Open-source design ecosystems around

**FreeCAD**

Your own 3D parametric modeler

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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
The Current - a Multifamily Project in Eau Claire, WI

<table>
<thead>
<tr>
<th>Branch</th>
<th>master</th>
<th>New pull request</th>
<th>Latest commit &amp;dee540 9 hours ago</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>534 commits</td>
<td>2 branches</td>
<td>0 packages</td>
</tr>
</tbody>
</table>

- **bdmock Unit Plans: Exterior Dims**
  - .git-crypt: Add 1 git-crypt collaborator
  - Admin: bulk 3
  - CA/Site Reports and Photos: snapshot
  - Existing Conditions & Code Research: rendering of halfway
  - Models & CAD: Unit Plans: Exterior Dims
  - Products (archive - do not use folder): snapshot
  - Transfer: dev.fist-draft.xyz/c/d20200118_2_%20CTRStructDetails_maira/
  - XC_struct: reorganize
  - _closed: snapshot
  - .gitignore: .gitignore change
  - Cannery District Eau Claire - Brainstorming: bulk 3
  - Instructions for git-crypt.exe: bulk 3
  - Notes - Cannery District - Eau Claire.md: snapshot
  - README.md: added renderings
  - git-crypt.exe: bulk 2
  - 8 months ago
the garage door to the ramp, yes those beams are done. I was referring to these two locations...

there's a garage door to the community room at that wall
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
Thanks for watching!

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