ENSA





O TRABALHO

TRANSFORMA O ESPAÇO:

ARQUITETURA E URBANISMO NAS PERIFERIAS DO MUNDO

FREECAD: COMO FUNCIONA UM PROJETO COLABORATIVO?

Yorik van HavreArquiteto / desenvolvedor



FREECAD



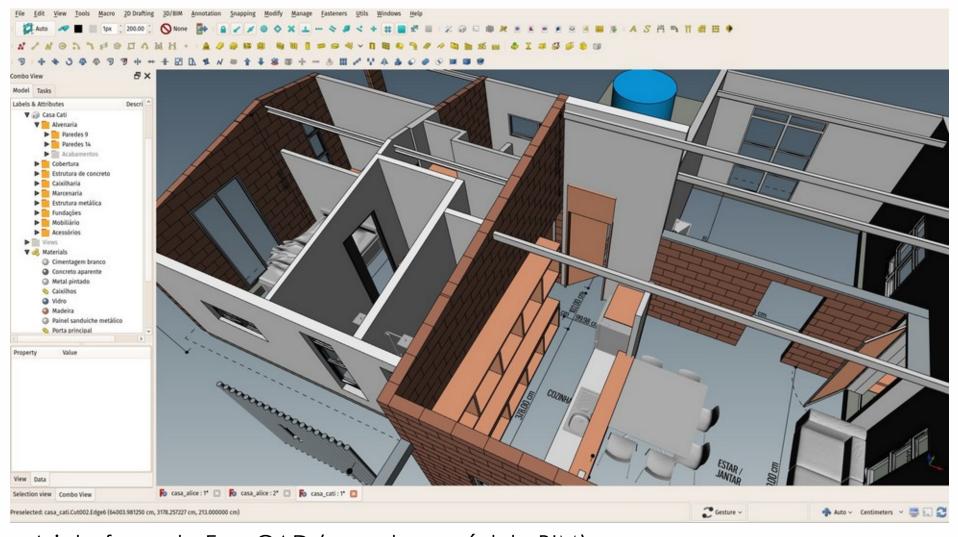
- HTTPS://FREECADWEB.ORG
- APLICATIVO DE MODELAGEM 3D PARAMÉTRICA
- SOFTWARE LIVRE, DESENVOLVIDO POR UMA COMUNIDADE
- MULTI-PLATAFORMA (WINDOWS, MACOS, LINUX)
- MULTIFUNCIONAL (CAD, BIM, CAM/CNC, FEM, ...)
- ALTAMENTE CUSTOMIZÁVEL E "HACKEÁVEL"

O PROJETO

- O CÓDIGO E GERENCIADO POR SISTEMA GIT (GESTÃO DE VERSÕES)
- O CÓDIGO É ALTAMENTE MODULAR E DE FÁCIL ACESSO
- QUALQUER PESSOA PODE PARTICIPAR, DE VÁRIAS MANEIRAS
- O PROJETO NÃO TEM "DIREÇÃO" MAS TEM "CURADORES"
- DECISÕES, QUANDO NECESSÁRIAS, SÃO POR CONSENSO



