

# BIMBase Parametric Modeling Software

## ➤ Product Introduction

BIMBase parametric modeling software is a purely domestically developed BIM modeling software. Model developers can easily establish and enrich the enterprise's parametric model library, which is convenient for scene modeling and other tasks. In addition, the BIMBase parameterized library building software solves the problem of difficulty in BIM expansion and enables the enterprise BIM department to achieve cross-professional integration.

There are many functional highlights of parametric modeling software that can be introduced:

1. Parametric component library: The software contains a parameterized component library, with its multi-professional model, which is used to manage parameterized components.
2. A variety of model import methods:
  - a) Click Layout from the parametric component library.
  - b) After running the script, the user can perform the layout through the layout tools appearing in the project file.
3. Convenient debugging: In the process of writing the python parameter component model, the user can run the script and view the model effect at any time, without compiling, debugging, and other complicated operations.

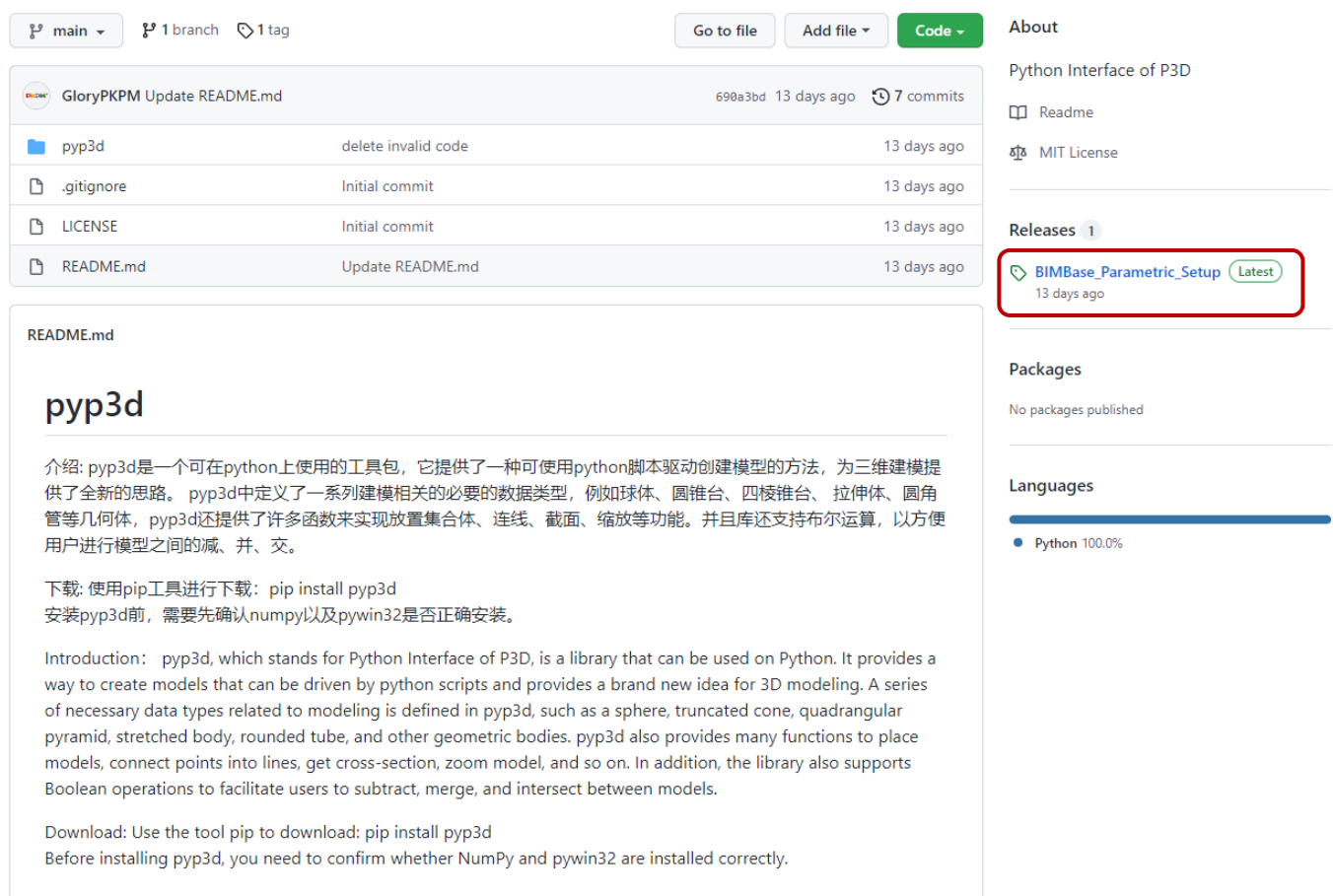
4. Powerful complex modeling capabilities: Parametric components have built-in functions required for modeling, including basic geometry, Boolean tools, rotation, translation, and arrangement tools.

5. Animation effects: parameterized components support animation effects

6. Secondary development support: Python has a large number of third-party libraries, which can assist developers in secondary development.

