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**Hele Shaw Model Instructions**

**Introduction**

This step-by-step guide shows how to create a 3D model of a Hele-Shaw porous media cell that allows two-dimensional fluid flow.

**Materials**

* Anaconda
* Inkscape
* Autodesk Fusion 360

**I. Retrieve Python Codes and MicroCT image**

1. Create a new folder which will now be referred to as the Work Folder.
2. Go to <https://github.com/Azshian/Hele-Shaw-Model> and download these files to the Work Folder.
   1. Python
   2. Python
   3. Python
3. Go to <https://www.imperial.ac.uk/earth-science/research/research-groups/perm/research/pore-scale-modelling/micro-ct-images-and-networks/>
4. View the different image scans by clicking on the network name. This guide will select **Sand Pack (LV60B).**
5. Click [**Download image (binary and ASCII)**](http://www3.imperial.ac.uk/pls/portallive/docs/1/46729696.ZIP)which will give a compressed zip file.
6. Extract the zip file and move the .dat file into the Work Folder. The .raw file is unused.

**II. Create a slice from the Pore Network**

1. Open