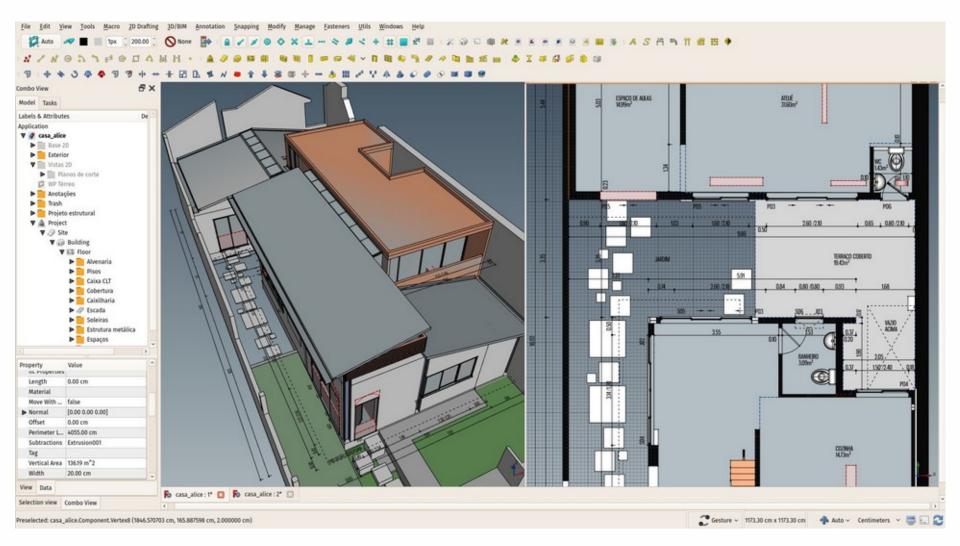
O FREECAD



A interface do FreeCAD (usando o módulo BIM).

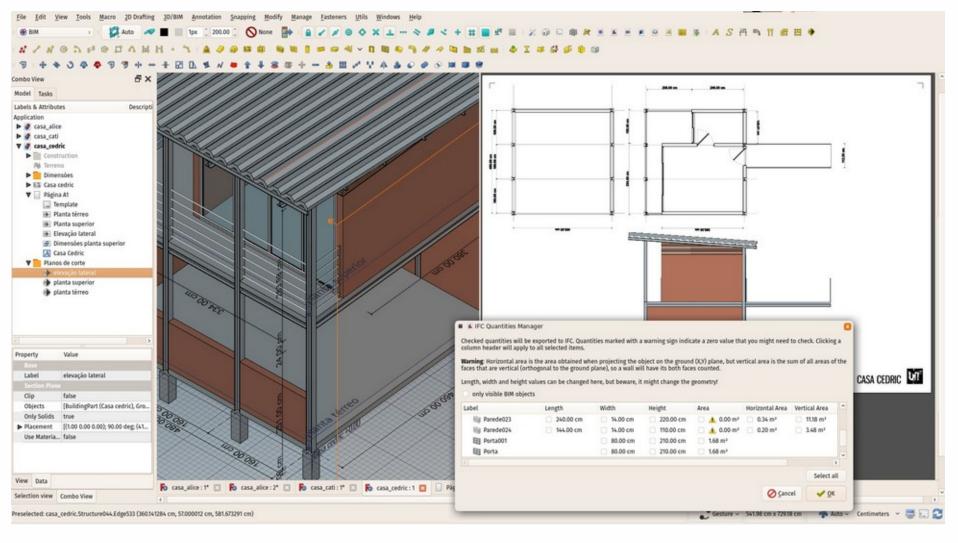
Permite modelar, desenhar, anotar, assinar materiais, importar/exportar, etc.





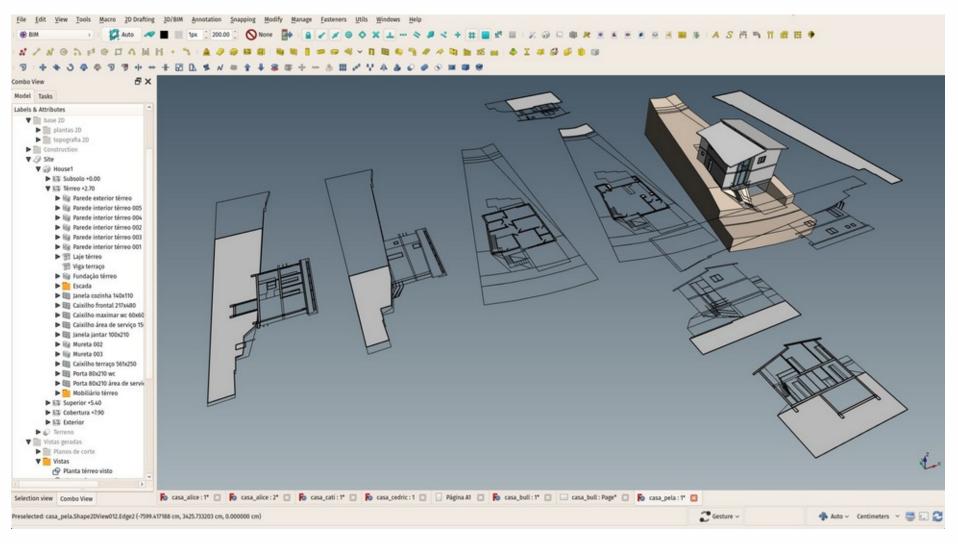
Tudo é paramétrico. Todos os objetos do modelo aparecem ao lado, as propriedades dos objetos são editáveis, tudo se atualiza em tempo real.





