

# Python 介绍

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# 什么是 python

- ▶ Python® is a dynamic object-oriented programming language that can be used for many kinds of software development. It offers strong support for integration with other languages and tools, comes with extensive standard libraries, and can be learned in a few days. Many Python programmers report substantial productivity gains and feel the language encourages the development of higher quality, more maintainable code.

# Python 能干啥？

- ▶ **Web and Internet Development**
- ▶ **Database Access**
- ▶ **Desktop GUIs**
- ▶ **Scientific and Numeric**
- ▶ **Network Programming**
- ▶ **Game and 3D Graphics**

# Python 的版本

- ▶ CPython
- ▶ Jython
- ▶ IronPython
- ▶ StacklessPython ( 编写高性能服务器 EVE-online)

# Python 特色

- ▶ 缩进
- ▶ 强大的类型反射
- ▶ 灵活参数传递机制
- ▶ Callable (class,object,function,Lambda)
- ▶ 函数式编程 (lambda Map Reduce Filter Eval)
- ▶ 生成器 yield
- ▶ 装饰器 (AOP)
- ▶ 内置高级数据结构 (list,tuple,dict...)
- ▶ 内置丰富的标准库 (gui、多媒体、网络...)
- ▶ ... 还有很多

# Web 开发

- ▶ WSGI
- ▶ 开发框架简要介绍



# WSGI

- ▶ 是 web 服务器、web 中间件、web 应用程序之间交流的协议
- ▶ 意义：增强 web 组件的重用性，简化 web 应用的部署
- ▶ 简单，漂亮！！

# Web 应用框架基本构成

- ▶ url dispatcher (routes, object publisher, 正则)
- ▶ Template (简单型、强大型、xml 型)
- ▶ Orm (SQLObject、SQLAlchemy)
- ▶ 中间件
- ▶ 其他 (request/response 对象、session、cache、国际化、自动的管理界面、web 单元测试框架、ajax 支持……)