

A generic shape grammar interpreter for discursive grammars

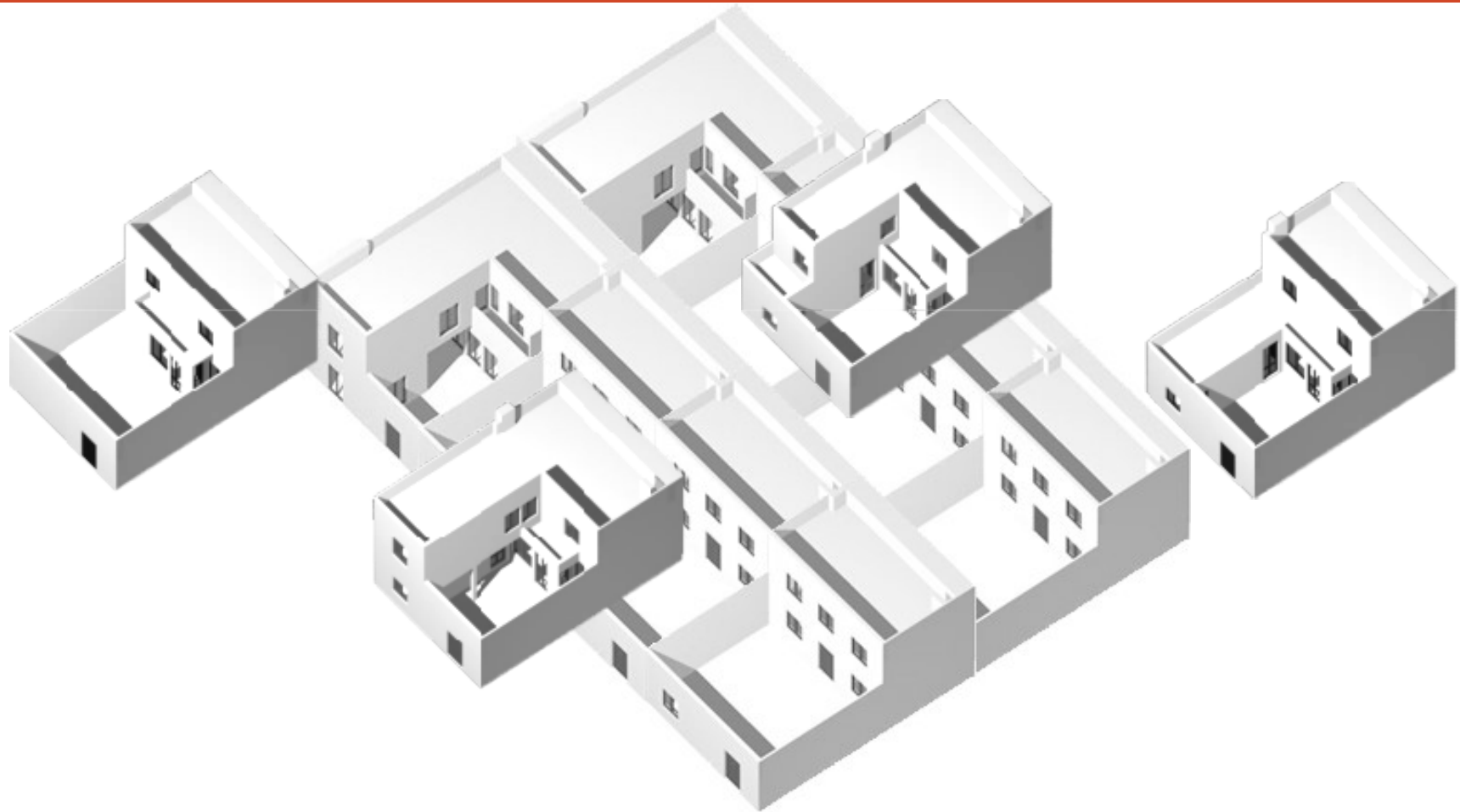
19th Generative Art Conference GA2016

Rodrigo Correia

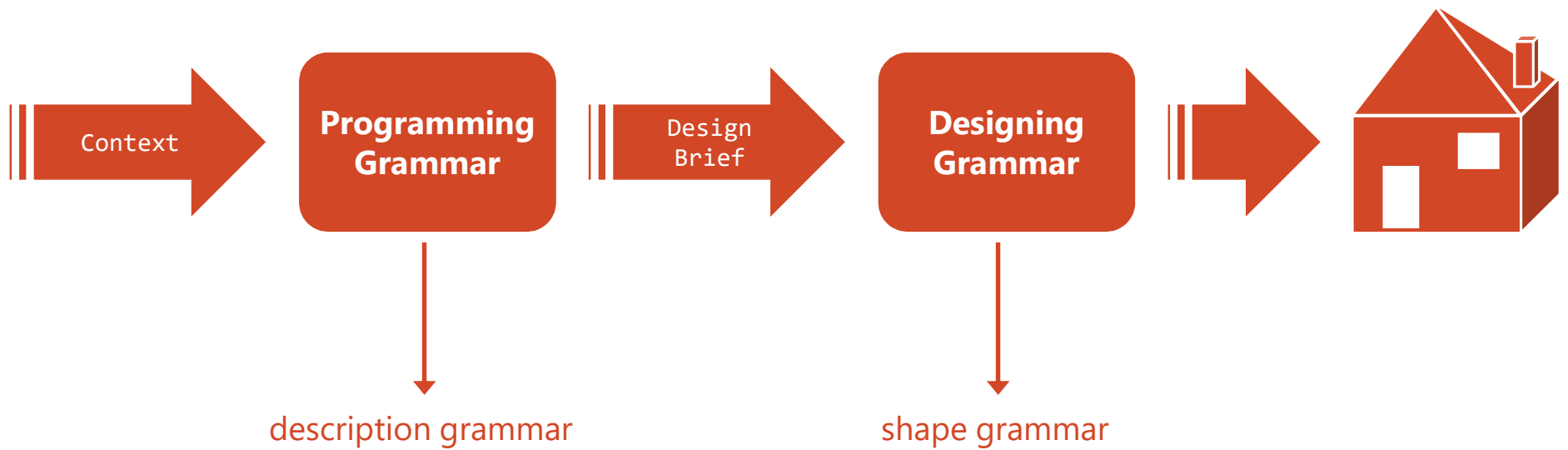
António Leitão

José Pinto Duarte

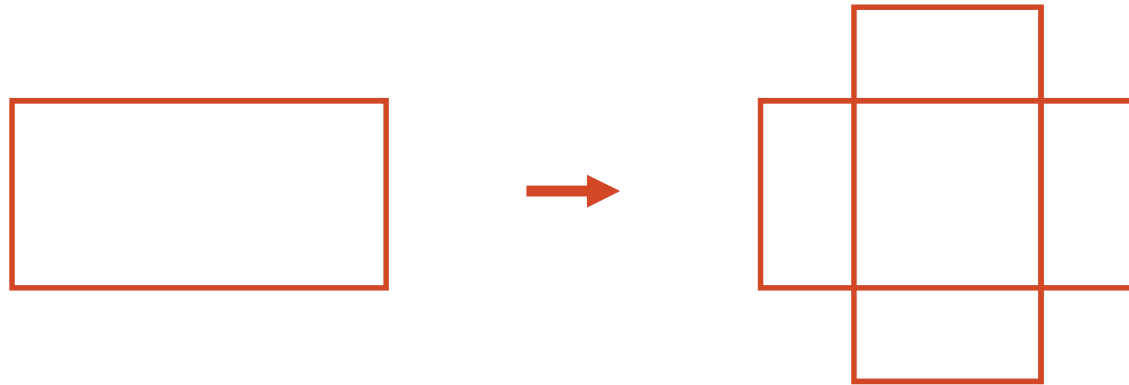
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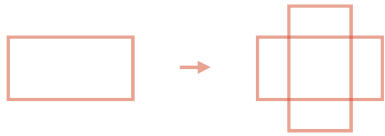
Discursive Grammar



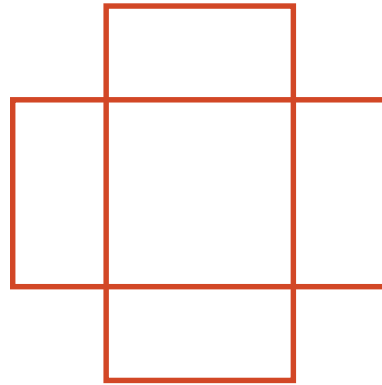
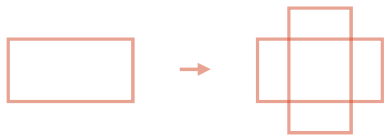
Shape Grammar



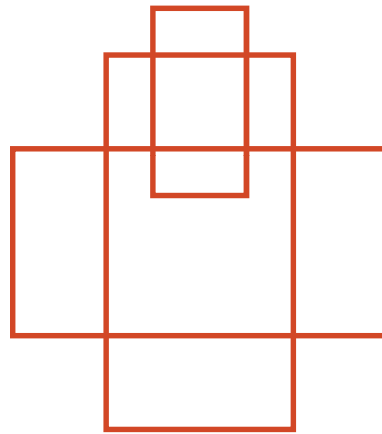
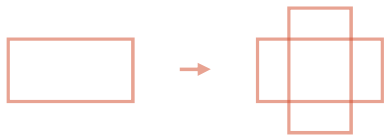
Shape Grammar



