Analysis of softwares:

SweetHome 3d:

Input File Format: We cannot import file. But draw on editor by yourself.

Output file format:

* 2d file format is .svg.
* 3d file format is .sh3d, .obj
* .pdf

Sketch Up:

Input file format:

.jpg but required a lot of manual work.

Output file format:

.skp

Free CAD:

**files** can be exported and imported in the following **file formats**: DXF, SVG (Scalable Vector Graphics), STEP, IGES, STL (STereoLithography), OBJ (Wavefront), DAE (Collada), SCAD (OpenSCAD), IV (Inventor) and IFC

Smartdraw Software

Input File format:

We can draw floor plan on editor as well as import files with extension .dxf made on AutoCAD’14.

2-D Output File Format:

* .pdf
* .html
* .bmp
* .jpeg
* Visio, .ppt, .docx

Freecad API

The FreeCAD code is programmed mainly in C++, but relies heavily on Python.

FreeCAD is an avid user of other open-source libraries. Besides Python and Qt, used by the core and almost all of the modules, the two heavyweight libraries used throughout most modules are [OpenCasCade Technology](https://en.wikipedia.org/wiki/Open_Cascade_Technology) and [Coin3D](http://www.coin3d.org/). OpenCasCade is used to create and manage all the solid geometry of FreeCAD, while coin3D is used to manage the 3D view. OpenCascade is used mainly in the App world, and coin3D exclusively in the Gui world.