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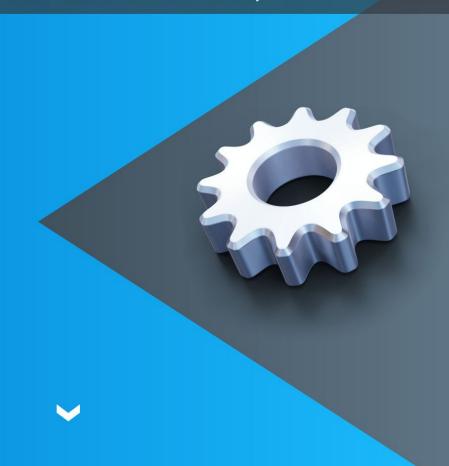
Open-source design ecosystems around

FreeCAD

Your own 3D parametric modeler

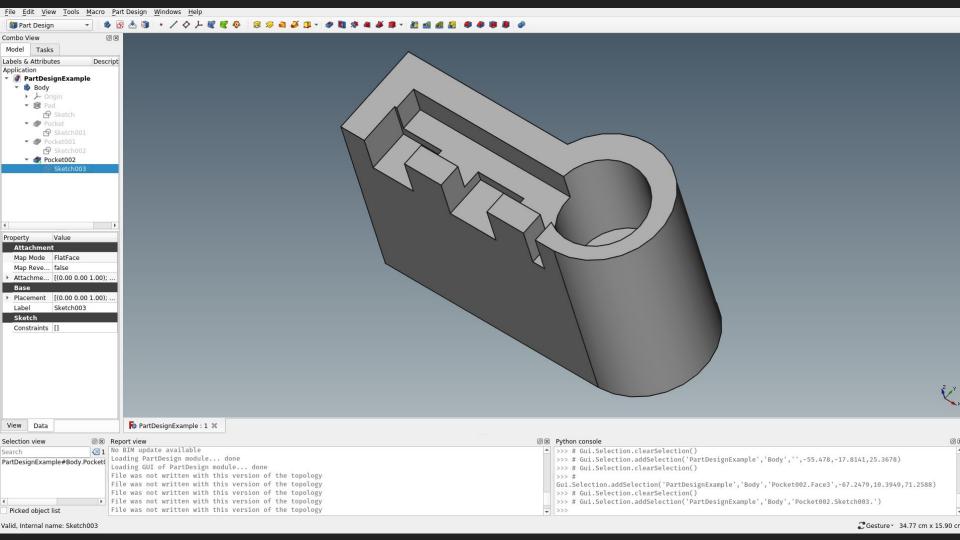
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See what's new