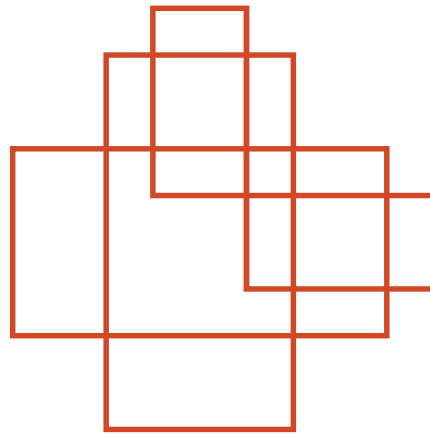
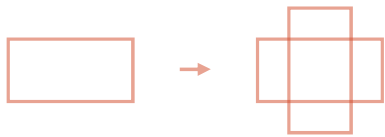
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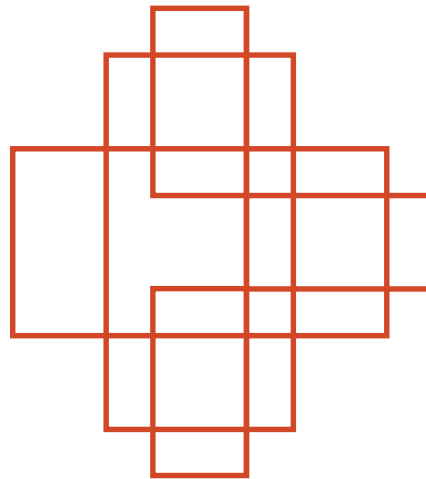
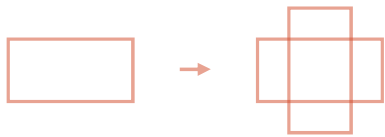
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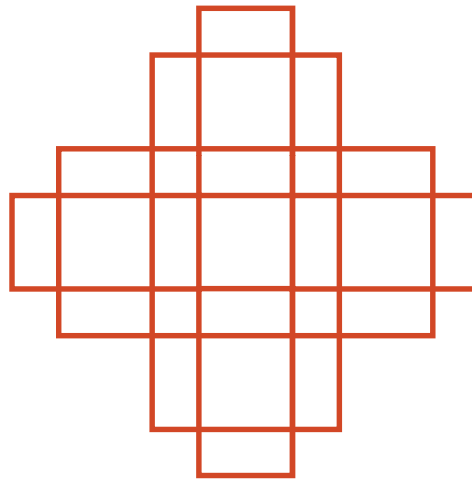
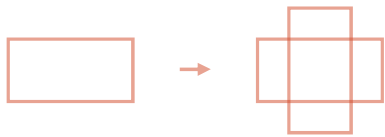
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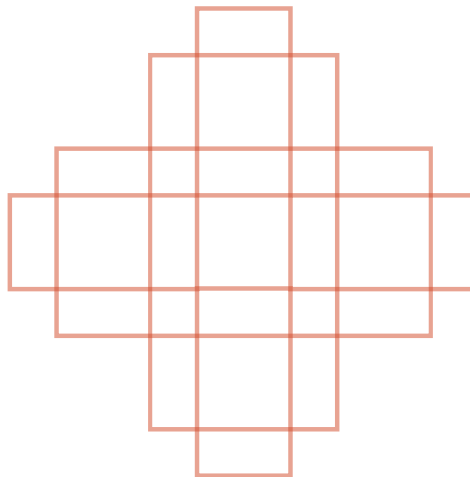
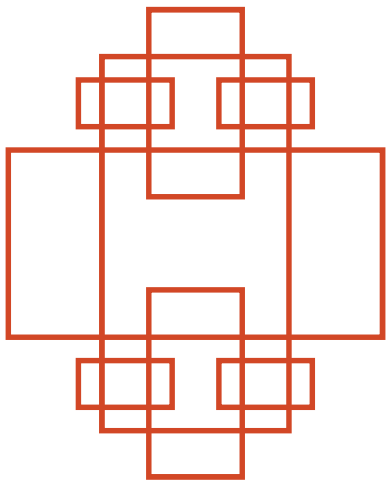
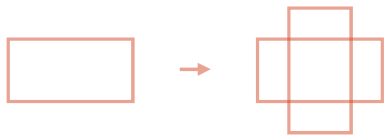
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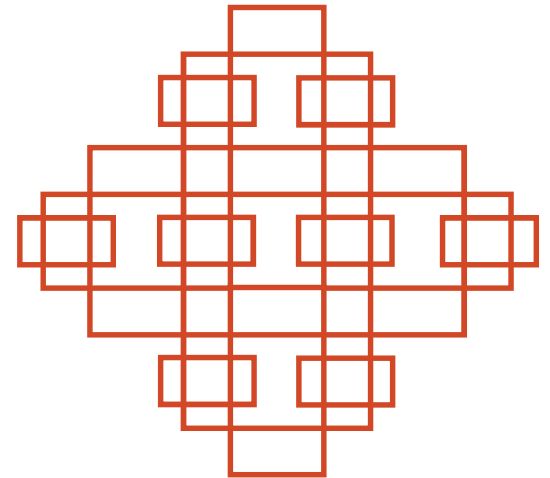
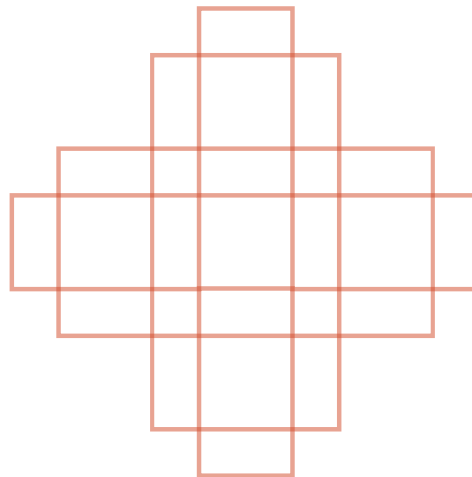
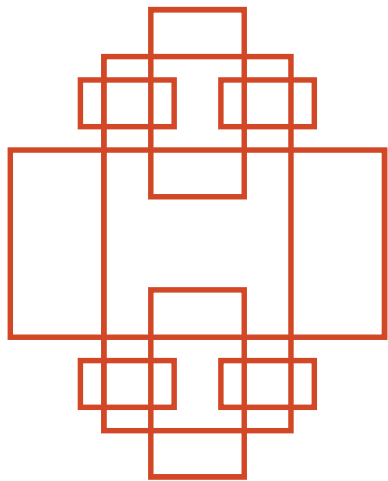
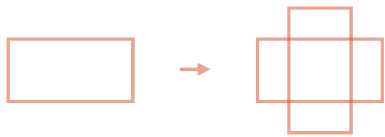
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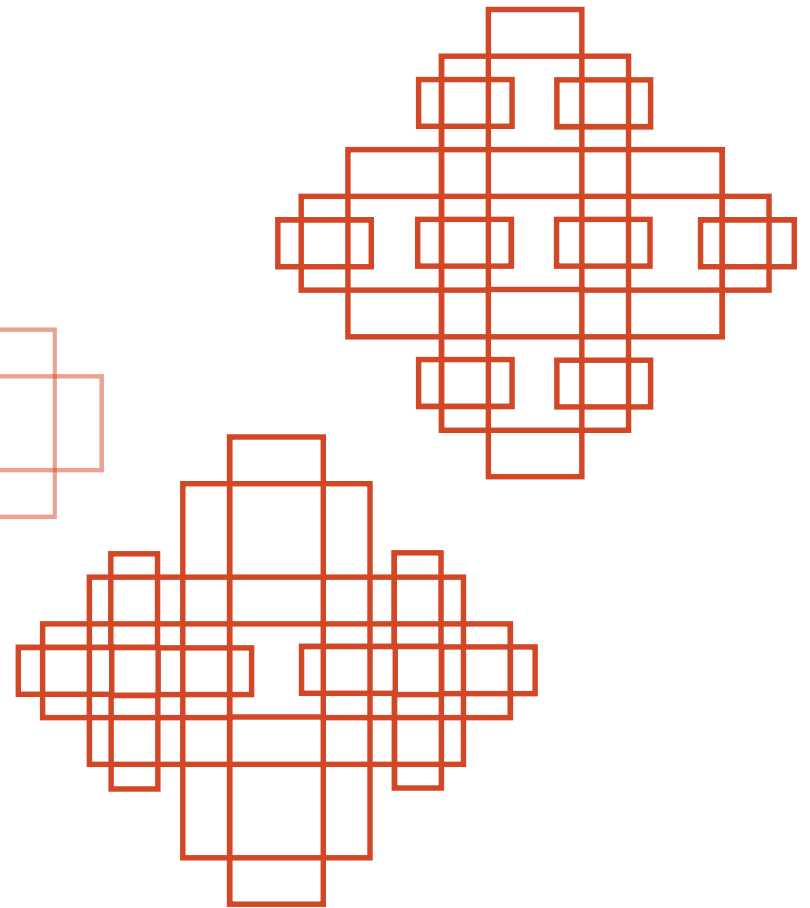
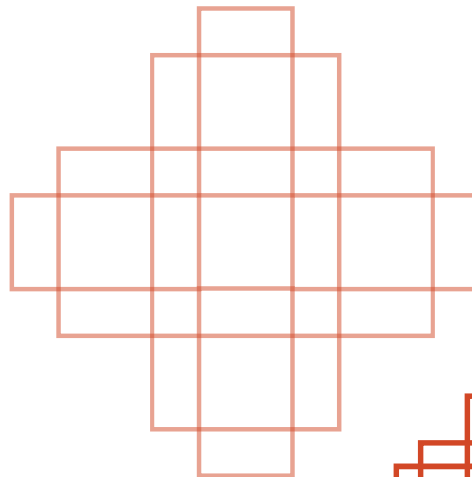
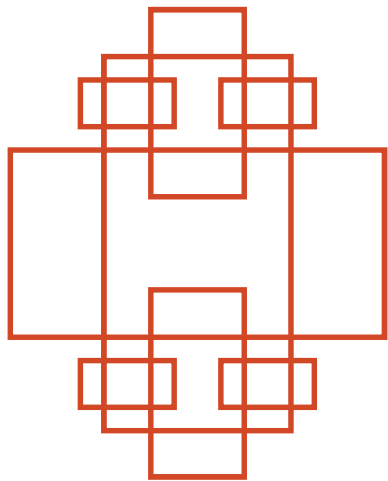
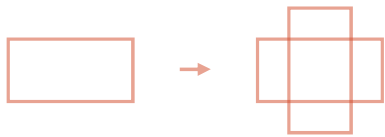
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Shape Grammar



