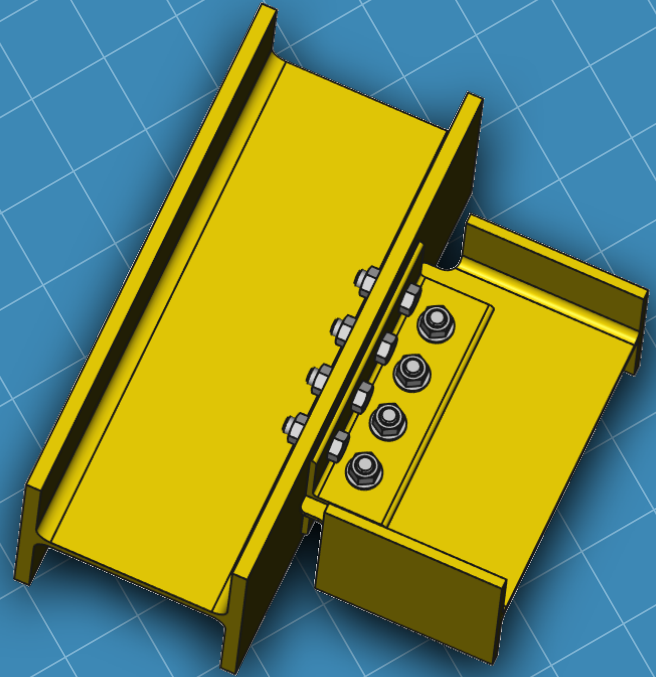


FreeCAD

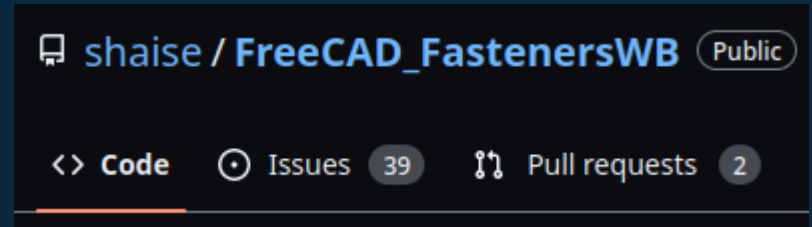
Fasteners Workbench

Presented by: Alex Neufeld



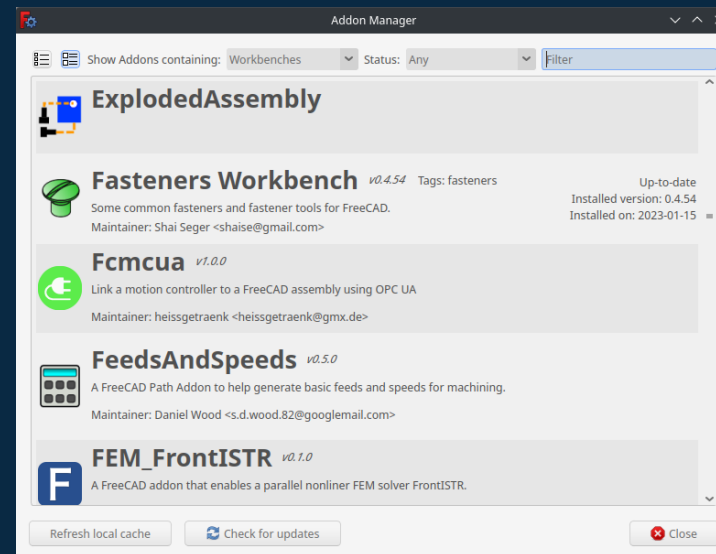
Overview

- Mechanical design
- Thread Design
- Assembly
- Bill-of-materials (BOM)