Podem ser criadas vistas 2D (plantas, cortes, etc...) anotadas, modelos podem ser exportados para muitos formatos, inclusive IFC/OpenBIM



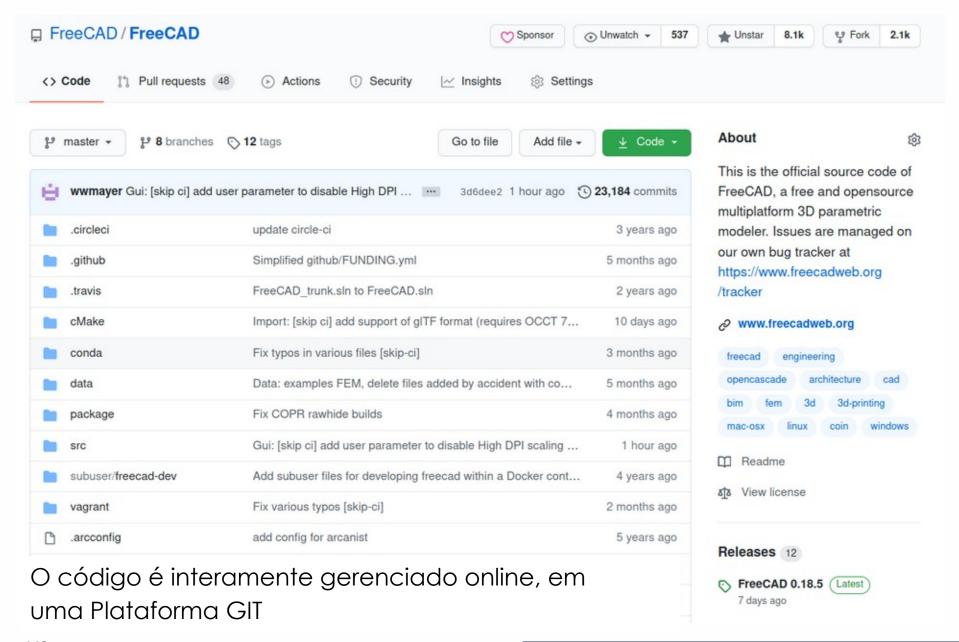


Todos os dados do modelo são abertos e acessíveis, todos os tipos de processos de trabalho são possíveis