Shape Grammar



Shape Grammar Interpreter

Shapes

Rules

Strategies

Visualization

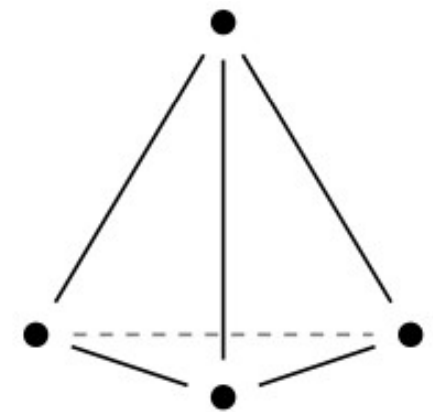
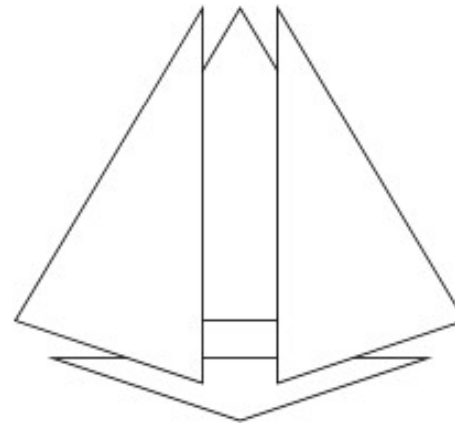
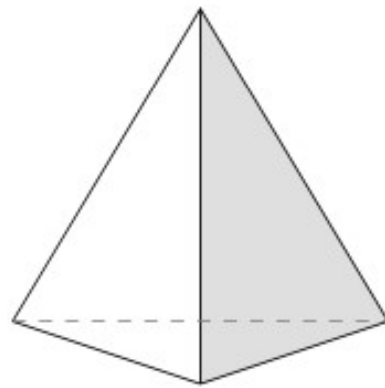
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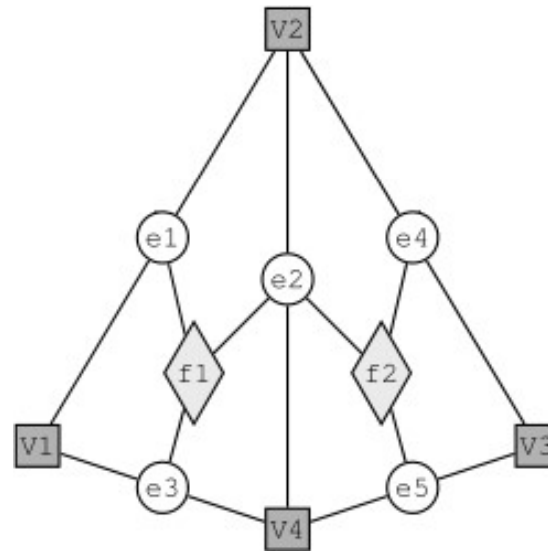
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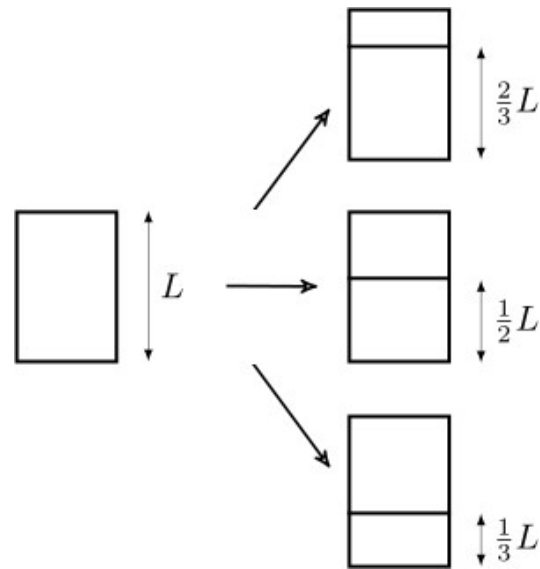
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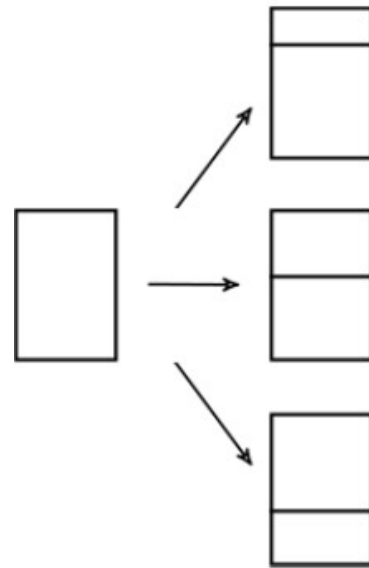
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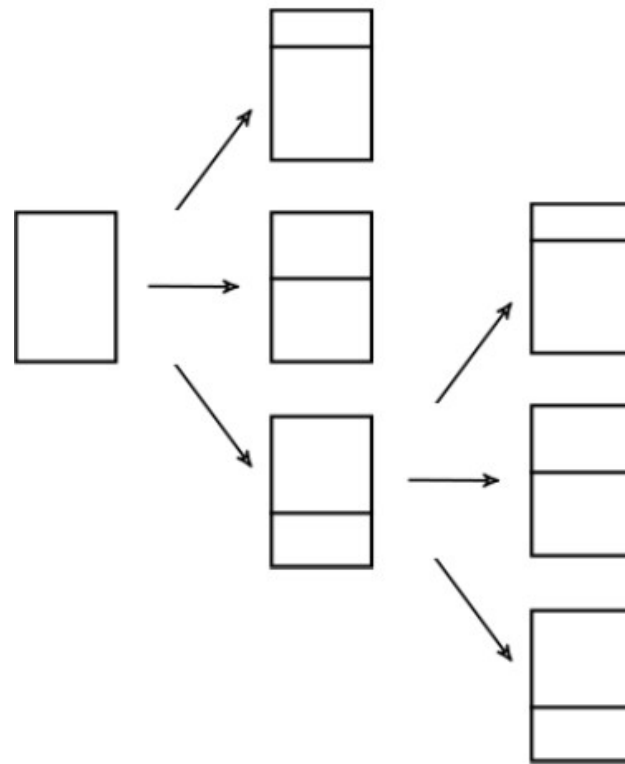
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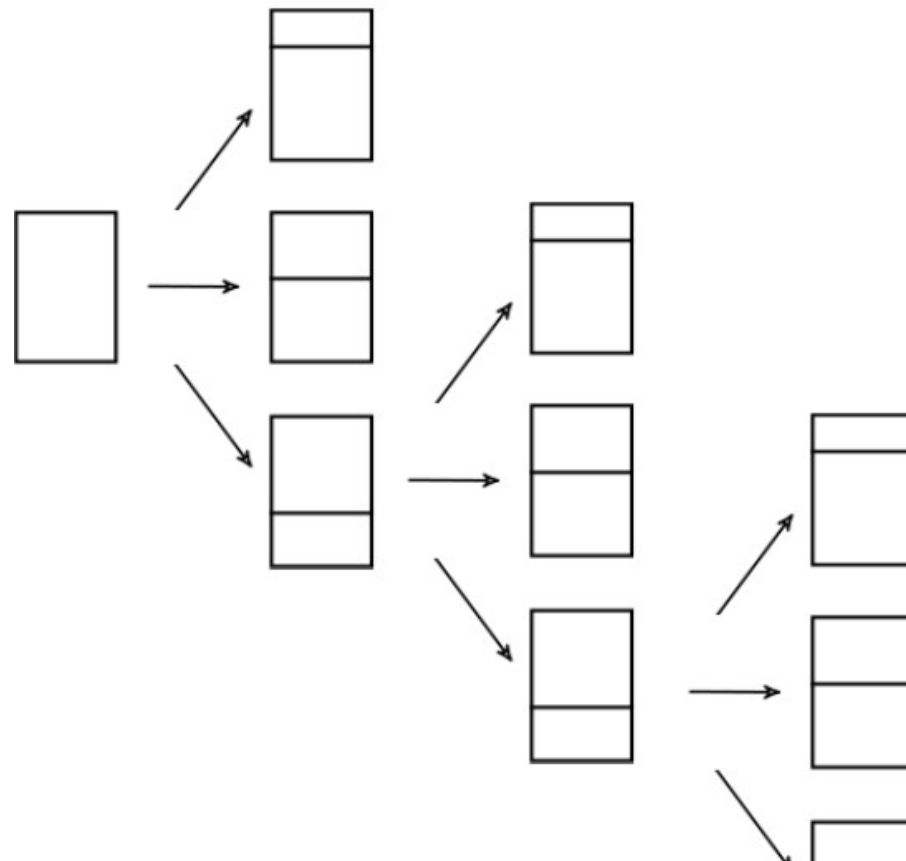
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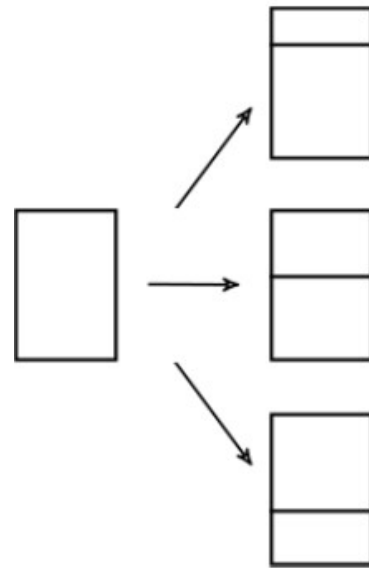
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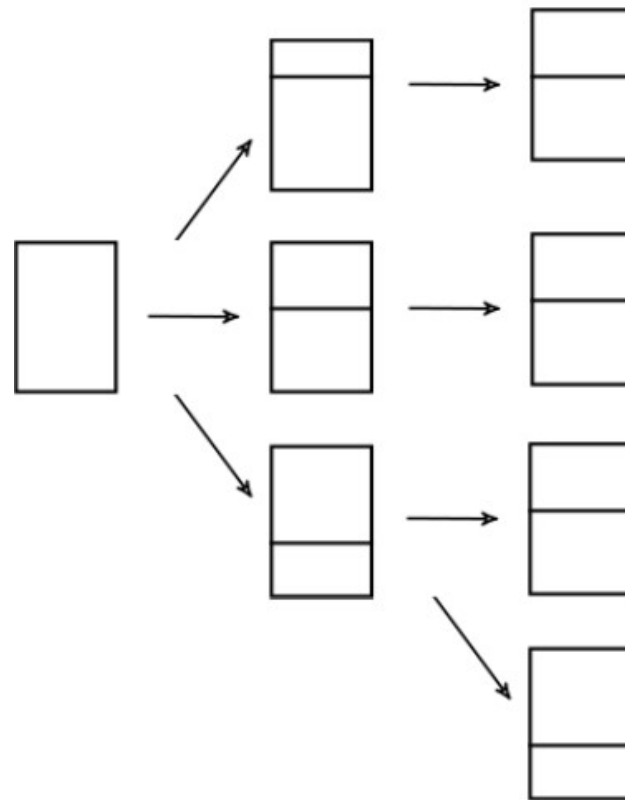
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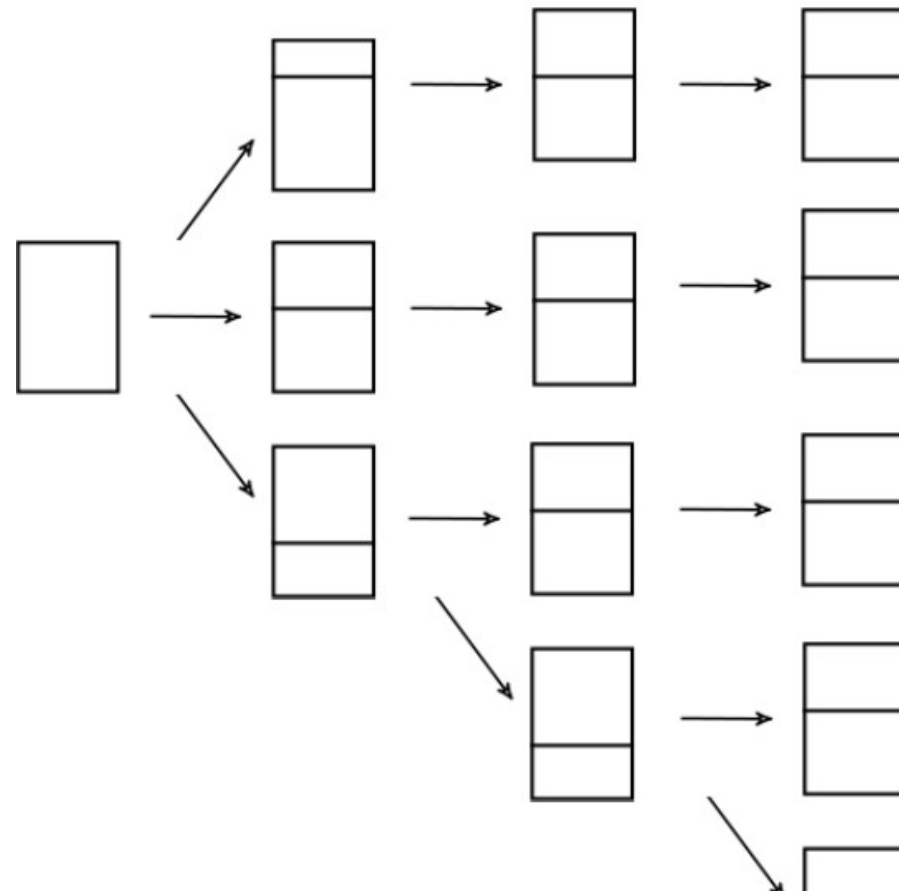
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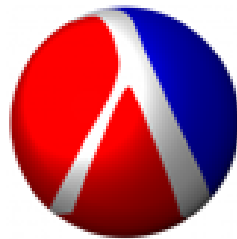
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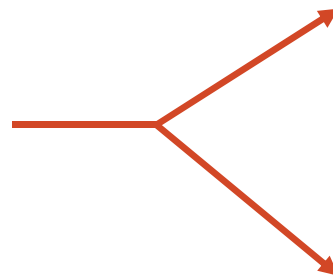
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Rosetta



