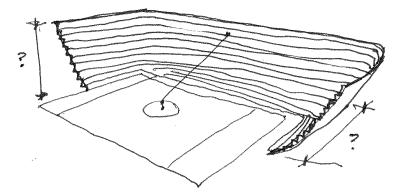
#### **Example**

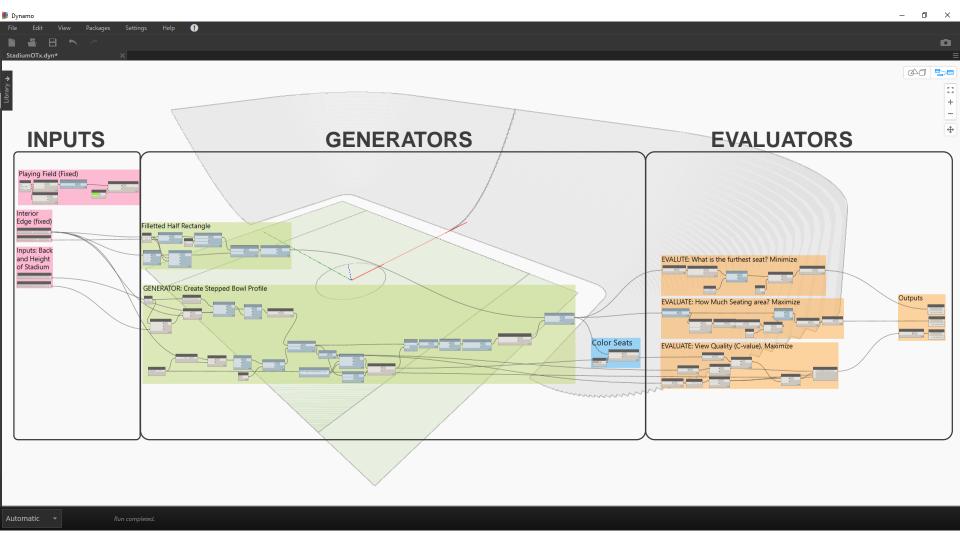
**Stadium Seating** 

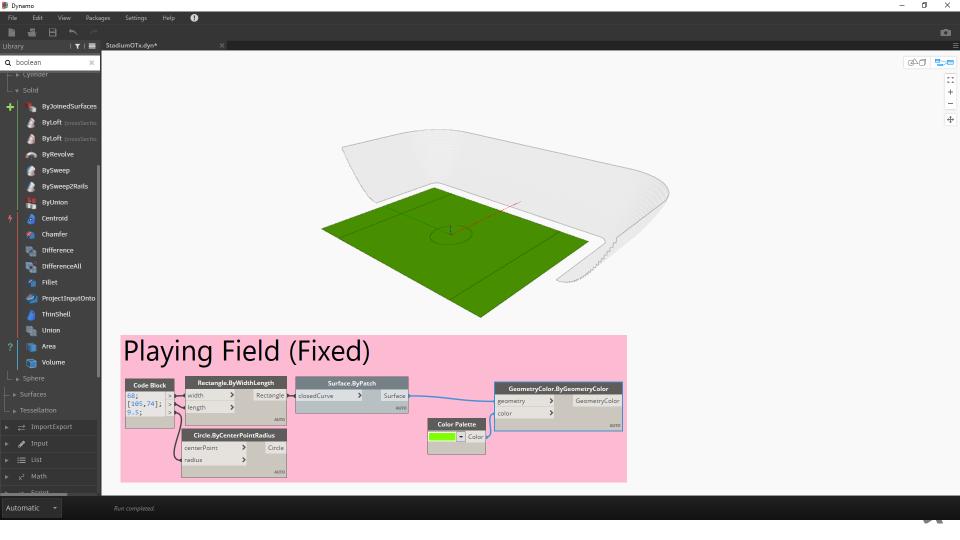
#### Goals

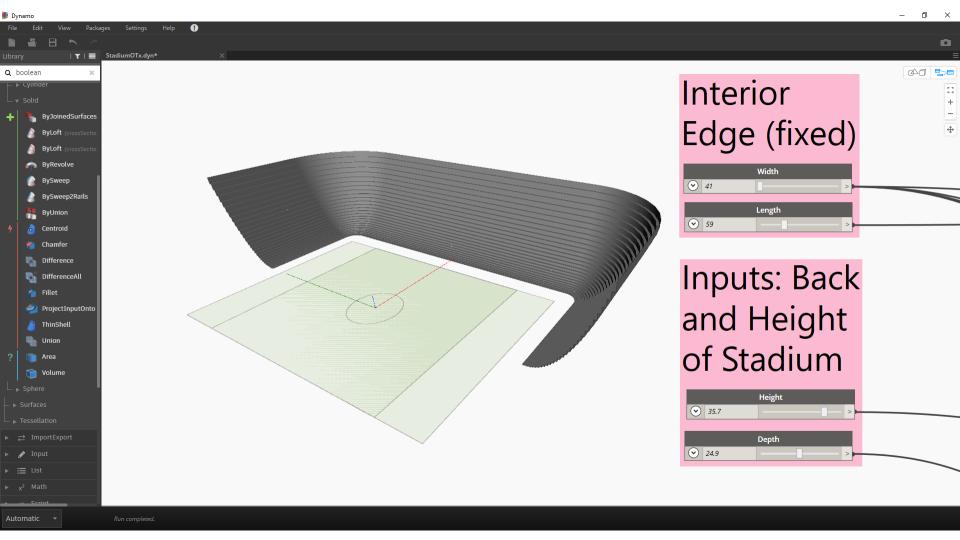
#### What are we solving for?

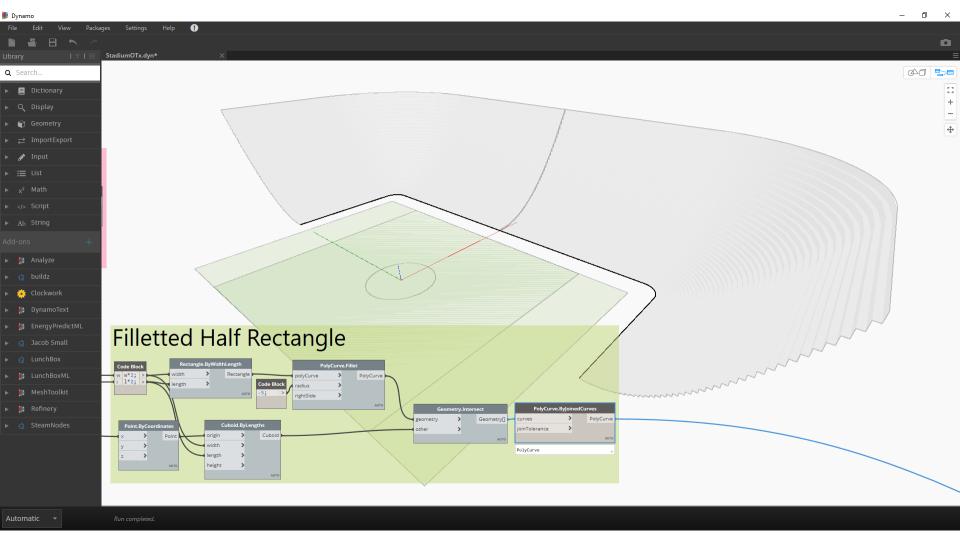
- Evaluate the size of a proposed stadium.
- Variable Inputs
  - 1. Height of seating
  - 2. Depth of seating
- Goals
  - 1. Maximize seating area
  - 2. Maximize view quality
  - 3. Minimize distance to farthest seat

