



IfcOpenShell

the **open source** Ifc toolkit
and geometry engine

[LEARN MORE](#)

what is ifcopenshell?

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why ifcopenshell?

Reliable

Used by many companies and free software projects like FreeCAD + BlenderBIM Add-on.

[Learn More](#)

Multi-Language

C++ and Python support, documentation, tutorials and snippets.

[Start Coding](#)

Ifc Schemas

Supports IFC releases IFC2x3 TC1, IFC4 Add2 TC1, and IFC4.3

[About IFC](#)

Keep it Simple

Python API with over 250 high-level use cases keeps writing complex IFC super simple

[Read the docs](#)

Build it all

Support (almost) all IFC geometry

[Learn More](#)

3D and 2D

Drawing generation supported.

[Get started](#)

More tools

Collection of Unix-like tools for clash detection, CSV, diffing, patching and more.

[Github Repo](#)

Community

Join the OSArch community and learn how to contribute to this project.

[Contribute](#)

Getting started is easy!

```
>> import ifcopenshell
>> f = ifcopenshell.open("/my_model.ifc")
```