AutoCAD



Rhinoceros

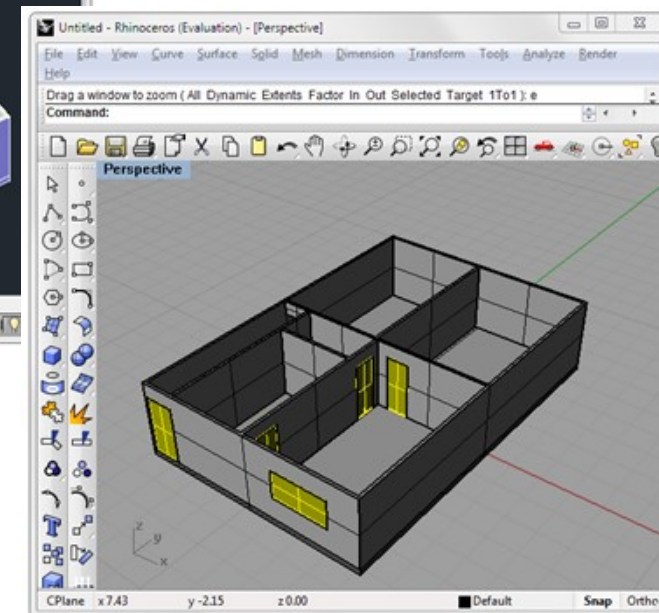
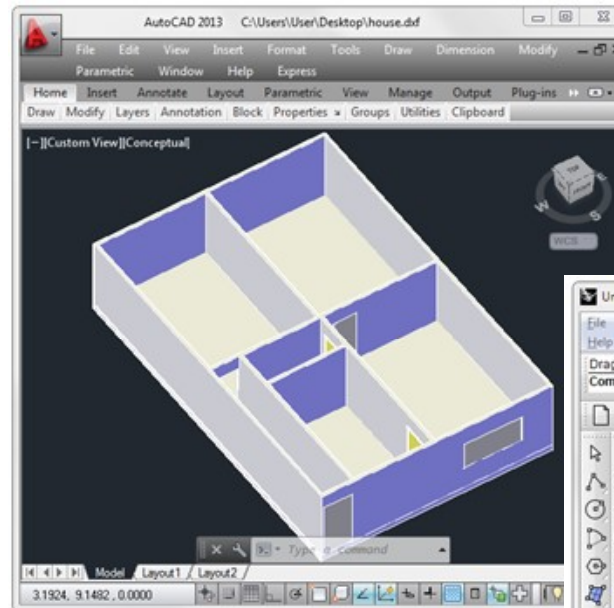
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Evaluation

Ice Ray Grammar

3D Grammar

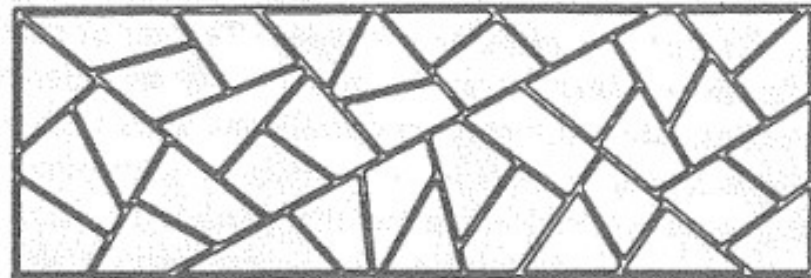
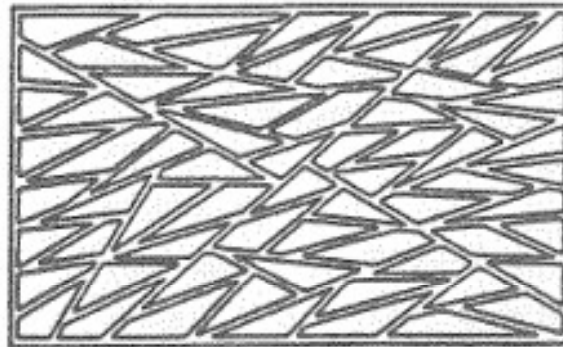
Malagueira Grammar

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Malagueira Grammar

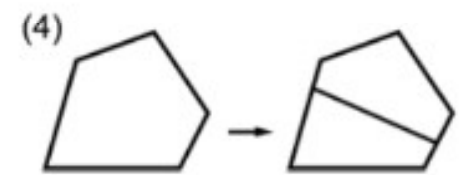


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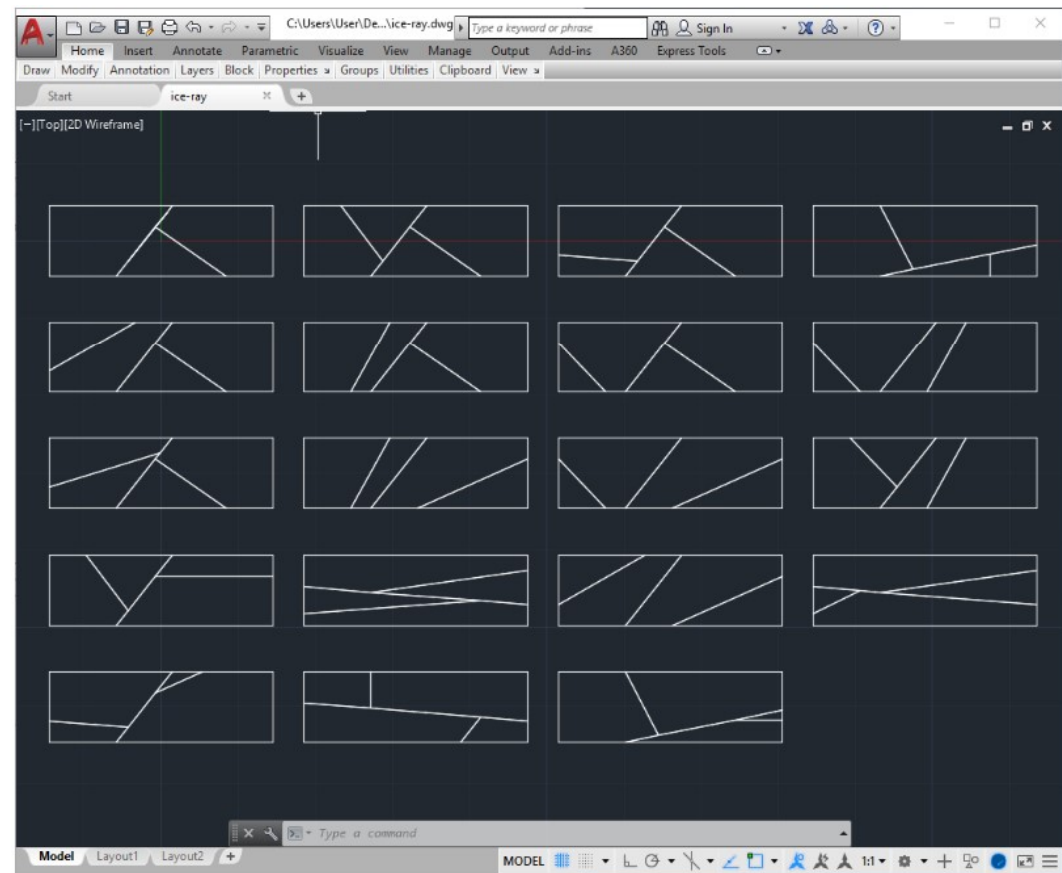


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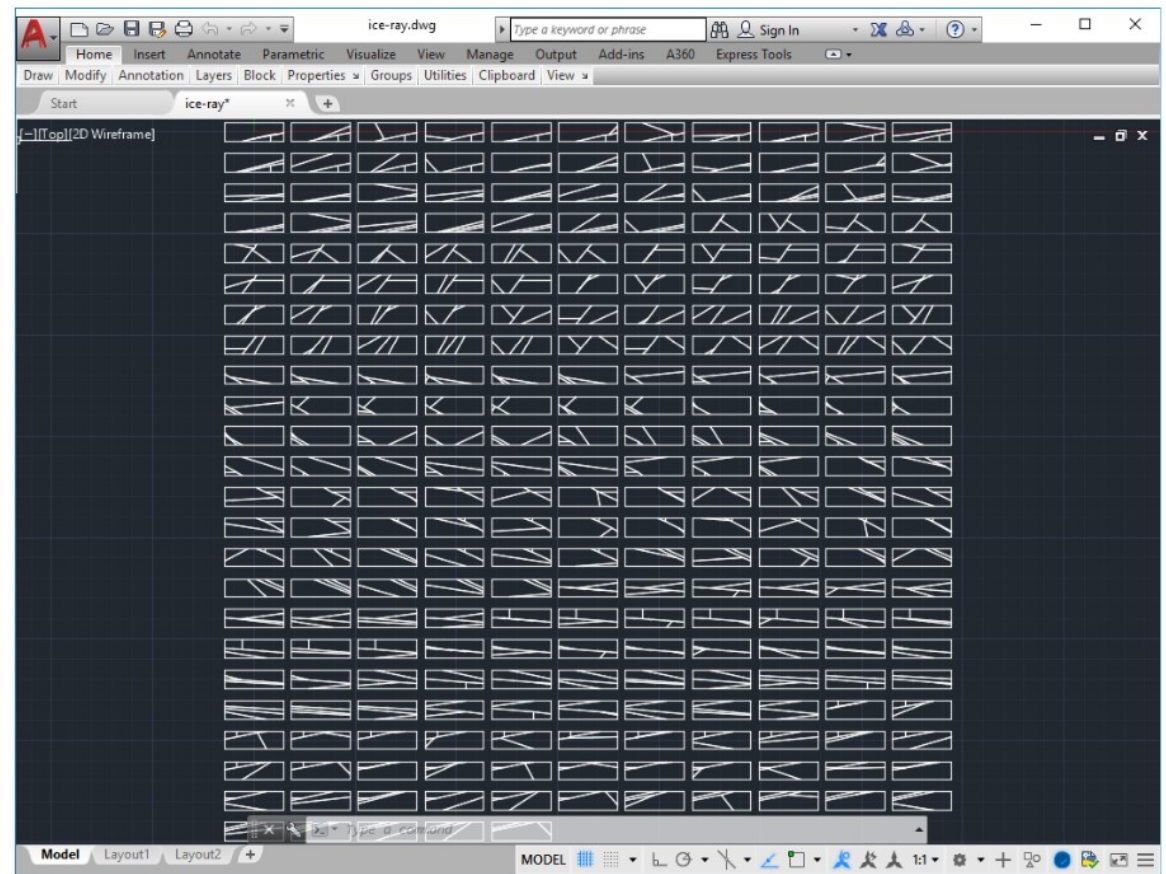