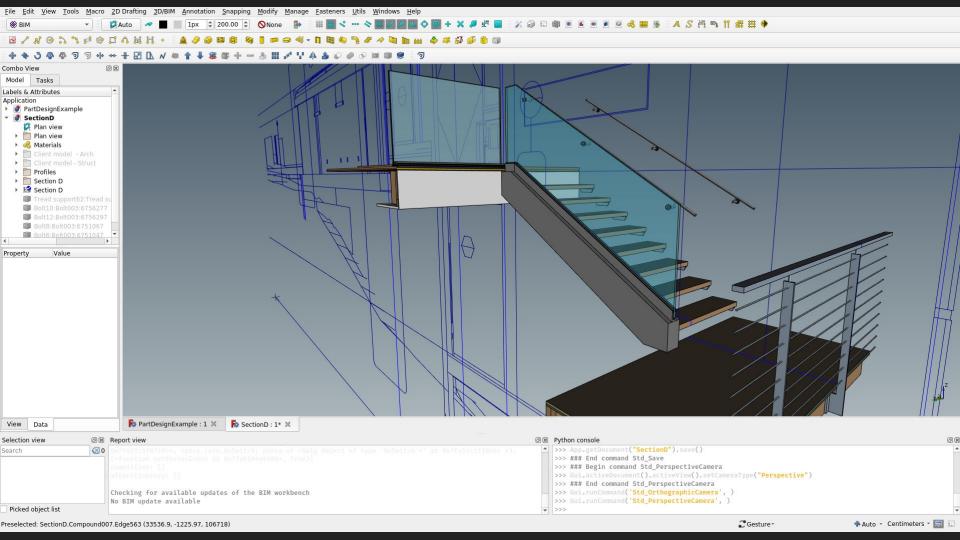
Quick resume of FreeCAD

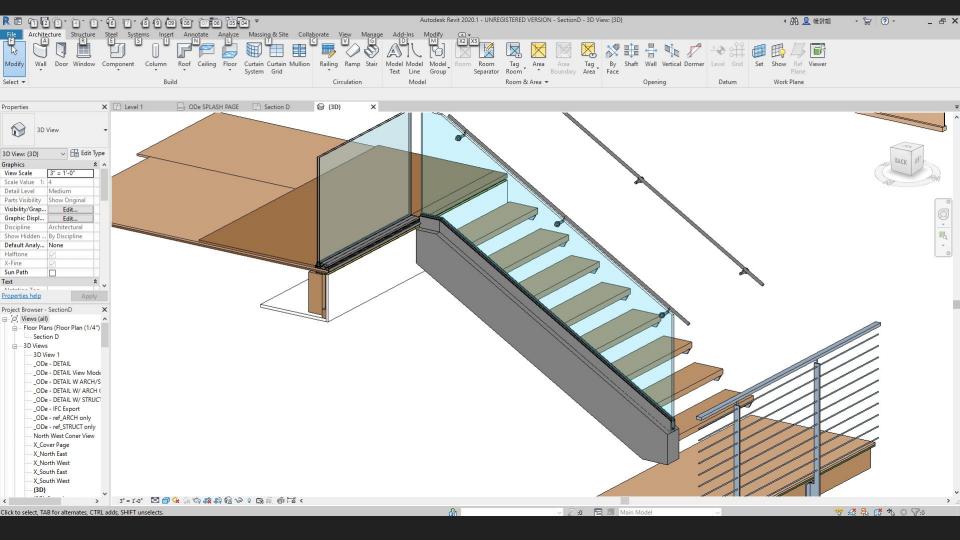
- Open-source 3D modelling application (GUI or console/python)
- "Precise", NURBS-based parametric modeling
- Most suited to design objects to be built in the real world
- Started in 2002, now ~20 active developers
- Heavily modular (everything is a "plugin")
- Big collage of open-source libraries and engines
- Large part of developers had no programming background
- No very clear separation between users and developers