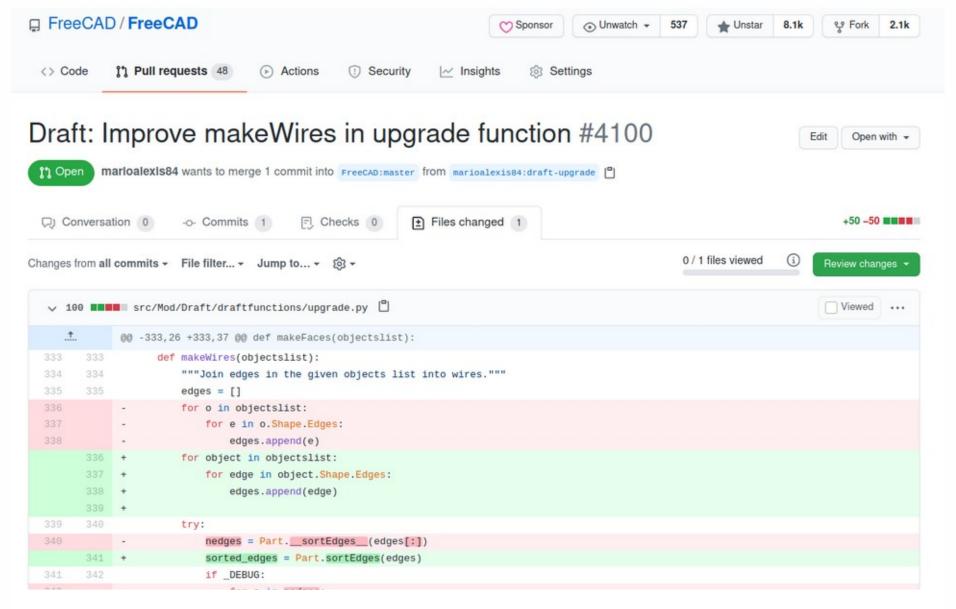


O PROJETO: COMO FUNCIONA



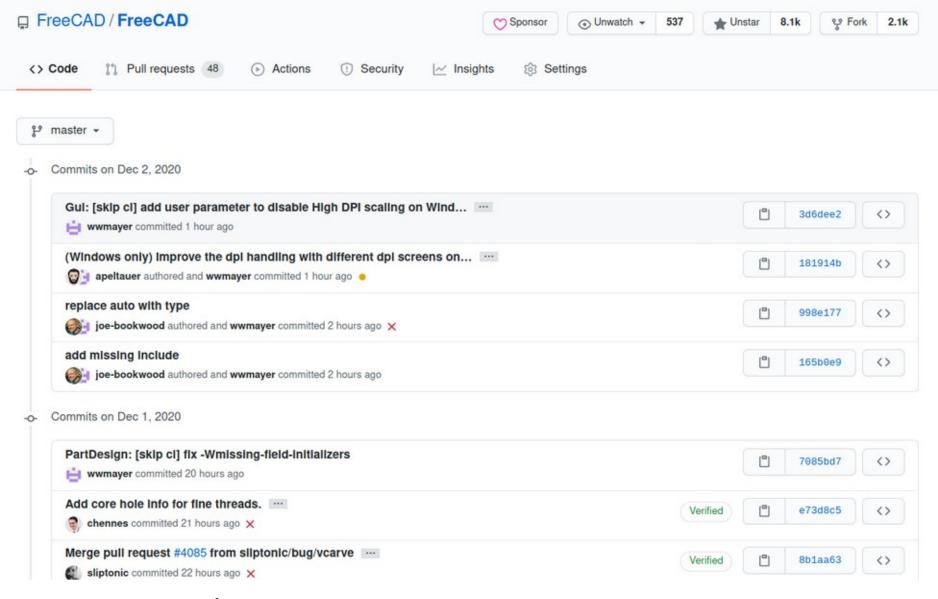






Contribuições são submetidas a um processo de curadoria

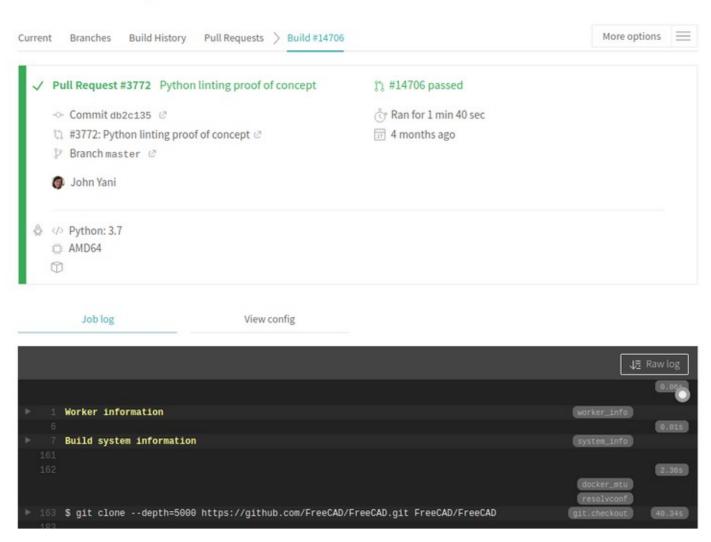




Toda mudança é registrada, testada e pode ser revertida

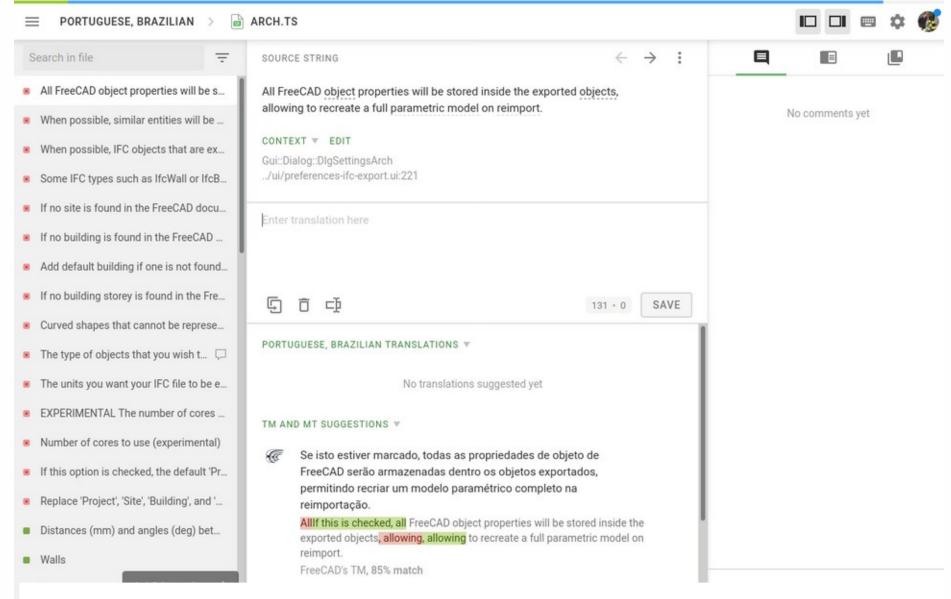


FreeCAD / FreeCAD () build canceled



Testes automáticos são feitos a cada mudança





Traduções feitas inteiramente pela comunidade





Page Discussion

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Search FreeCAD Documentation

Arch Module

Translate this page

polski • português • português do Brasil • • română • • svenska ≡ • čeština ≡ • български ≡ • русский 4 • українська • 中文 ■ • 中文 (中国大陆) • • 中文 (台灣) ■ • 中文 (繁體) ■ • 日本語 • • 한국어 •

Previous: Std Base



Next: Draft Module 🔊



Q

General usage

Overview

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User Hub Manual Tutorials Installing Getting started Navigation styles Customizing FreeCAD Commands list

Workbenches

Workbenches list Arch Draft

FEM Mesh

Part

OpenSCAD

PartDesign

Path Points

Raytracing

Introduction [edit]

The Arch Workbench provides a modern building information modelling@ (BIM) workflow to FreeCAD. with support for features like fully parametric architectural entities such as walls, beams, roofs, windows, stairs, pipes, and furniture. It supports industry foundation classes (IFC) files, and production of 2D floor plans in combination with the Paragraph TechDraw Workbench.



The BIM functionality of FreeCAD is now progressively split into this Arch Workbench, which holds basic architectural tools, and the 🛞 BIM Workbench, which is available from the 👔 Addon Manager. This BIM Workbench adds a new interface layer on top of the Arch tools, with the aim of making the BIM workflow more intuitive and user-friendly. See FreeCAD BIM migration guide@.

The developers of Draft, Arch, and BIM also collaborate with the greater OSArch community , with the ultimate goal of improving building design by using entirely free software.





