

Informations-Visualisierung HU 6

In this exercise class we learned how to export Grasshopper geometries into a file format suitable for AI training.

Exercise:

- 1) Export around 3000 random geometries of your Grasshopper script from Homework #5 as .npy files. If you participated in this week's class, you have this task most likely already completed. Students who did not do Homework #5 or who have trouble exporting their own Grasshopper script can instead use the GH definitions from the file *Example and Poly Surface Scripts* found on the Teach Center. Follow the tutorial PDF in the Teach Center if you don't know how to export the files. Make a zip file out of the folder with your exported .npy files
- 2) Bake at least 5 random geometries you find interesting from your original GH file into Rhino and save the Rhino file (.3dm file)
- 3) Upload the **.zip file** and the **Rhino File** and the **GH with the export setup** to the Teach Center
 - a. *Lastname_Firstname_HU6.3dm (Rhino File)*
 - b. *Lastname_Firstname_Exports.zip (zipped folder)*
 - c. *Lastname_Firstname_HU6.gh (Grasshopper File)*
- 4) For the next class we will use the exported files to do AI training. To do so you need a google account with access to **Google Drive** and **Google Colab** (every standard google account should be fine). Make sure you know your username and password so you can log in from the computer room next week. We will train the AI with Google Colab. Google Colab is a cloud computation service which gives you online access to AI training tools. Although the basic version is free it is usually not sufficient for doing more advanced AI training. Therefore please buy some computation credits so we will not run into any troubles next class (see *Pay As You Go* ->100 Compute Units for 11,10€ is more than enough for the remaining semester)
<https://colab.research.google.com/signup>
- 5) Make sure you have your files (zip folder) and google account ready at the beginning of next class

Deadline 5.6.2025 – 10 Points