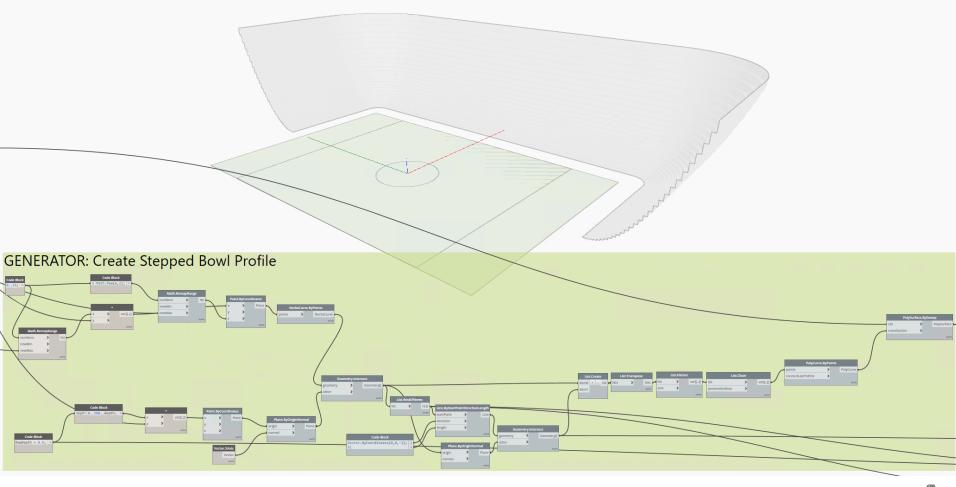


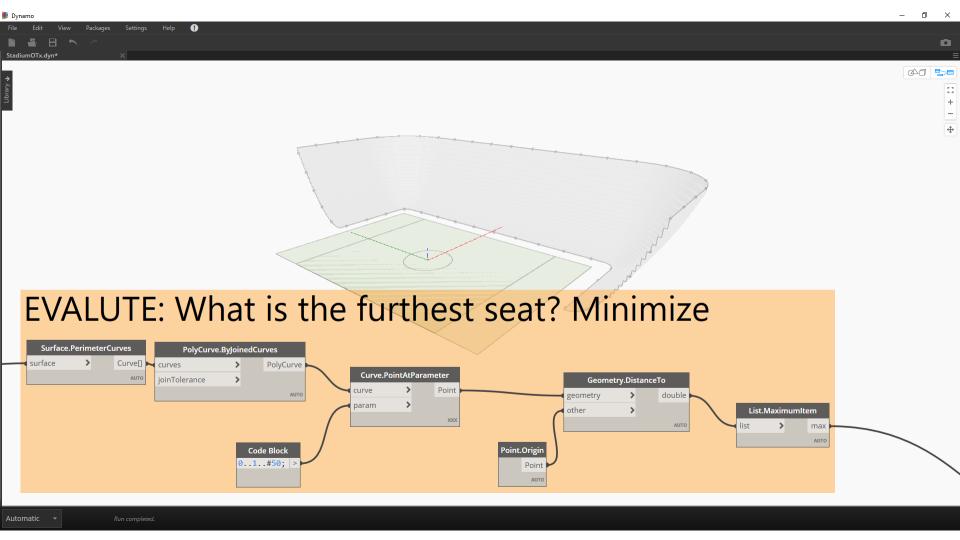


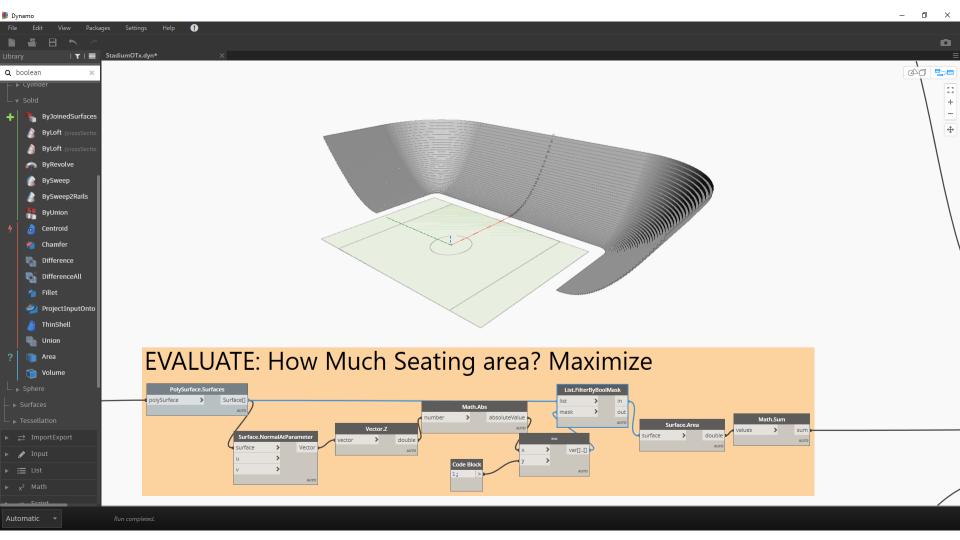


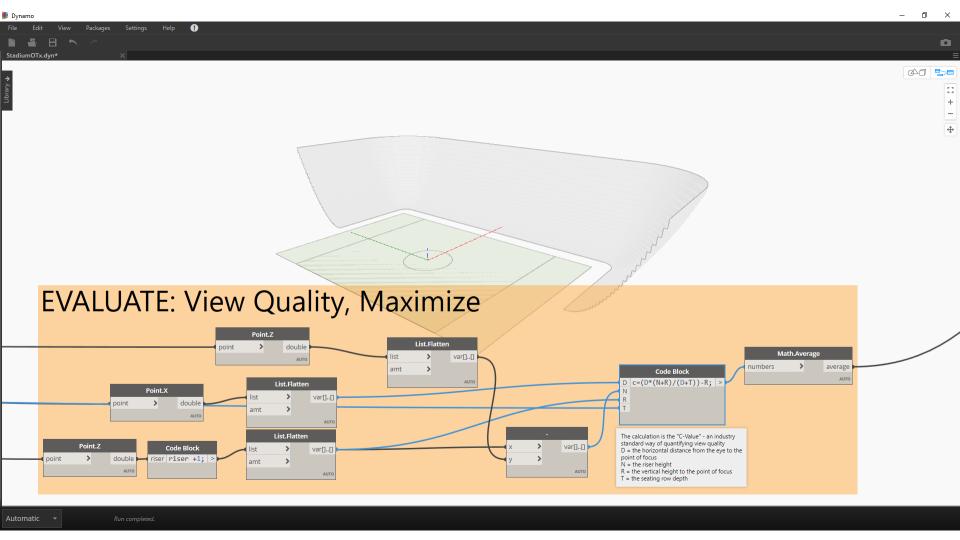


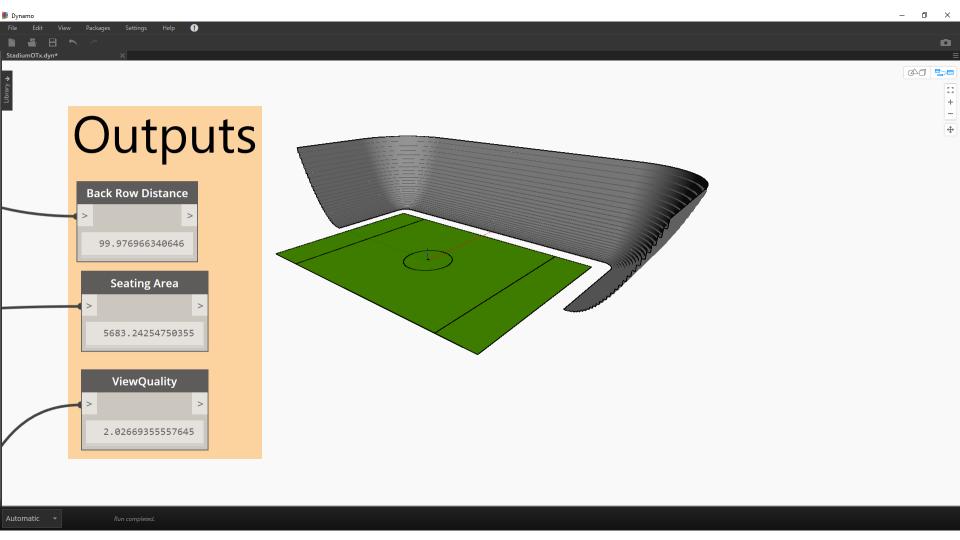


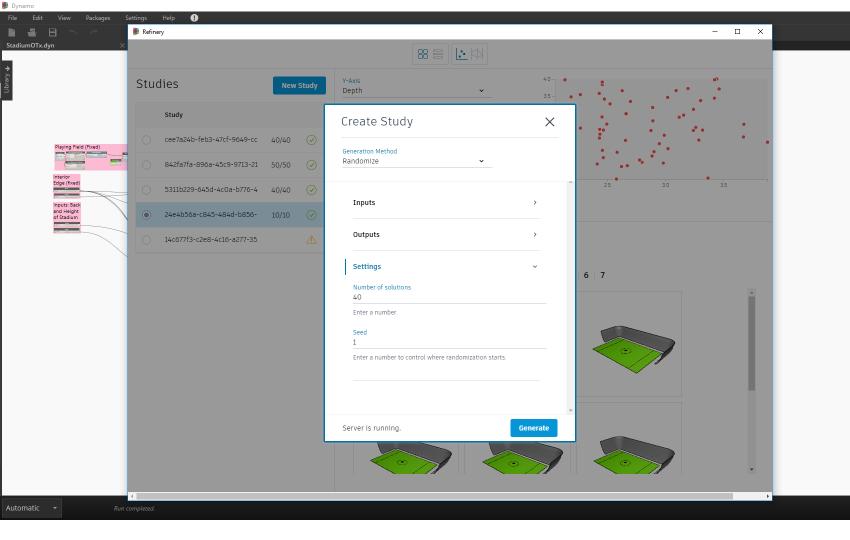






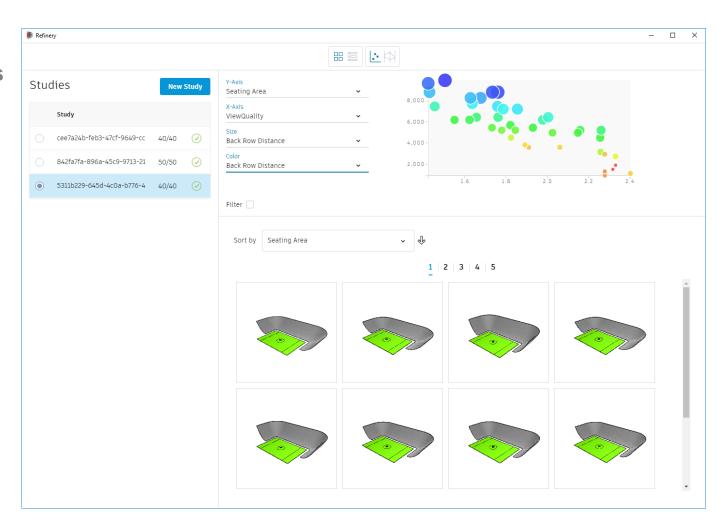






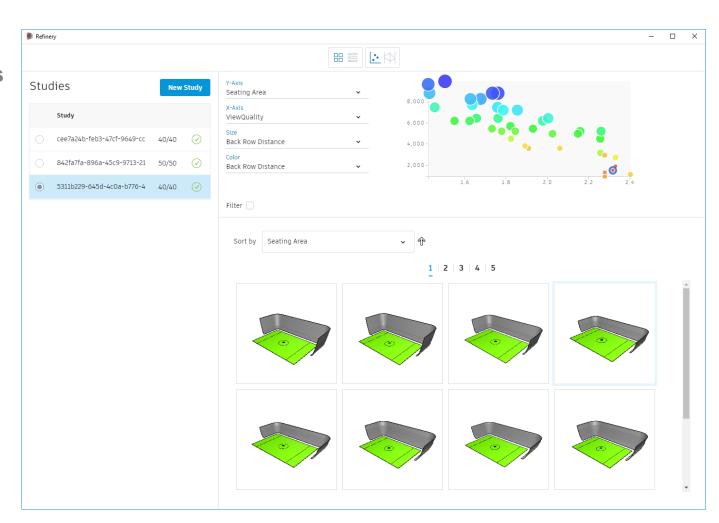
Ø0 **5** 

40 random runs Sorted by most Seating Area