Contents [hide]

- 1 Introduction
- 2 Tools
 - 2.1 Modification tools
 - 2.2 Utilities
 - 2.3 Preferences
 - 2.4 File formats
- 3 API
- 4 Tutorials

A documentação é também escrita e traduzida pela comunidade

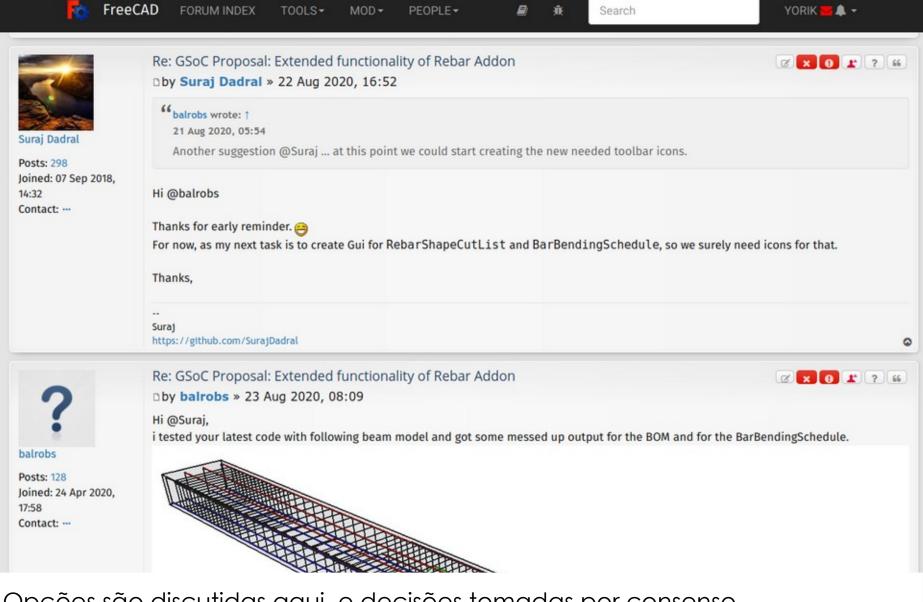




sers				
(Help on using FreeCAD Post here for help on using FreeCAD's graphical user interface (GUI).	16968	135004	Re: Text String Q? by Willem → 02 Dec 2020, 10:30
	Python scripting and macros Need help, or want to share a macro? Post here!	3210	22249	Re: How to judge the type of by freecadizh → 02 Dec 2020, 10:06
	Install / Compile Having trouble installing or compiling FreeCAD? Get help here. Subforum: Packaging	2378	22311	Re: Freecad 0.19 compile prob by wmayer → 02 Dec 2020, 08:22
	Open discussion Have some feature requests, feedback, cool stuff to share, or want to know where FreeCAD is going? This is the place.	4148	45592	Re: unable to get Mesh to rec by Kunda1 → 02 Dec 2020, 10:33
	Announcements & Features Info about new community or project announcements, implemented features, classes, modules or APIs. Might get technical! PLEASE DO NOT POST HELP REQUESTS OR OTHER DISCUSSIONS HERE!	282	4242	Re: New Raytracing Workbench by The_Raytracers → 30 Nov 2020, 18:32
	Users Showcase Show off your FreeCAD projects here!	750	6827	Re: Hollow-body electric guit by blaked → 02 Dec 2020, 10:00
	Job offers Post here if you have a FreeCAD-related job to offer to the FreeCAD community. This can include programming or modeling.	122	634	Re: Please help me fix errors by M4x → 14 Nov 2020, 06:57
	Tutorials and videos	151	1439	Re: Test tutorial for Assembl by jpg87 →