## ➤ Novice Guide

1. Click on the official software installer on the right side of Github.



The screenshot displays the GitHub repository for 'pyp3d'. At the top, there are navigation buttons for 'Go to file', 'Add file', and 'Code'. Below this is a table of repository files and folders, including 'pyp3d', '.gitignore', 'LICENSE', and 'README.md'. The 'README.md' file is selected, and its content is displayed in the main area. The README includes an introduction to pyp3d, installation instructions, and a brief overview of the library's capabilities. On the right sidebar, there are links to 'About', 'Releases', 'Packages', and 'Languages'. The 'Releases' section is highlighted with a red box, showing the latest release 'BIMBase\_Parametric\_Setup' with a 'Latest' badge.

main 1 branch 1 tag

Go to file Add file Code

GloryPKPM Update README.md 690a3bd 13 days ago 7 commits

File/Folder	Commit Message	Time
pyp3d	delete invalid code	13 days ago
.gitignore	Initial commit	13 days ago
LICENSE	Initial commit	13 days ago
README.md	Update README.md	13 days ago

README.md

### pyp3d

介绍: pyp3d是一个可在python上使用的工具包, 它提供了一种可使用python脚本驱动创建模型的方法, 为三维建模提供了全新的思路。pyp3d中定义了一系列建模相关的必要的数据类型, 例如球体、圆锥台、四棱锥台、拉伸体、圆角管等几何体, pyp3d还提供了许多函数来实现放置集合体、连线、截面、缩放等功能。并且库还支持布尔运算, 以方便用户进行模型之间的减、并、交。

下载: 使用pip工具进行下载: `pip install pyp3d`  
安装pyp3d前, 需要先确认numpy以及pywin32是否正确安装。

Introduction: pyp3d, which stands for Python Interface of P3D, is a library that can be used on Python. It provides a way to create models that can be driven by python scripts and provides a brand new idea for 3D modeling. A series of necessary data types related to modeling is defined in pyp3d, such as a sphere, truncated cone, quadrangular pyramid, stretched body, rounded tube, and other geometric bodies. pyp3d also provides many functions to place models, connect points into lines, get cross-section, zoom model, and so on. In addition, the library also supports Boolean operations to facilitate users to subtract, merge, and intersect between models.

Download: Use the tool pip to download: `pip install pyp3d`  
Before installing pyp3d, you need to confirm whether NumPy and pywin32 are installed correctly.

About

Python Interface of P3D

Readme

MIT License

Releases 1

BIMBase\_Parametric\_Setup Latest 13 days ago

Packages

No packages published

Languages


Python 100.0%

2. Assets contains source code and installation package, click BIMBase\_Parametric\_Setup.exe to install.

[Releases](#) / [BIMBase\\_Parametric](#)


## BIMBase\_Parametric\_Setup


LatestCompare


 GloryPKPM released this 13 days ago · 6 commits to main since this release · BIMBase\_Para... · 9a20b0f


R1.2

▼ Assets 3

 [BIMBase\\_Parametric\\_SetupR1.2.exe](#) 178 MB

 [Source code \(zip\)](#)

 [Source code \(tar.gz\)](#)




3. Check "Software License and Service Agreement" to start the installation.

[Releases](#) / [BIMBase\\_Parametric](#)