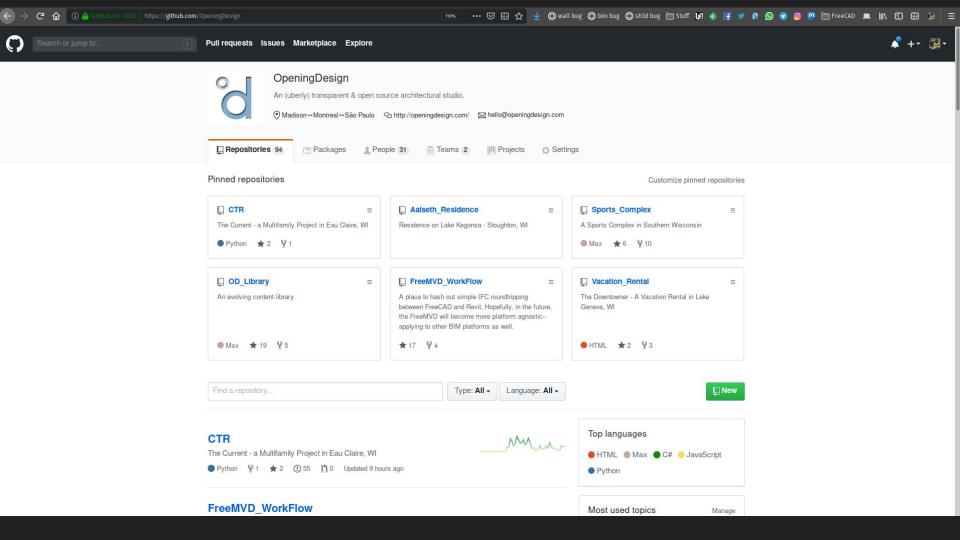


Yorik

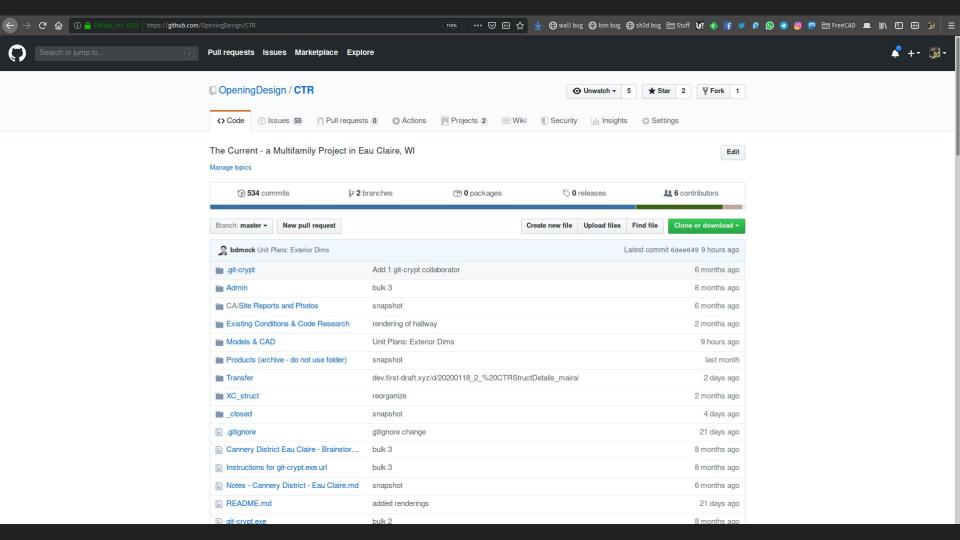
- OpeningDesign: An open architecture studio
- Everything done collaboratively online
- Most projects are open-source (client's personal details encrypted)
- Heavy use of open-source development tools (Git, issue trackers, online meetings,...)
- Worldwide, no physical location
- WikiLab: an example of cross-disciplines work
- Architecture, engineering, CNC, social experiment
- Open-source project, evolves over time