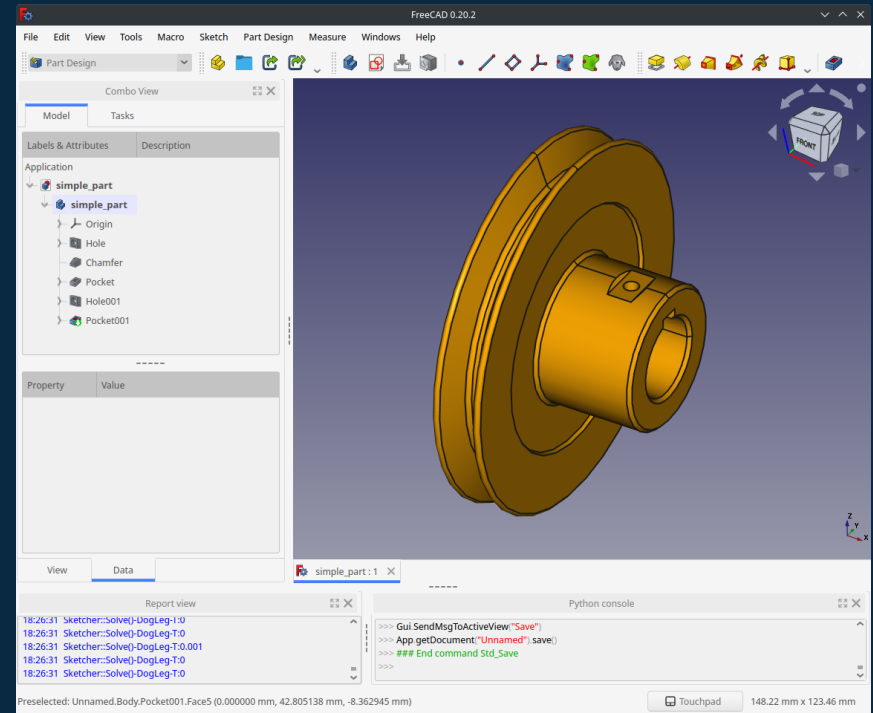
Installation

Use the Addon Manager!



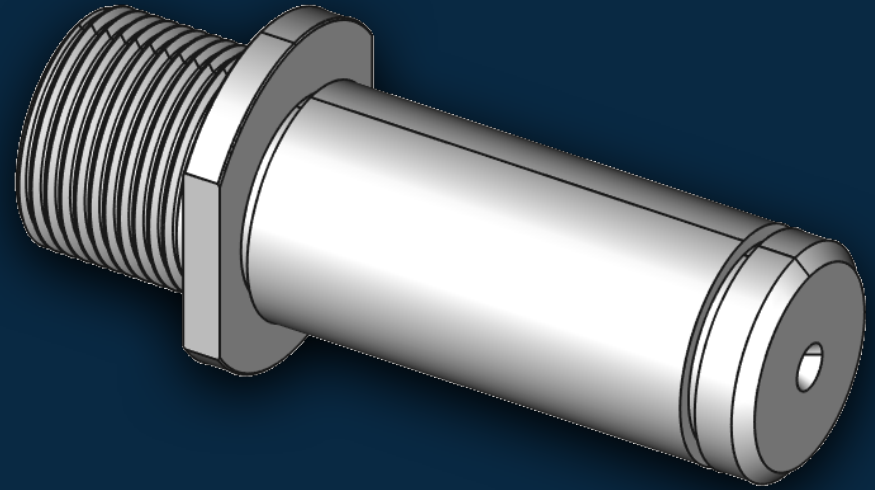
Basic Usage

Let's add a set screw
to this part ➡



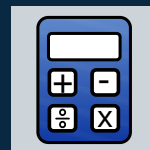
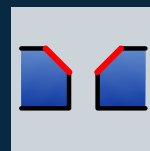
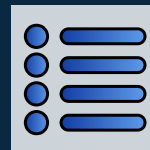
Thread tools

