**3d-bin-container-packing**

A variant of the Largest Area Fit First (LAFF) algorithm

This library is imlementation of [this library](https://github.com/skjolber/3d-bin-container-packing) using python.

<https://github.com/diadorer/3d-bin-container-packing>

<https://docs.scipy.org/doc/scipy/reference/generated/scipy.stats.dirichlet.html>

# Probability Distributions (pomogeranate)

<https://pomegranate.readthedocs.io/en/latest/Distributions.html>

<https://github.com/jmschrei/pomegranate/blob/master/tutorials/B_Model_Tutorial_1_Distributions.ipynb>

<https://www.tensorflow.org/probability/api_docs/python/tfp/distributions/Dirichlet>

# Using a Dirichlet distribution for uncertainty wtih count data

<https://gotellilab.github.io/GotelliLabMeetingHacks/NickGotelli/DirichletSampler.html>

<https://numpy.org/doc/stable/reference/random/generated/numpy.random.multinomial.html>

<https://stackoverflow.com/questions/46657221/generating-markov-transition-matrix-in-python>

[**3dbinpackingjs**](https://github.com/keremdemirer/3dbinpackingjs)

<https://github.com/keremdemirer/3dbinpackingjs>

<https://www.mathworks.com/help/stats/mnpdf.html>

## Categorical data / Multinomial distribution

<http://christianherta.de/lehre/dataScience/bayesian/Multinomial-Dirichlet.slides.php>

# In-Depth: Kernel Density Estimation

<https://jakevdp.github.io/PythonDataScienceHandbook/05.13-kernel-density-estimation.html>

<https://scikit-learn.org/stable/modules/density.html>