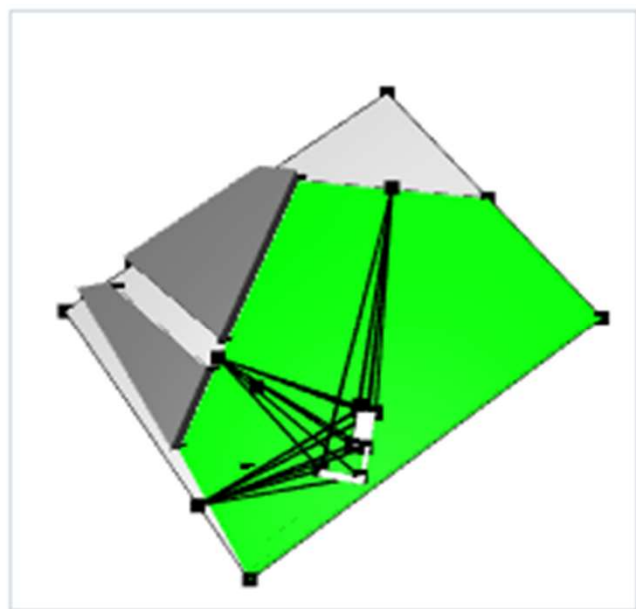
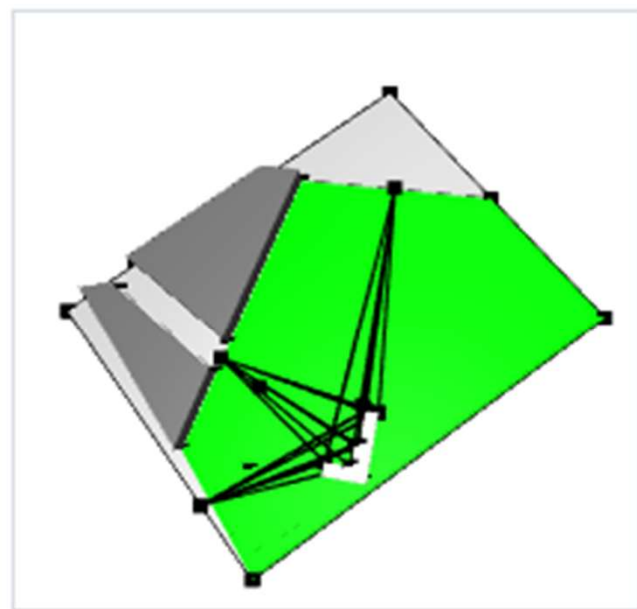
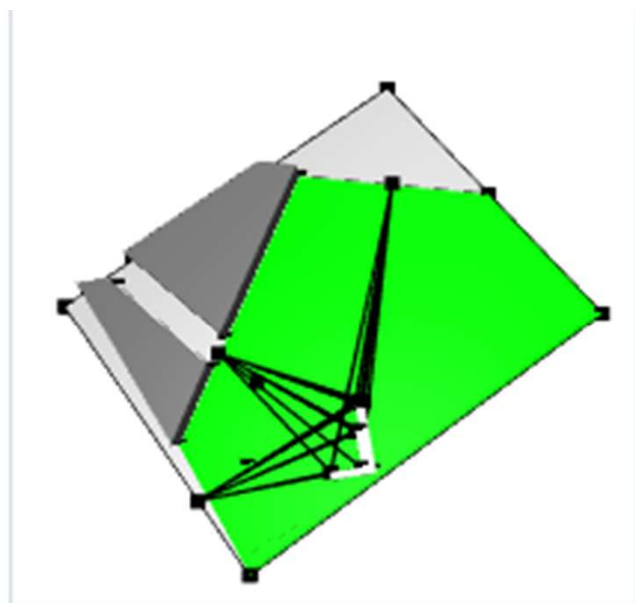
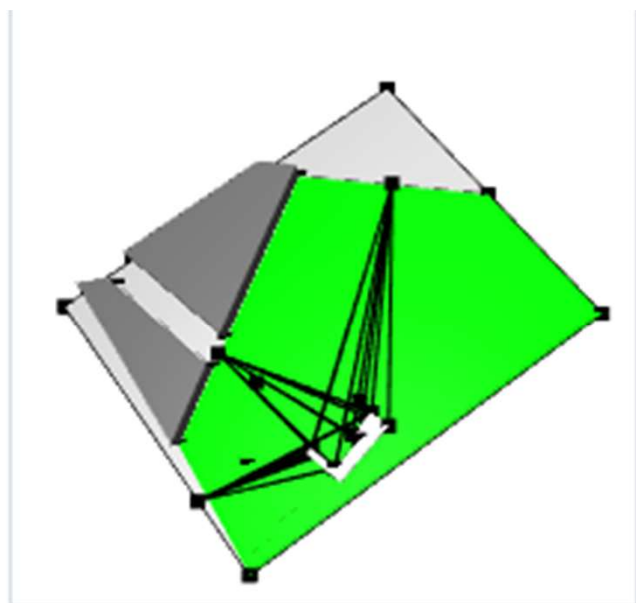
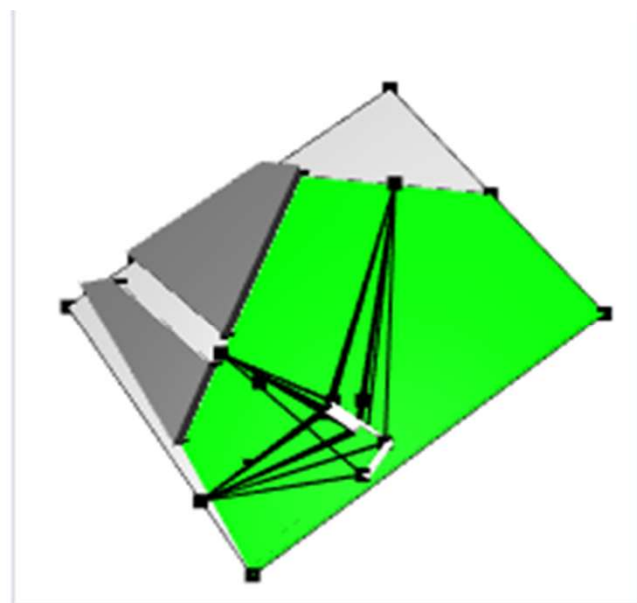
Y-Axis
RotationX-Axis
Visa1Size
reverberationColor
Visa3Filter ☐