- Internal / External
- Boolean operations
- Part / PartDesign



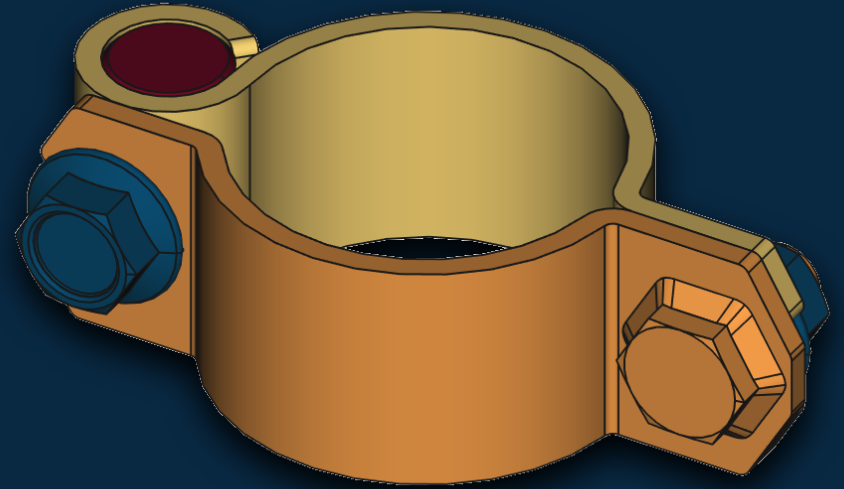
Other features

- Bill-of-materials creation
- Parametric countersink / counterbore creation
- Thread ID calculation



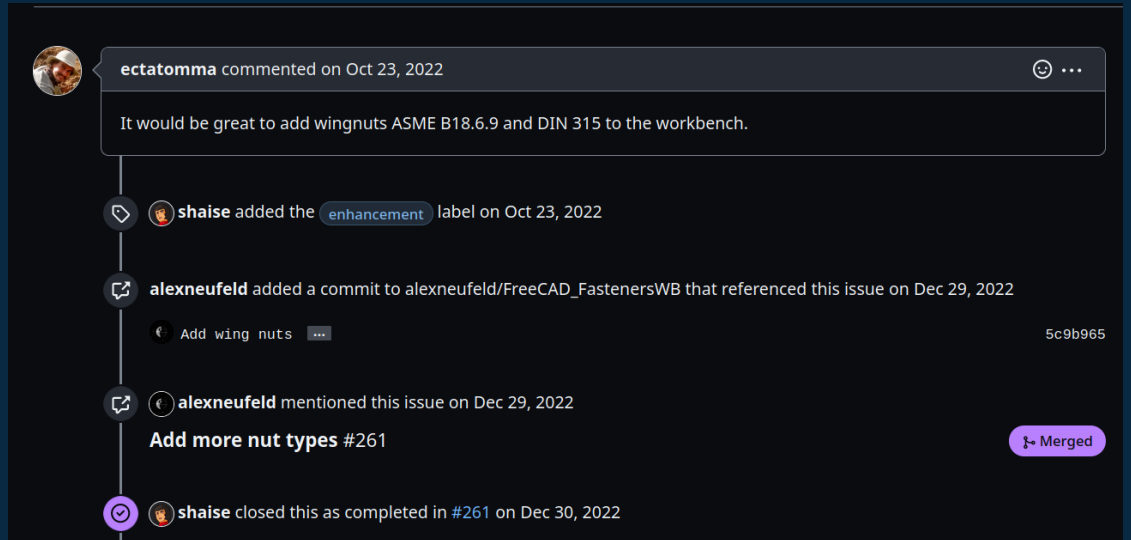
Advanced Usage

- More solid modelling techniques
- Combine with an Assembly Workbench



Get Involved

- Issues or PRs on Github
- FreeCAD forum discussion



The screenshot shows a GitHub issue thread for "Add more nut types #261". The issue was created by **ectatomma** on Oct 23, 2022, with the text: "It would be great to add wingnuts ASME B18.6.9 and DIN 315 to the workbench." The thread includes several updates: **shaise** added the "enhancement" label on Oct 23, 2022; **alexneufeld** added a commit to alexneufeld/FreeCAD_FastenersWB that referenced this issue on Dec 29, 2022, with the commit message "Add wing nuts" and hash 5c9b965; **alexneufeld** mentioned this issue on Dec 29, 2022; and **shaise** closed the issue as completed in #261 on Dec 30, 2022. A purple "Merged" button is visible at the bottom right of the thread.

End

Links:

[Github Repository](#)

[FreeCAD Forum Thread](#)

[Examples from this Presentation](#)

Contact Me:

Github: [@alexneufeld](#)

Forum: [@alex_55](#)

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