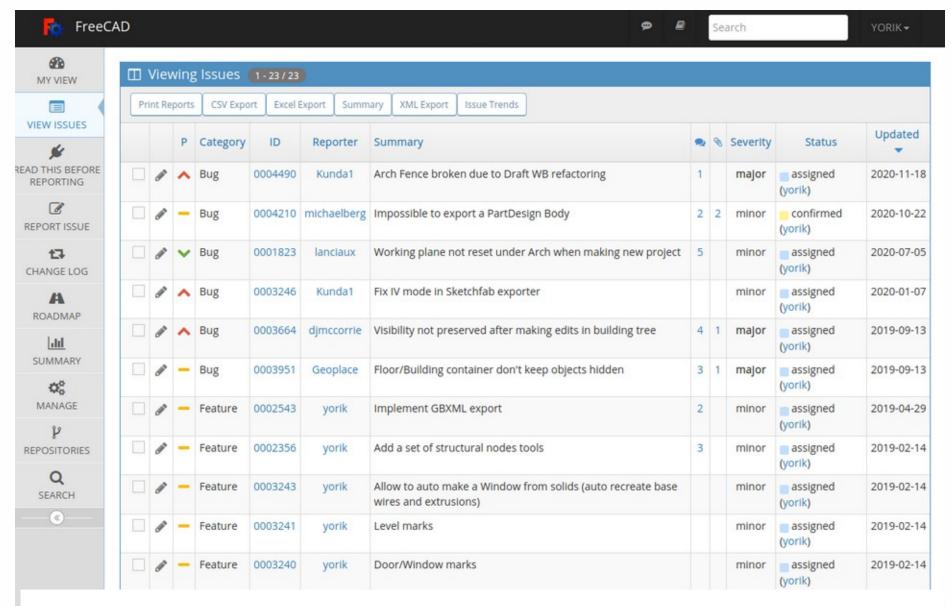
A comunidade gira em torno do forum



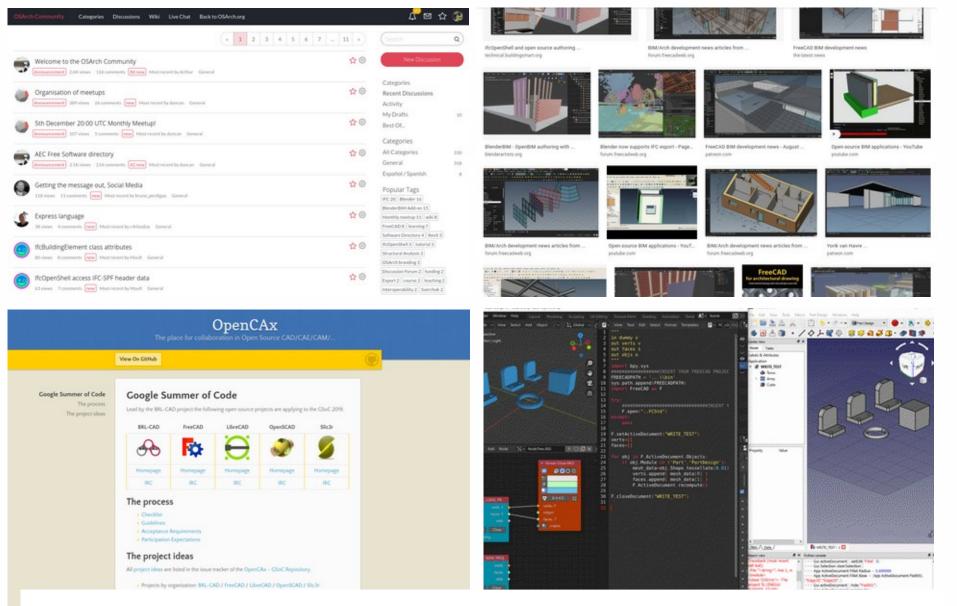


Opções são discutidas aqui, e decisões tomadas por consenso





Bugs e propostas podem ser submetidos e acompanhados por todos



O universo BIM open-source é um grande ecossistema



LINKS ÚTEIS

- FreeCAD: https://freecadweb.org
- Comunidade OSArch: https://osarch.org
- BlenderBIM: https://blenderbim.org
- Yorik van Havre: https://yorik.uncreated.net, @yorikvanhavre