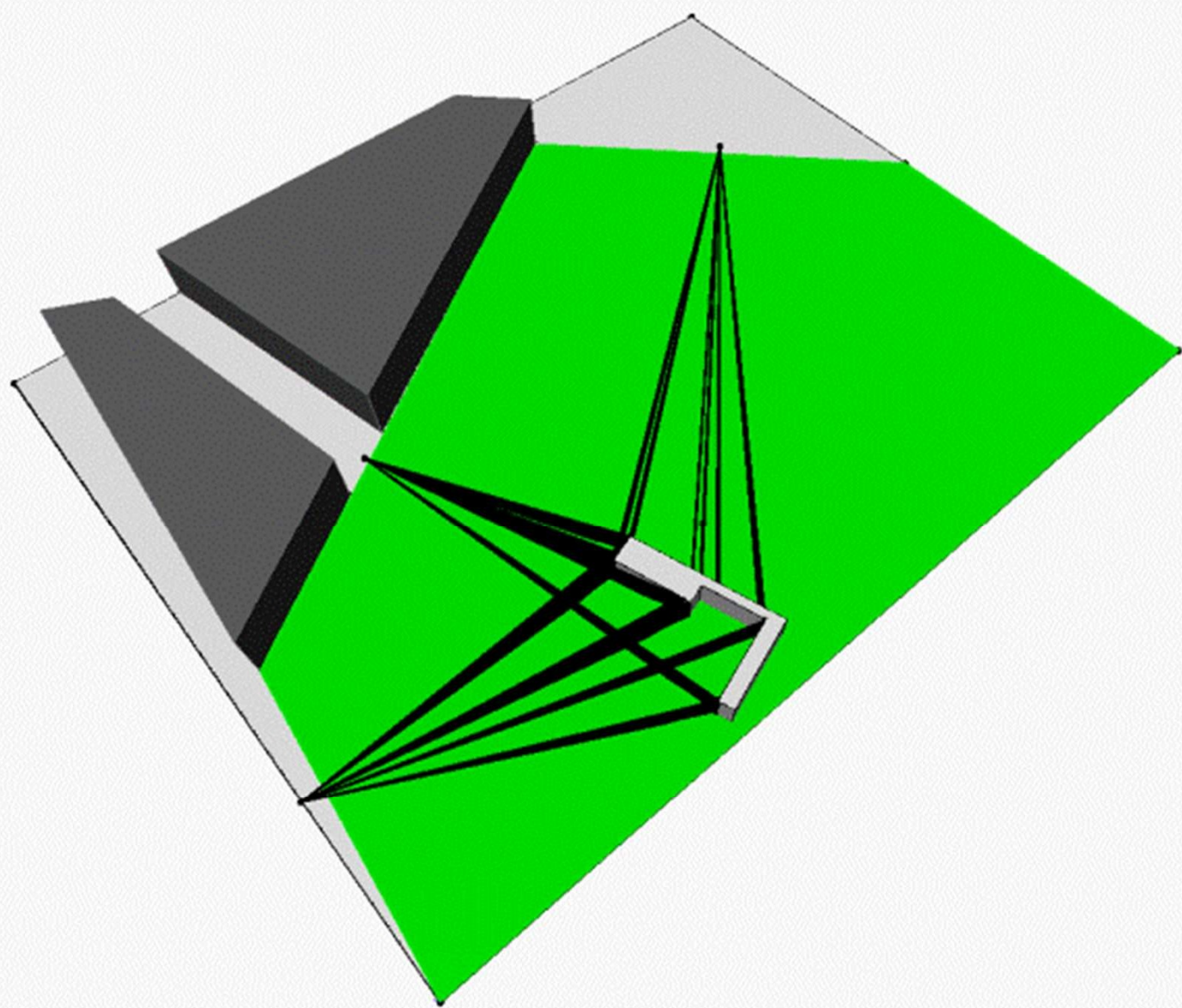
Sort by Integer Slider



1 | 2 | 3







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