



Tunny

The next-gen Grasshopper optimization tool.

license MIT release v0.8.0 downloads 1.2k

codefactor A code quality A maintainability B technical debt 5%

Stars 21 Forks 4 Open in Visual Studio Code

 **Tunny** is Grasshopper's optimization component using Optuna, an open source hyperparameter auto-optimization framework.

The following is taken from the official website

Optuna™, an open-source automatic hyperparameter optimization framework, automates the trial-and-error process of optimizing the hyperparameters. It automatically finds optimal hyperparameter values based on an optimization target. Optuna is framework agnostic and can be used with most Python frameworks, including Chainer, Scikit-learn, Pytorch, etc.

Optuna is used in PFN projects with good results. One example is the second place award in the [Google AI Open Images 2018 – Object Detection Track](#) competition.

Optuna official site

- <https://optuna.org/>



Install

First, Tunny runs on Windows only.

1. Download Tunny from [food4rhino](#) or [release page](#)
2. Right-click the file > Properties > make sure there is no "blocked" text
3. In Grasshopper, choose File > Special Folders > Components folder. Move Tunny folder you downloaded there.

4. Restart Rhino and Grasshopper
5. In Grasshopper, Place the Tunny component and double-click the icon to start downloading the necessary libraries.
6. Enjoy!



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Tunny use Python runtime & some python packages. These depend on their own licenses. Please see PYTHON_PACKAGE_LICENSE for more license information.



Usage



Quick usage

<https://user-images.githubusercontent.com/23289252/178105107-5e9dd9f7-5680-40d4-97b0-840a4f1f329c.mp4>



More details

Please see Tunny documentation page.

- <https://tunny-docs.deno.dev/>



Contact information



TWITTER



LINKEDIN

- HP : <https://hiron.dev/>
- Mail : support(at)hrntsm.com
 - change (at) to @
- Postings to [the discussion page](#) are also welcome.