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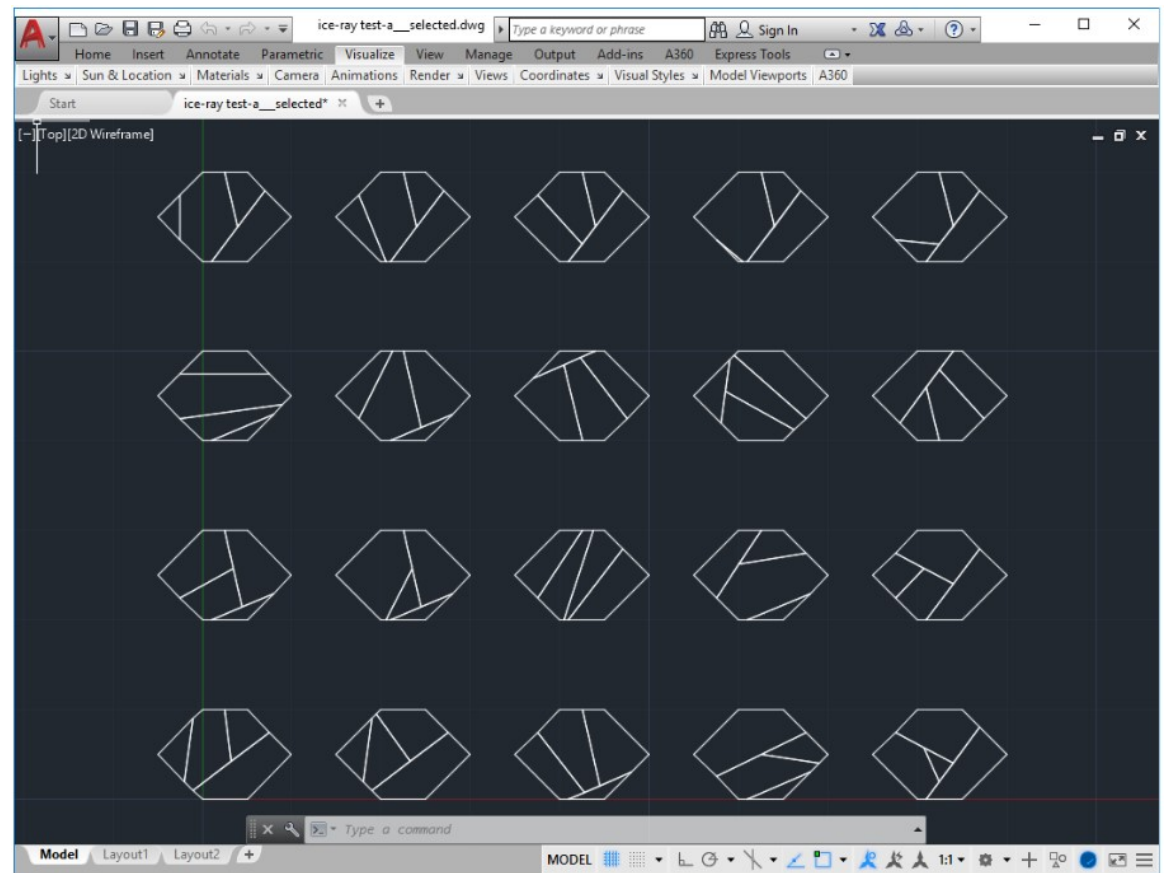


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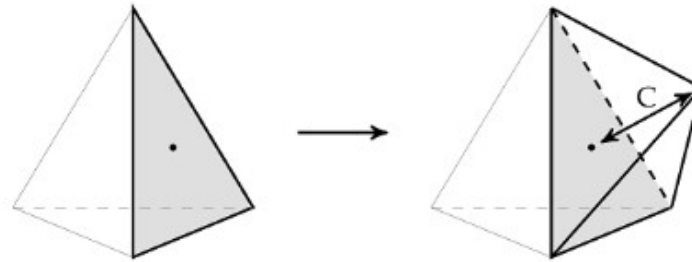
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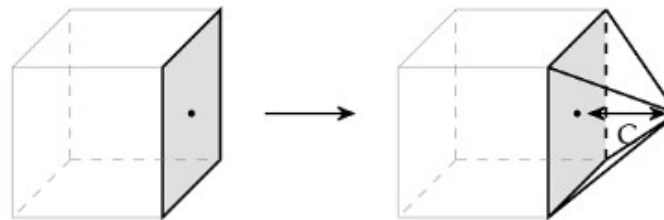
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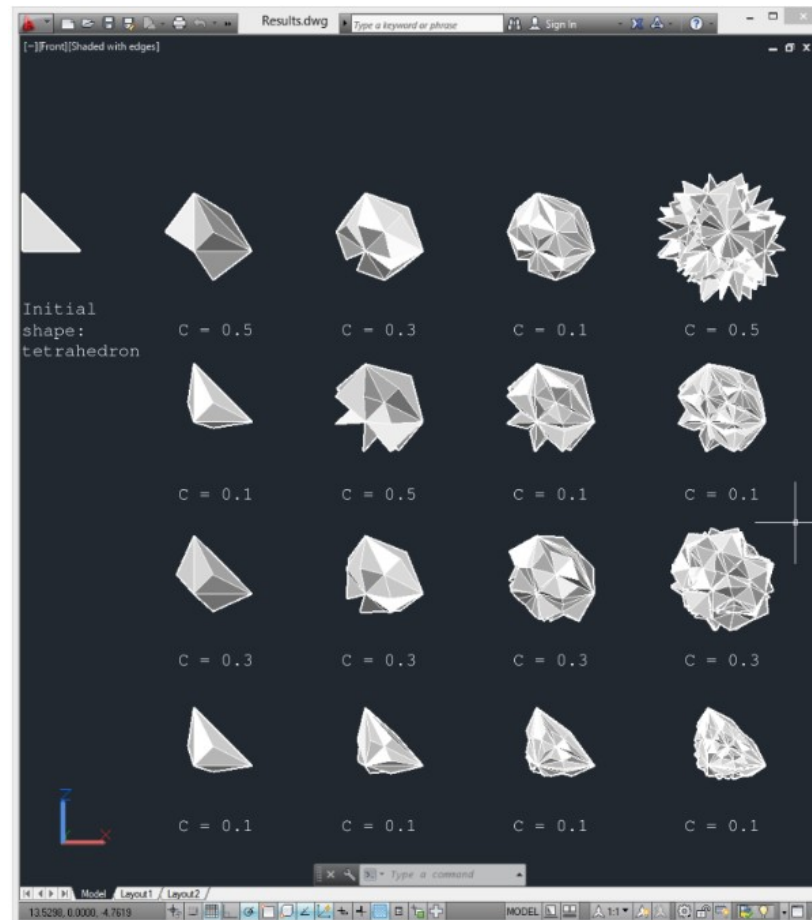


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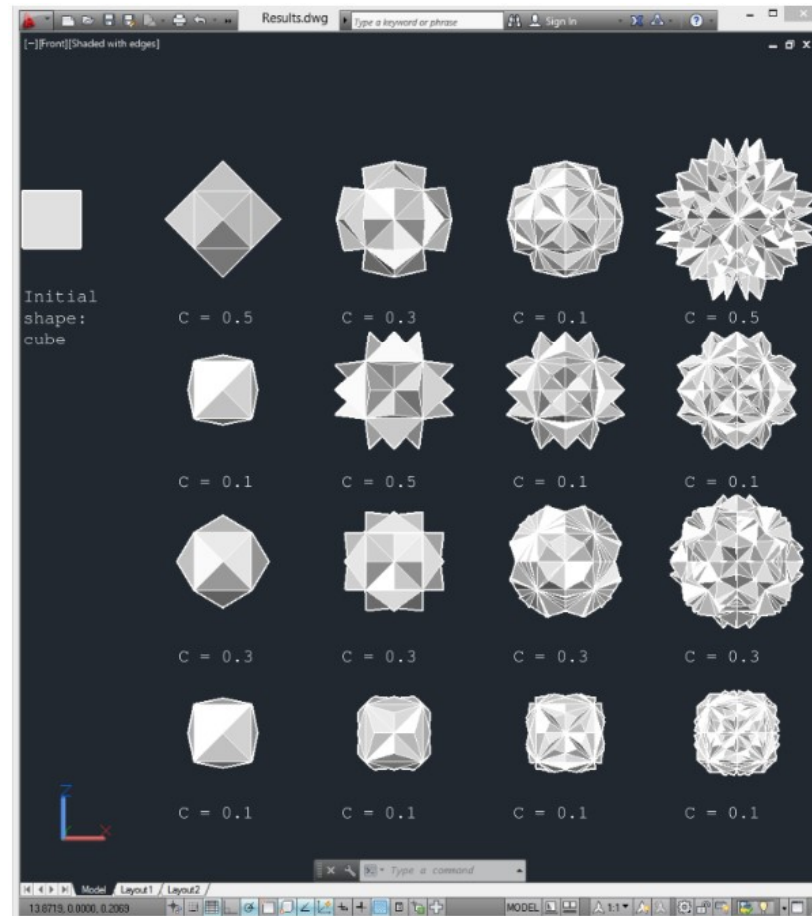