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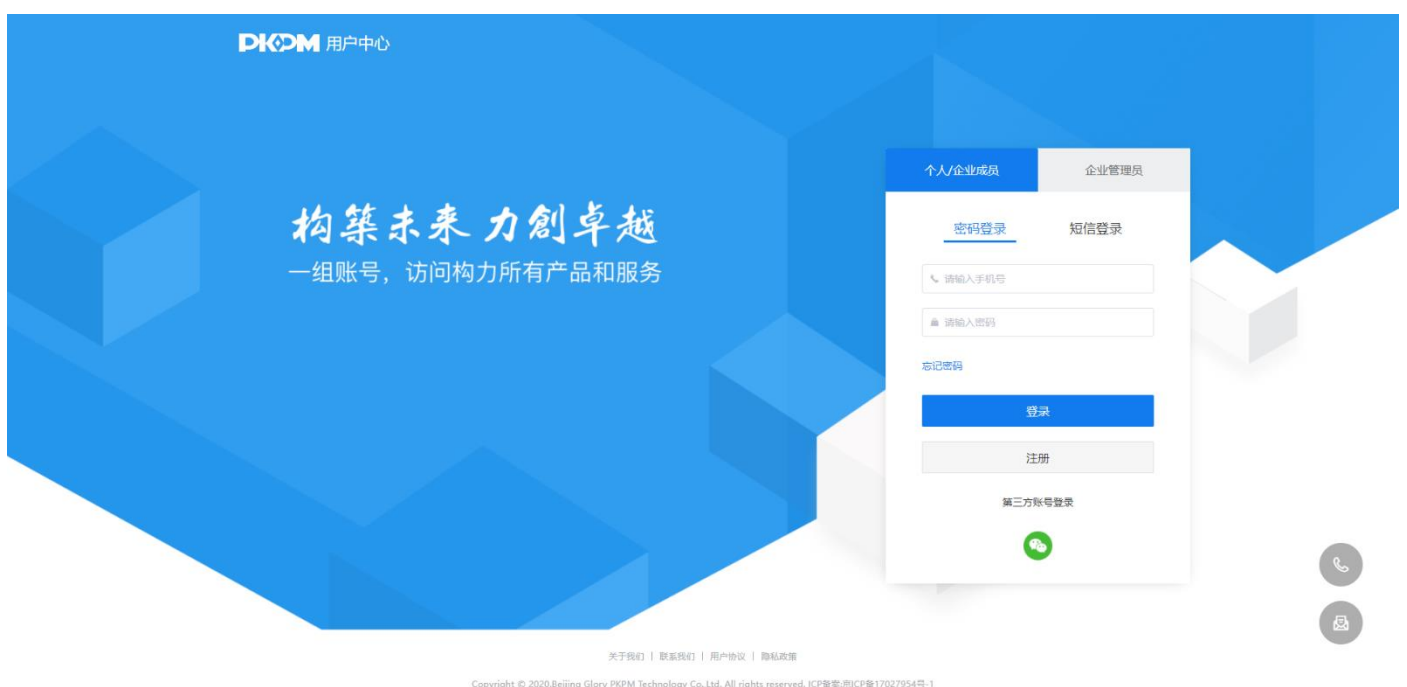
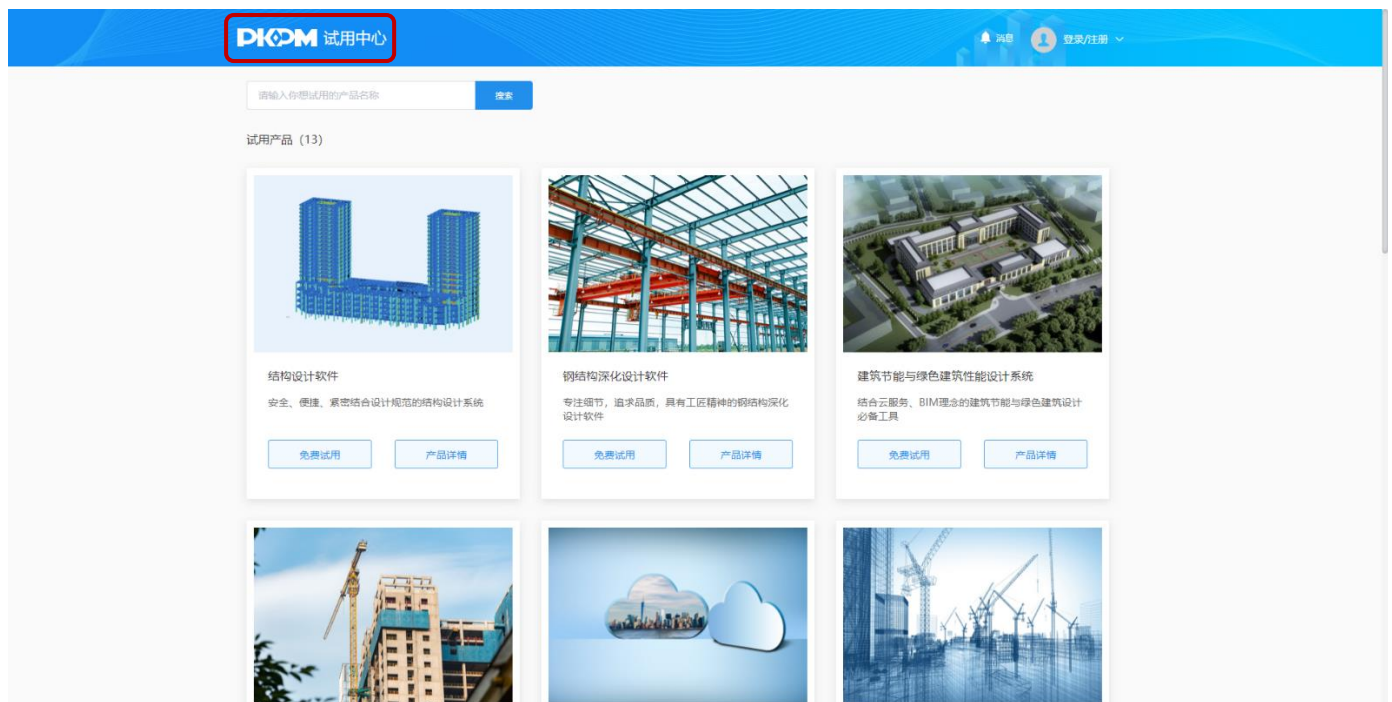
4. Click the login button.



5. If you already have a PKPM account, just log indirectly; if you don't, you need to register on the official website.



6. During the registration process, click the "Free Trial" button of the parametric modeling software under the PKPM Trial Center to obtain a one-month trial period for the account



7. The account has obtained trial permission and can be used.