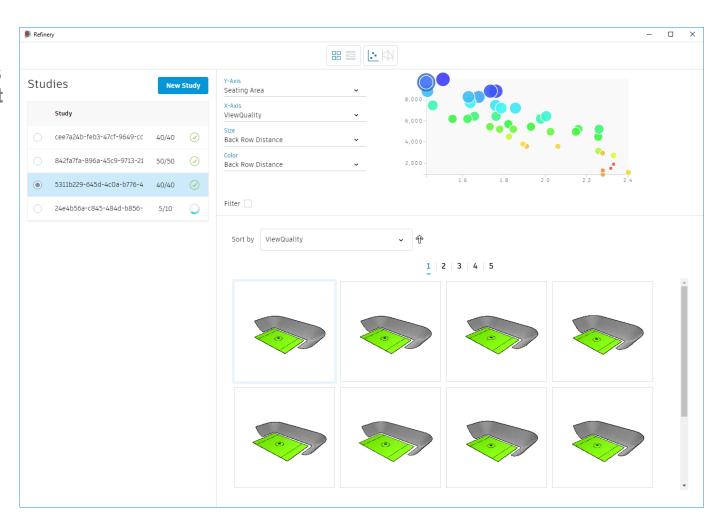


40 random runs Sorted by least Seating Area



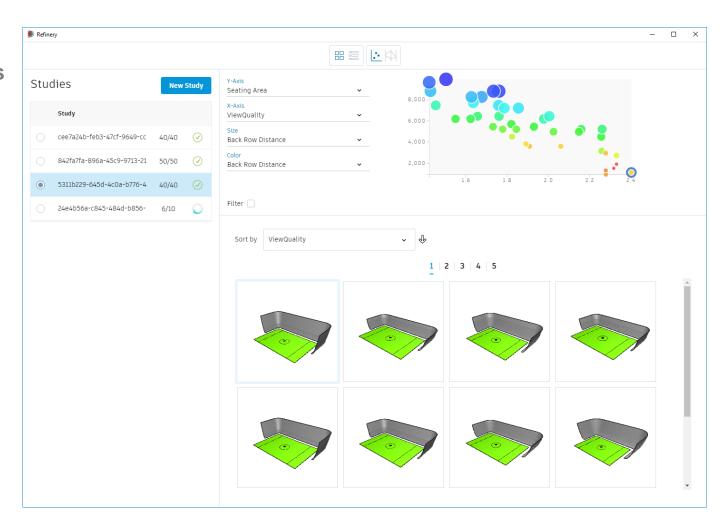


40 random runs Sorted by worst View Quality





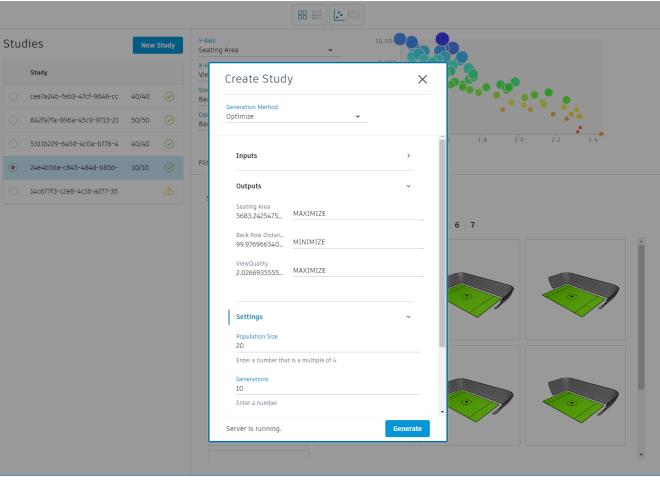
40 random runs Sorted by best View Quality





# Refinery Optimization

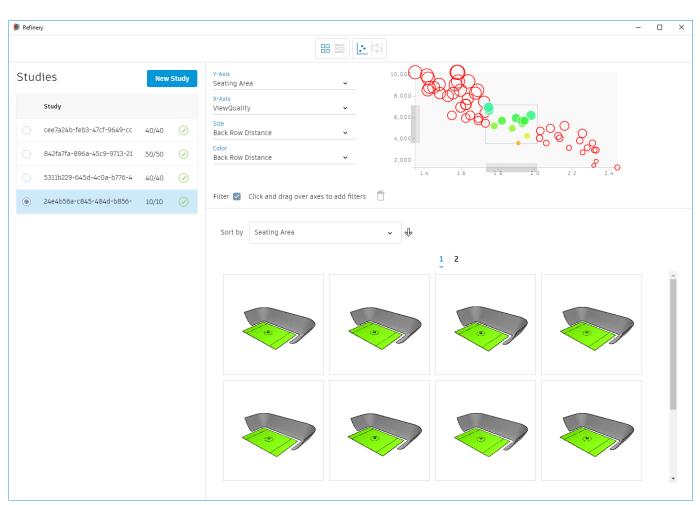
Refinery





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20x10 Optimization Compromise Solutions





#### Additional Learning Resources

- Getting Started with Dynamo:
  - https://primer.dynamobim.org/
- Dynamo Questions, inspiration:
  - https://forum.dynamobim.com/
- Design Script:
  - https://dynamobim.org/wp-content/uploads/forum-assets/colin-mccroneautodesk-com/07/10/Dynamo\_language\_guide\_version\_1.pdf
  - http://designscript.io/DesignScript\_user\_manual\_0.1.pdf
  - https://dynamobim.org/wp-content/links/DesignScriptDocumentation.pdf
  - https://github.com/Amoursol/dynamoDesignScript
- Refinery:
  - <a href="https://www.autodesk.com/solutions/refinery-beta">https://www.autodesk.com/solutions/refinery-beta</a>
- Generative Design education:
  - https://medium.com/generative-design





Make anything...