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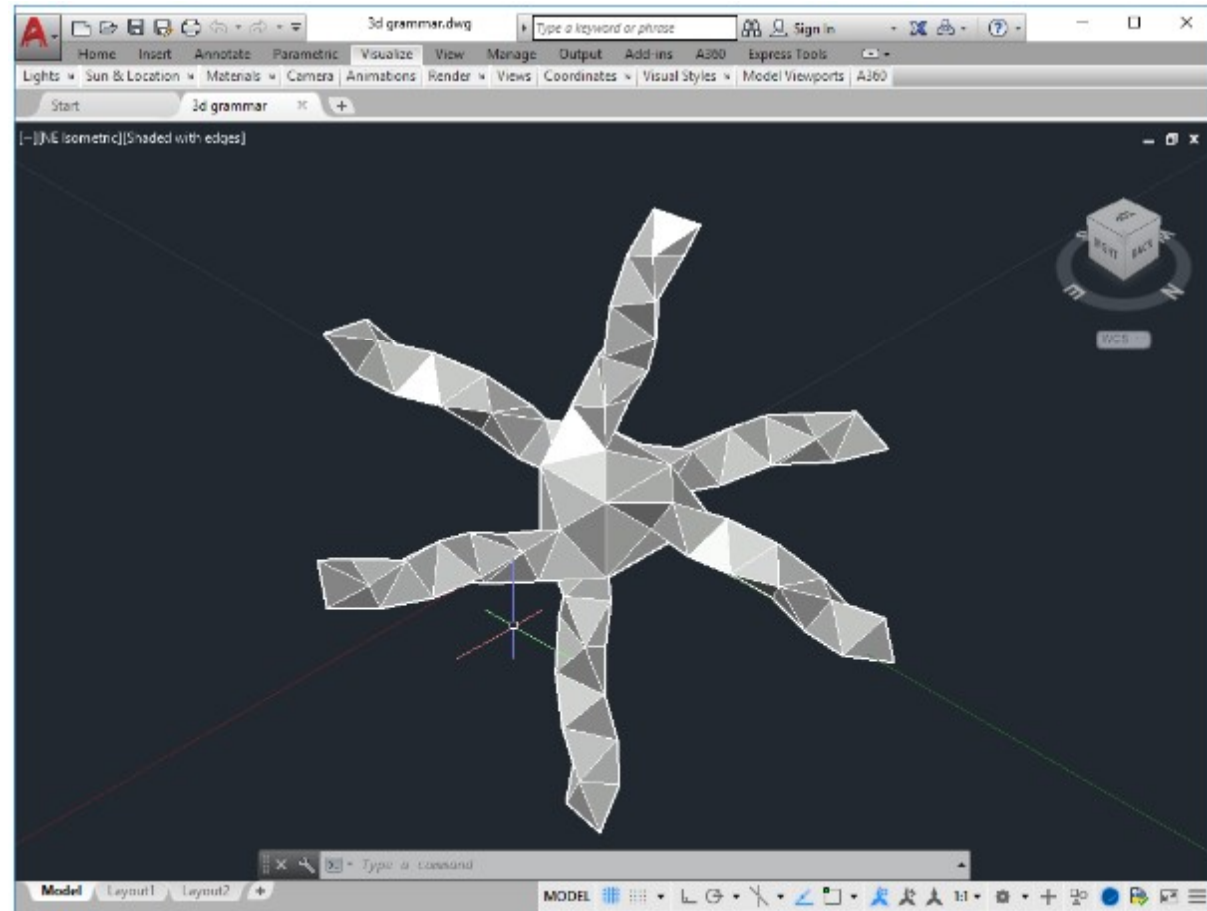


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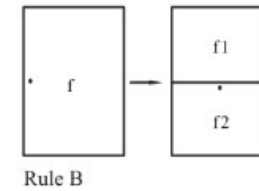
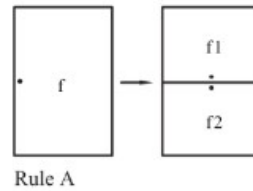
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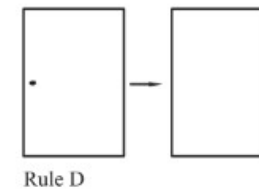
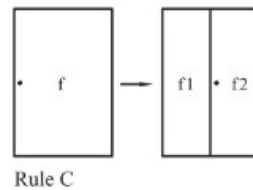


Evaluation

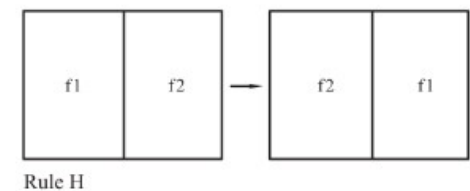
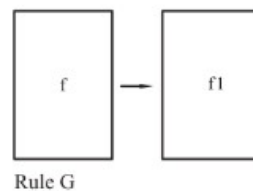
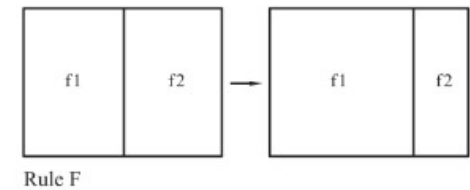
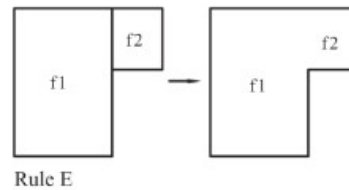
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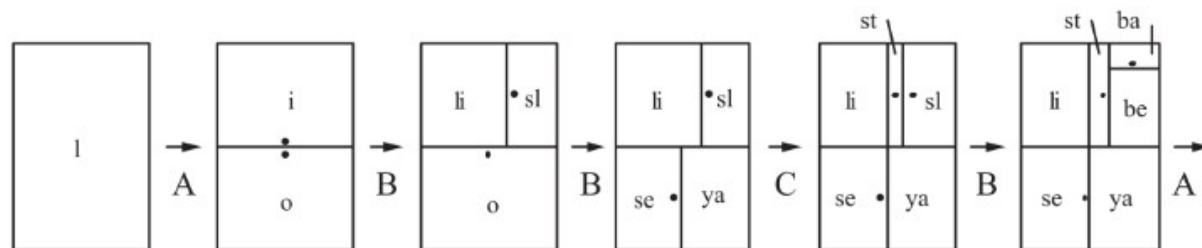


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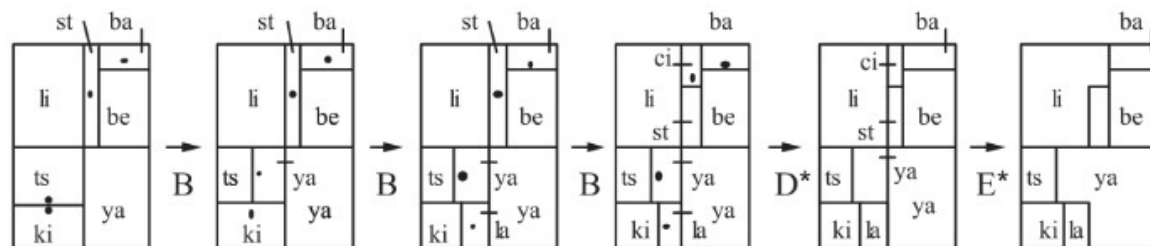


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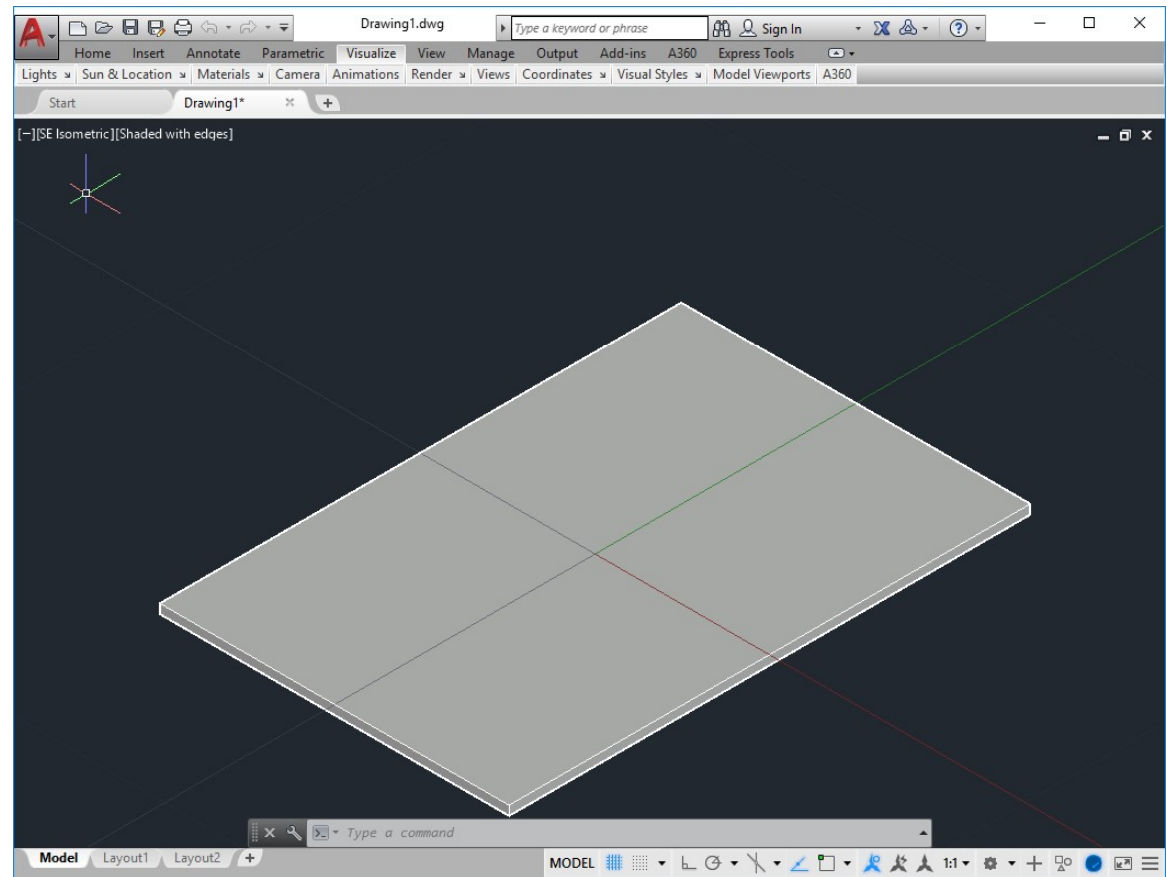
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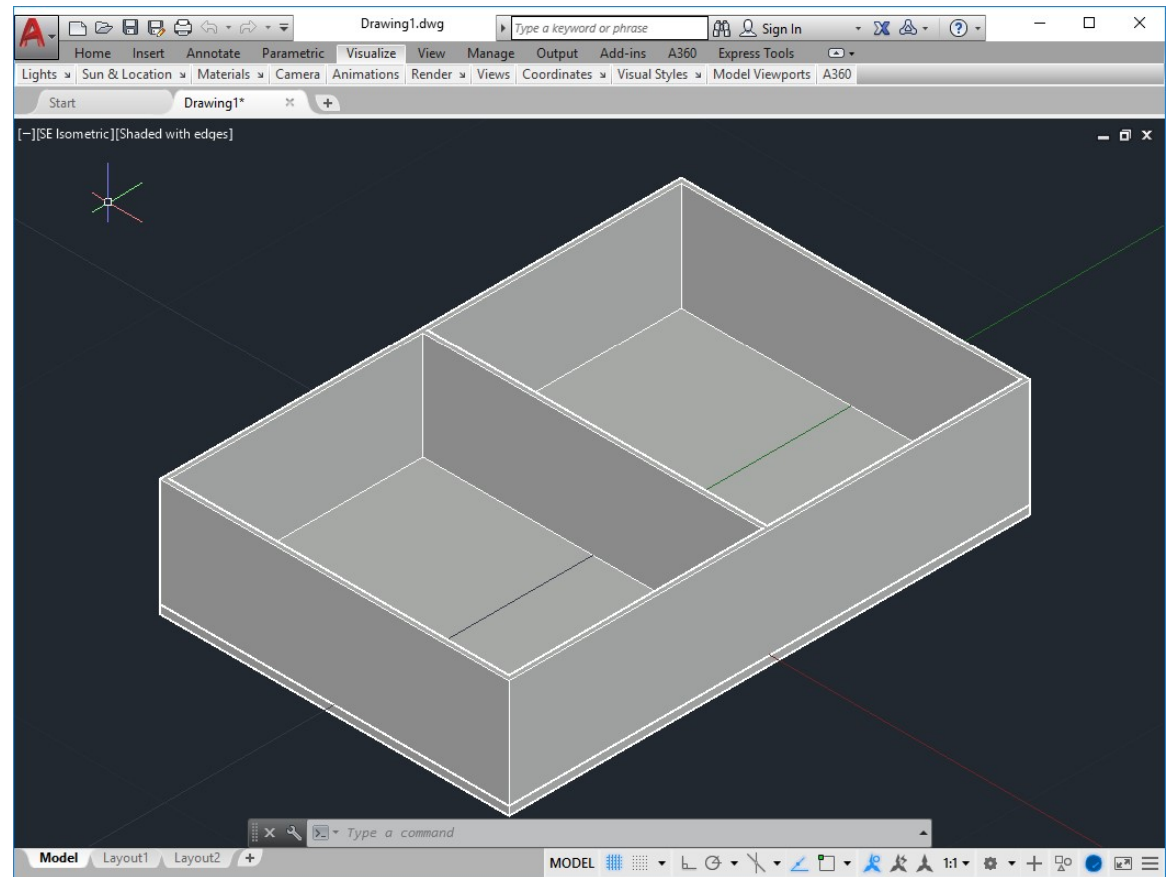


