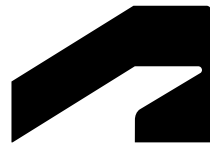




Generative Design and Dynamo Learning Resources

Jacob Small



Contact Info



Jacob Small

Technical Consultant, Generative Design

Boston Based

With Autodesk since 2017

Email: Jacob.Small@autodesk.com

Twitter: @JacobWSmall

Generative Design & Genetic Algorithm Concepts

General Inspiration & Education

- Info:
 - <https://damassets.autodesk.net/content/dam/autodesk/www/solutions/generative-design/autodesk-aec-generative-design-ebook.pdf>
- Inspiration:
 - <https://generativedesign.com/>
- Genetic Algorithm Deep Dive:
 - http://www.tojdac.org/tojdac/VOLUME6-AGUSPCL_files/tojdac_v060AGSE123.pdf
- Application of Genetic Algorithm in Practice:
 - <https://www.sciencedirect.com/science/article/pii/S2095263512000490>

Consumer Ready Generative Design Tools

Information on My Preferred Tools

- Autodesk's Generative Design:
 - About: <https://www.autodesk.com/solutions/generative-design>
 - Education: <https://www.generativedesign.org/>
- Wallacei for Grasshopper:
 - About: <https://www.wallacei.com/about>
 - Education: <https://www.wallacei.com/learn>

Autodesk's Generative Design in Practice

Casestudies, workshops and presentations

- Case Study and Workshops:
 - <https://www.autodesk.com/autodesk-university/article/Generative-Design-Architectural-Space-Planning>
 - <https://www.autodesk.com/autodesk-university/class/Two-Weeks-Four-Hours-How-Populous-Built-Efficiency-Generative-Design-2021>
 - <https://www.autodesk.com/autodesk-university/class/Non-Geeks-Guide-Optimizing-Daily-Workflows-Generative-Design-2020>
 - <https://www.autodesk.com/autodesk-university/class/Generative-Design-Hogwarts-Using-Tech-Instead-Magic-2020>

Dynamo

If you're going to use Autodesk's Generative Design tool, you'll want to learn this

- Dynamo Office Hours:
 - <https://www.youtube.com/playlist?list=PLdlF7MirPEC2yNFTGymESd3t7Xosfk9c2>
 - <https://forums.autodesk.com/t5/community-conversations/eb-p/communityconversations>
- Dynamo Info / News / Access
 - Main: <http://dynamobim.org/>
 - Blog: <https://dynamobim.org/blog/>
 - Downloads: <http://dynamobuilds.com/>
 - Dynamo Source Code: <https://github.com/DynamoDS/Dynamo>
- Dynamo Learning
 - Dynamo Primer: <http://primer.dynamobim.org>
 - Dynamo Forums: <https://forum.dynamobim.com/>
 - Dynamo Dictionary: <https://dictionary.dynamobim.com>
 - Dynamo Nodes: <https://dynamonodes.com/>

Dynamo Textual Coding

Sometimes it helps to write real code in Dynamo; these will help you get started

- Design Script:
 - Design Script Language Guide: <https://dynamobim.org/wp-content/links/DesignScriptGuide.pdf>
 - Design Script Presentation: <https://github.com/Amoursol/dynamoDesignScript>
- Dynamo Python:
 - Python for Dynamo AU Lab Handout 1:
https://docs.google.com/document/d/1_ms_ZyyKoaWbWbcio3CN5qTI2Ywq40Jep3SIsWOXXuI/edit#heading=h.76xq4kaz9plc
 - Python for Dyanmo AU Lab Handout 2:
https://github.com/Amoursol/dynamoPython/blob/master/images/DivingDeeper_ABeginnersLookAtPythonInDynamo_AU_London2018.pdf
 - Python for Dynamo examples: <https://github.com/Amoursol/dynamoPython>
 - Dynamo Python Primer:
<https://dynamopythonprimer.gitbook.io/>

Learning Resources

Bookmark these in your preferred browser

Dynamo Info / News

- Main: <http://dynamobim.org/>
- Blog: <https://dynamobim.org/blog/>
- Dynamo Builds: <http://dynamobuilds.com/>
- Dynamo GitHub: <https://github.com/DynamoDS/Dynamo>

Dynamo Learning

- Dynamo Primer: <http://primer.dynamobim.org>
- Dynamo Forums: <https://forum.dynamobim.com/>
- Dynamo Dictionary: <https://dictionary.dynamobim.com>
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Design Script:

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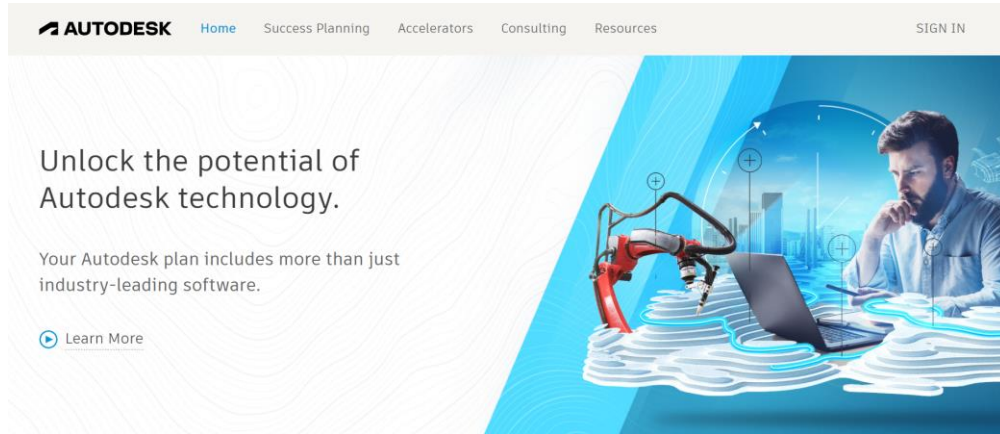
Dynamo Python:

- Python for Dynamo AU Lab Handout 1: https://docs.google.com/document/d/1_ms_ZyyKoaWbWbcio3CN5qTI2Ywq40Jep3SIsWOXXuI/edit#heading=h.76xq4kaz9plc
- Python for Dyanmo AU Lab Handout 2: https://github.com/Amoursol/dynamoPython/blob/master/images/DivingDeeper_ABeginnersLookAtPythonInDynamo_AU_London2018.pdf
- Python for Dynamo examples: <https://github.com/Amoursol/dynamoPython>
- Dynamo Python Primer: <https://dynamopythonprimer.gitbook.io/>

Generative Design:

- Info: <https://www.autodesk.com/campaigns/refinery-beta>
- Primer: <https://www.generativedesign.org/>
- Beta Site: <https://feedback.autodesk.com/key/RefineryLanding>

The Customer Success Learning Hub



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<https://customersuccess.autodesk.com/>

Questions?