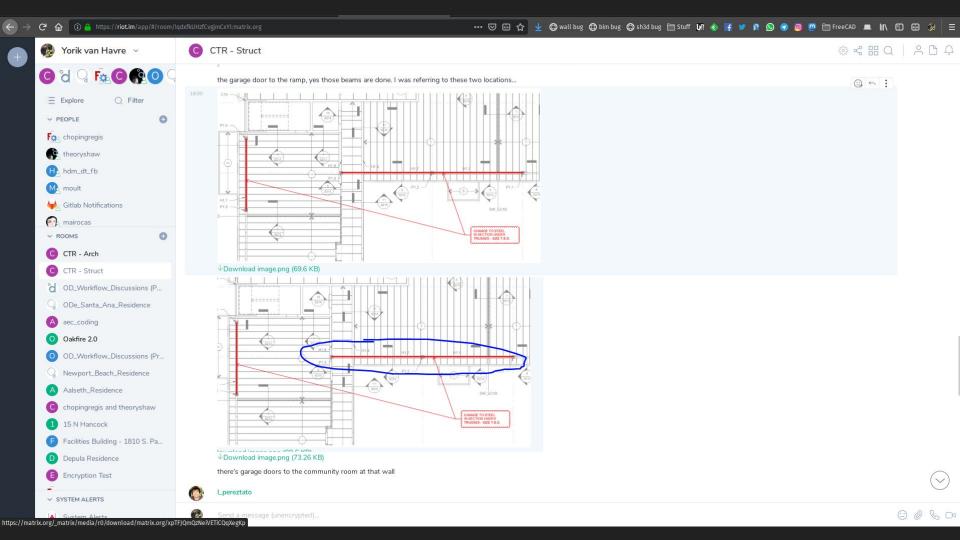


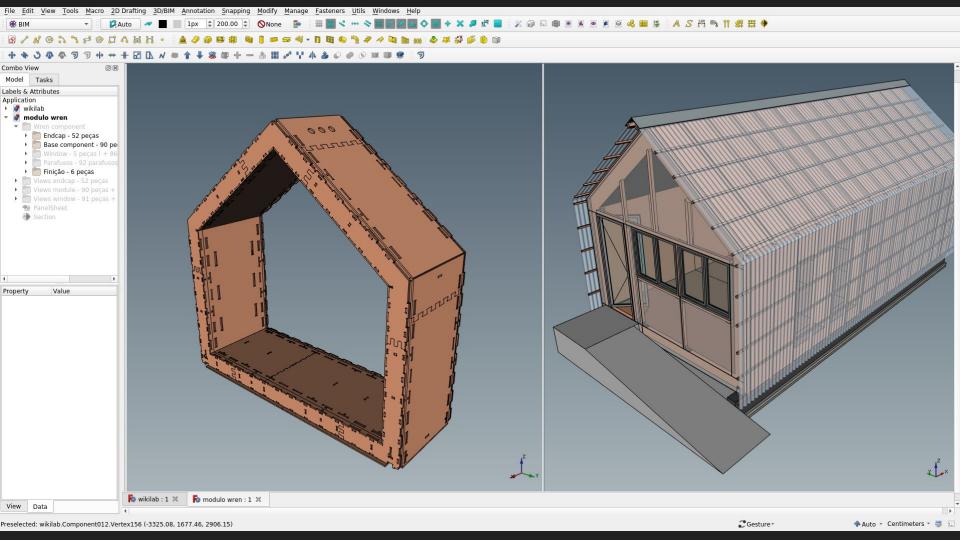










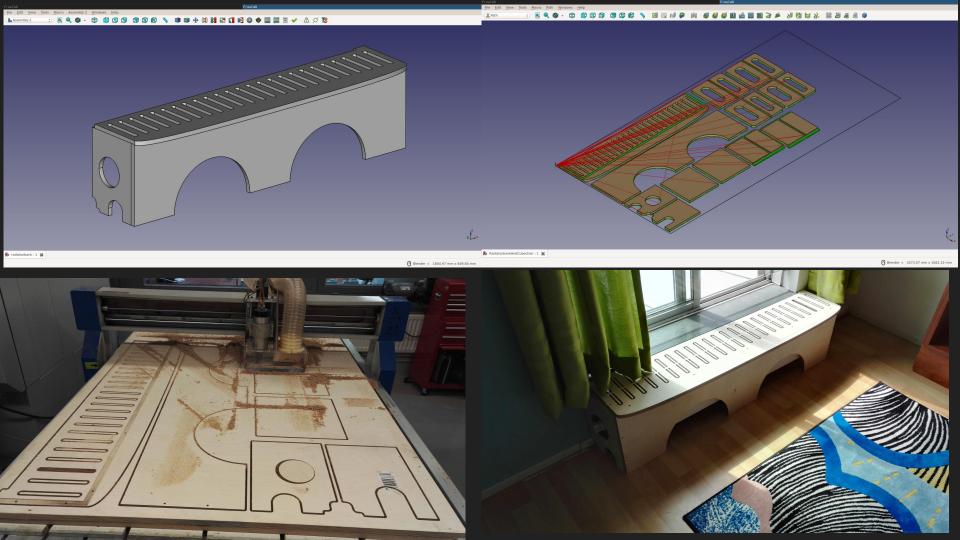


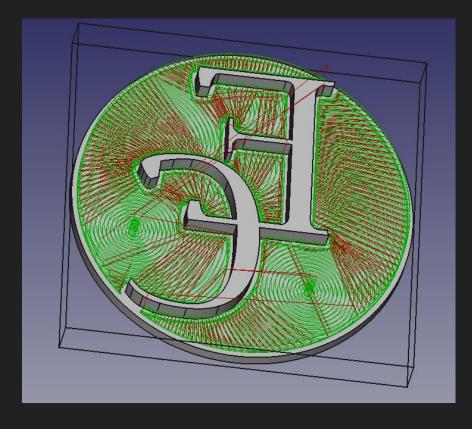


Brad

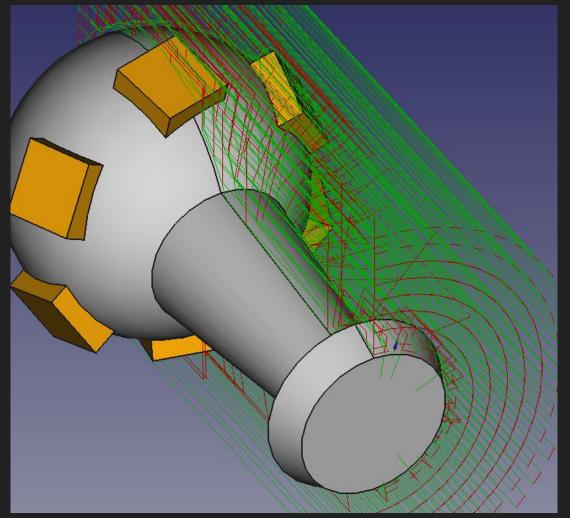
Path Workbench (CAM)