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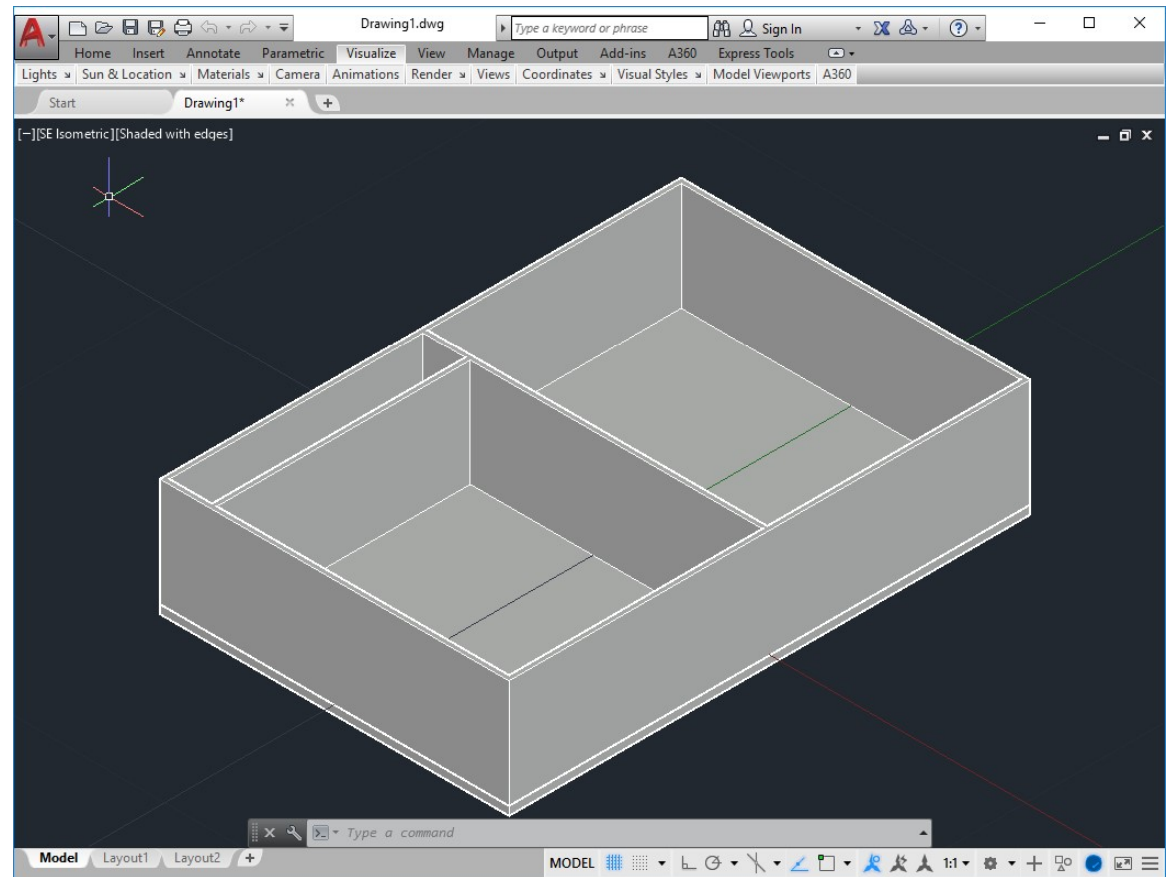


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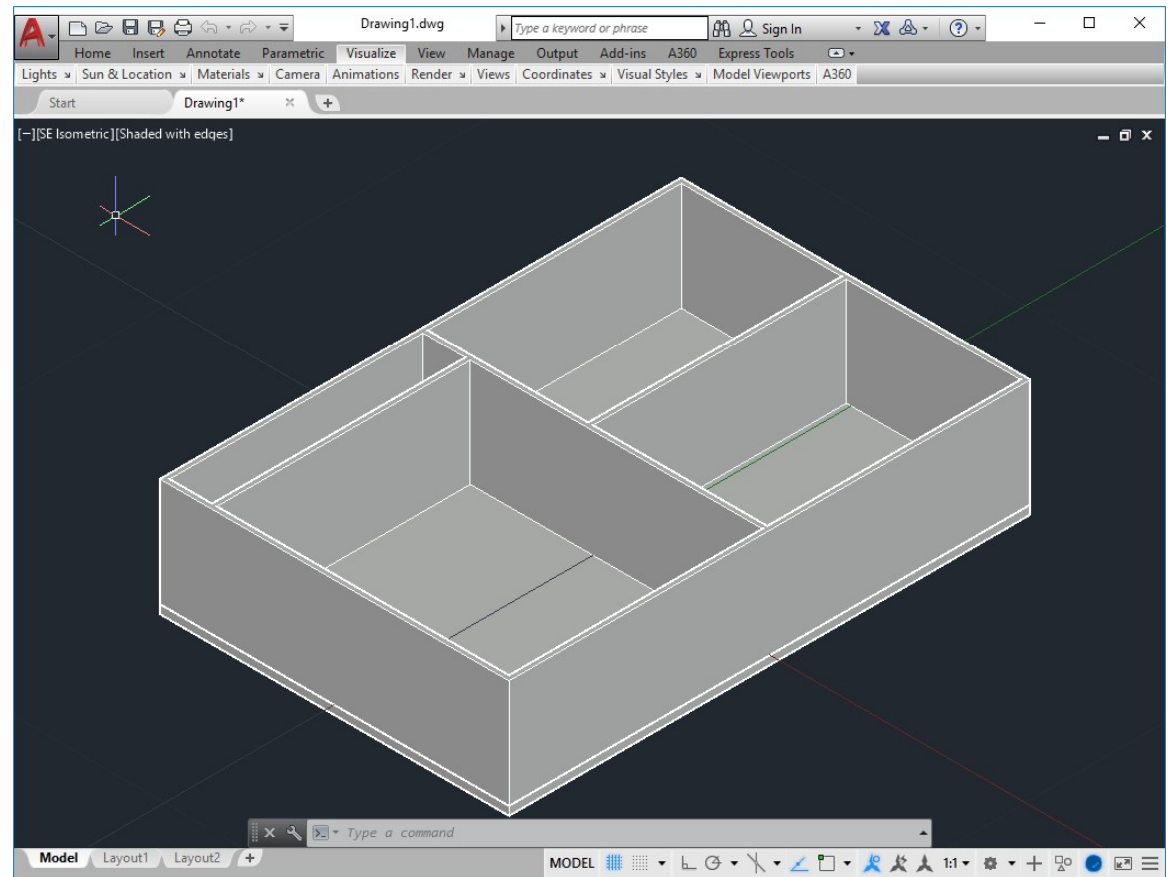


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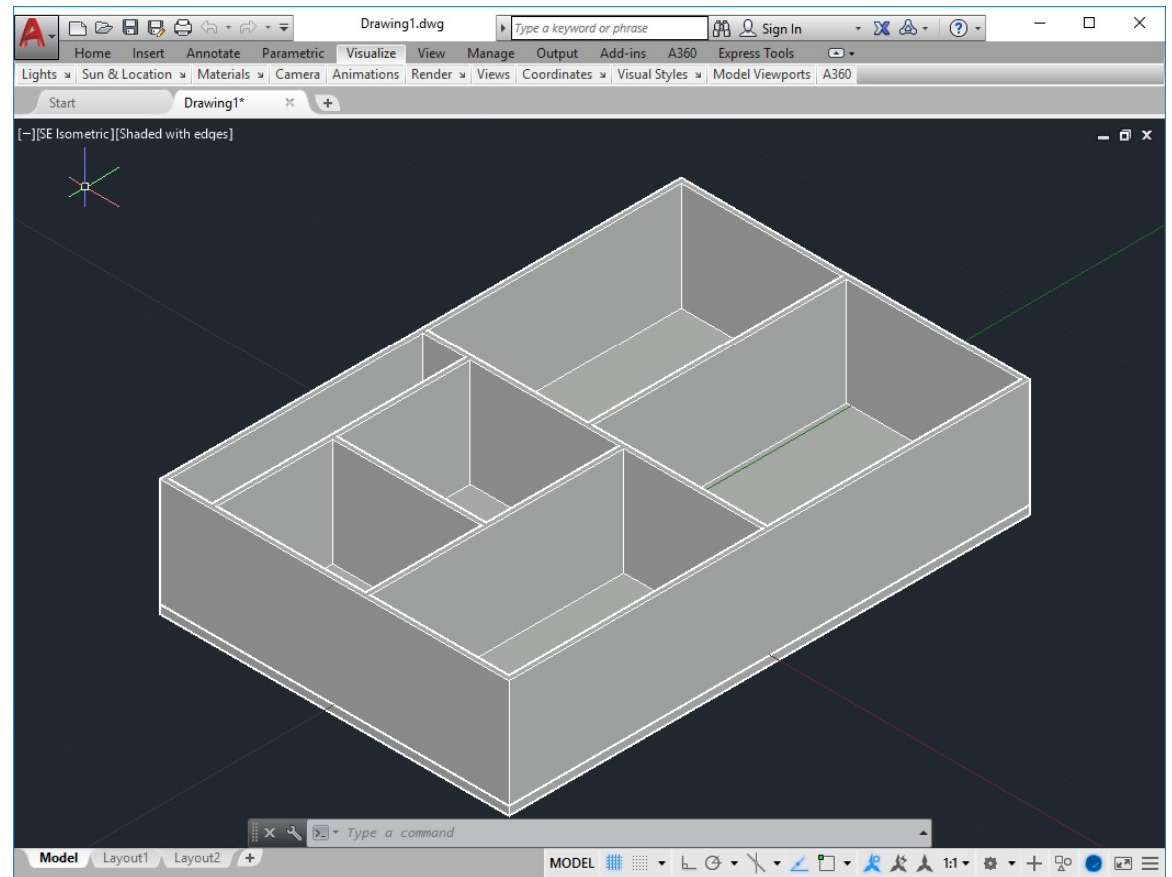