- Started in 2014
- Small C++ core for storage and visualization. Most functionality in Python
- Leverage 3rd party libraries for toolpath generation
- Many 'on-ramps' for contribution
- ~5-7 regular code contributors. Many more contributing to wiki, support, documentation



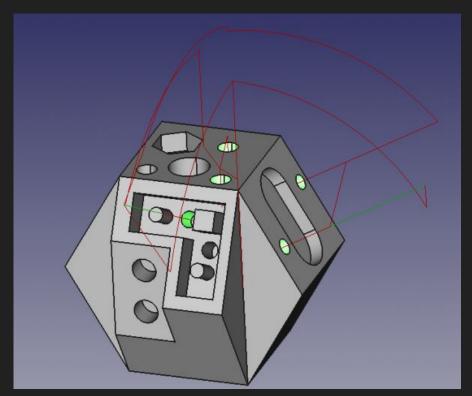


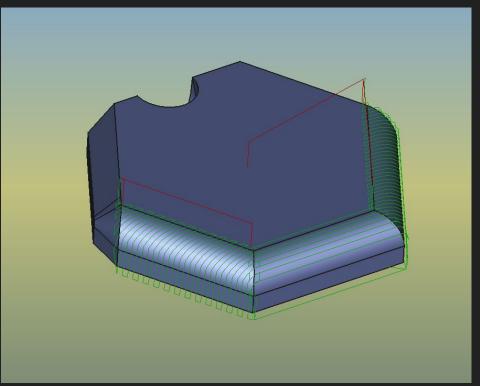


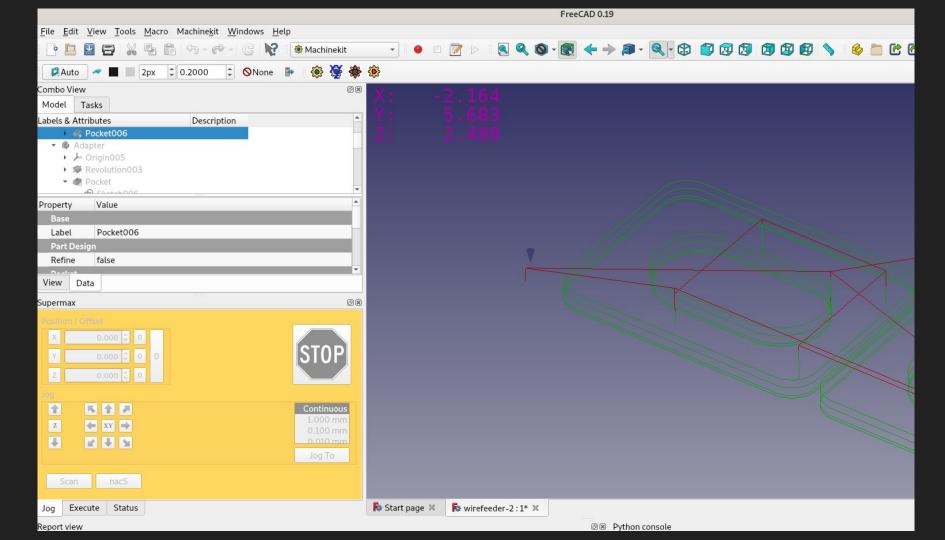












Post-Processors

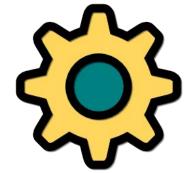






DynaPath









Thanks for watching!

FreeCAD

Your own 3D parametric modeler

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- FreeCAD: https://www.freecadweb.org
- Brad Colette: @sliptonic
- Kurt Kremitzki: @kkremitzki, @thekurtwk
- Yorik van Havre: @yorik, @yorikvanhavre