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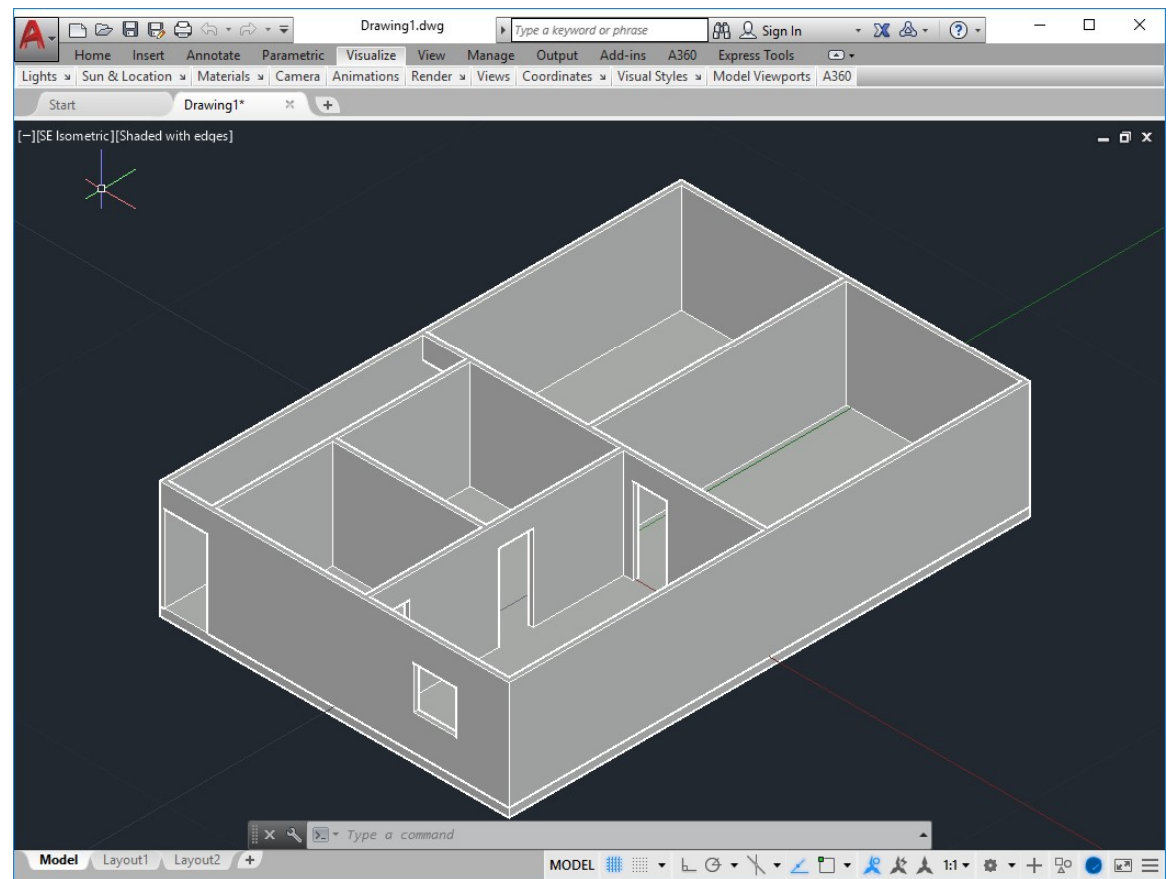


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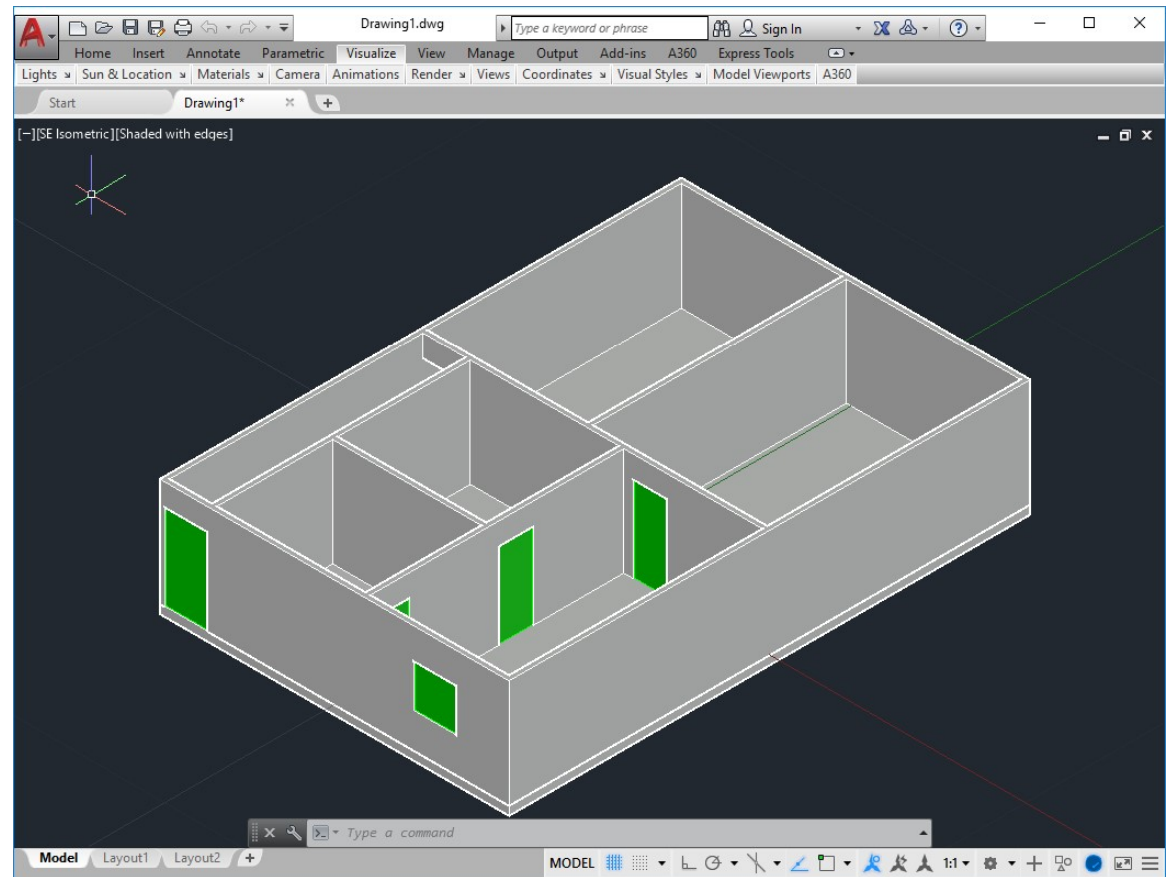


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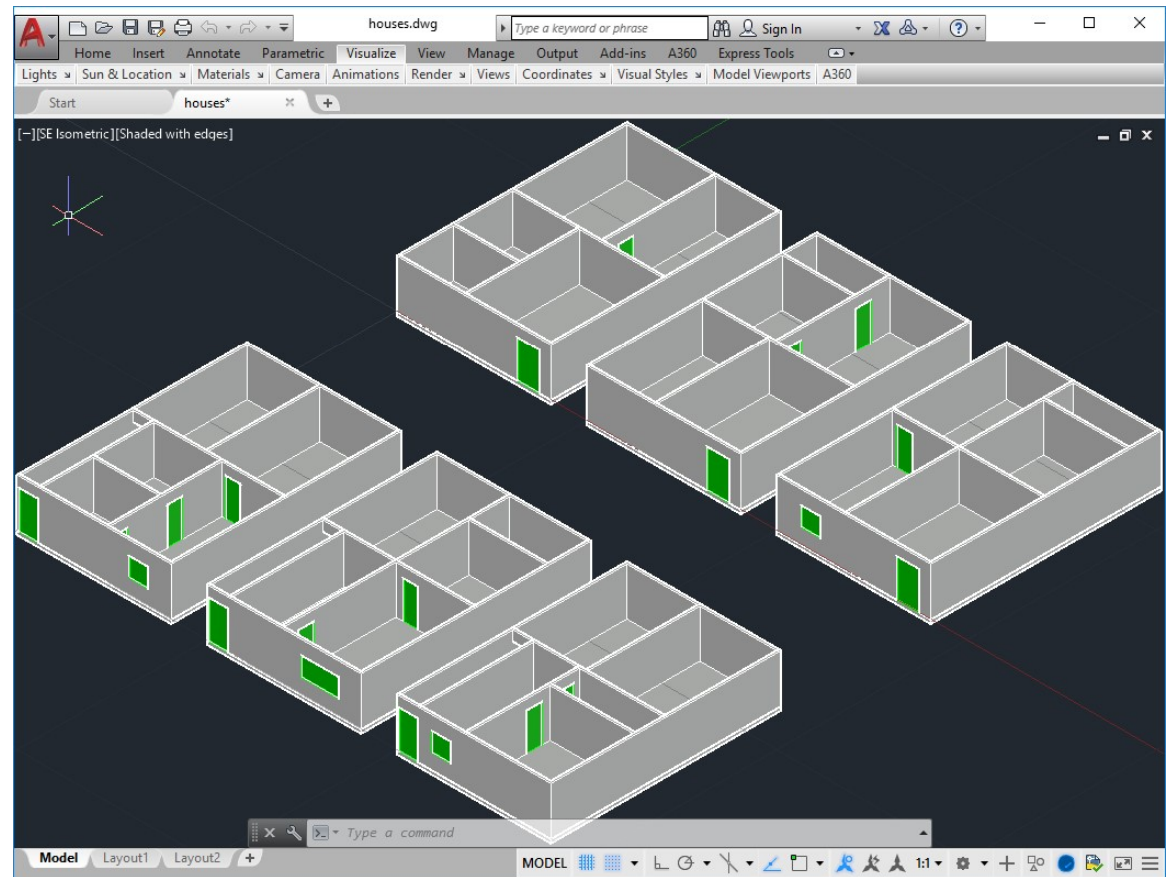


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Conclusions

Shape grammar interpreter

Bridge designers tool

Shape grammars are now more portable

Conclusions

Shape grammar interpreter

Bridge designers tool

Shape grammars are now more portable

Shape grammars are hard to implement

Thank you / Grazie / Merci / Arigatou

Questions?