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WIKI MASTER

Django and Flask

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Historical Background of Django and Flask

Initially created as an April Fools' joke, Flask is a minimal Python-based open-source web framework intended to supply the initial building blocks for a more capable web application. Additional functionality is intended to be cherry-picked from third-party extensions or custom-built as necessary.

Named after influential jazz guitarist Django Reinhardt, Django began life as a side-project by two developers working for the Lawrence Journal-World newspaper.

Django was originally conceived as yet another custom CMS in a period where such home-spun frameworks were more common practice, although this one was leveraging the increasingly popular Python language. It was released under a BSD license in 2005, and three years later fell within the remit of the newly-created Django Software Foundation.

Brief description of the Frameworks



Django is an open-source framework for Web development. Django was published in the permission of Berkley Software Distribution (BSD). Also, Django is aiming to develop a database-driven website in a simple, sharp, and agile way. For Django, many components can serve the whole frame with the form of plug.



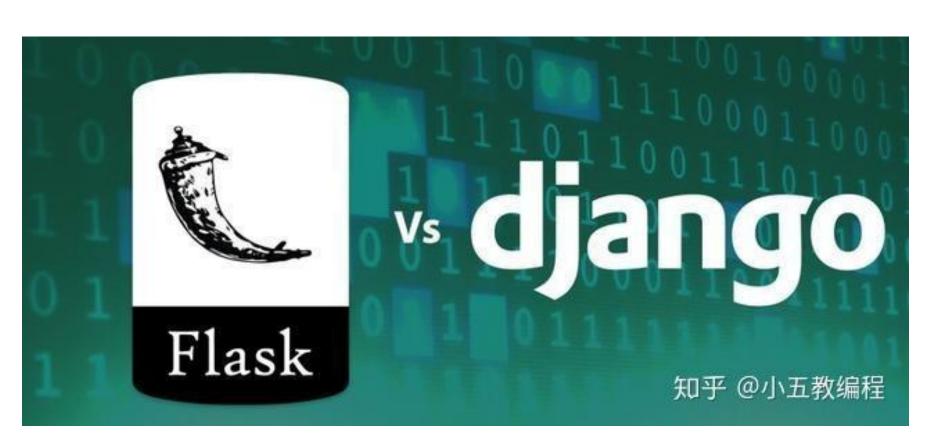
Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. Flask supports extensions that can add application features as if they were implemented in Flask itself.

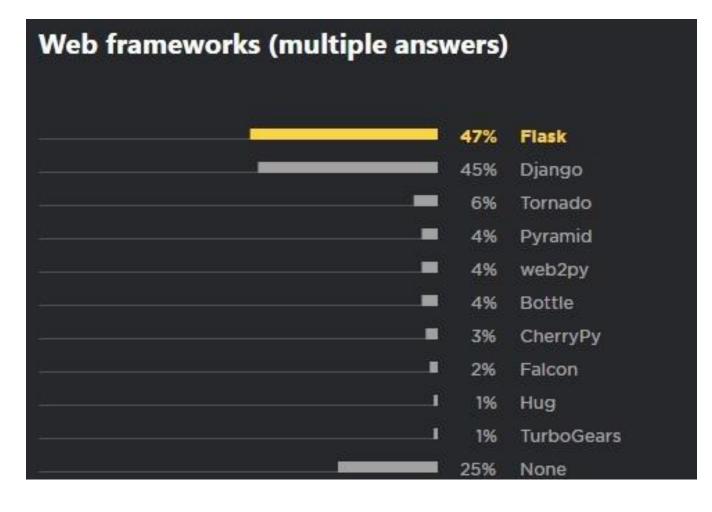
Comparison of both Frameworks

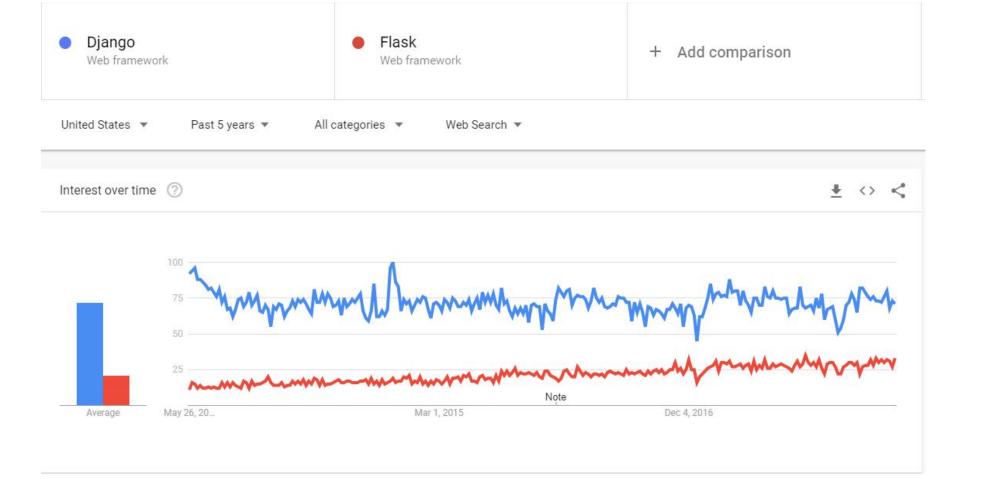
A deeper understanding of the basics is necessary to get started with Flask and Django frameworks. The differences and benefits attached to each framework lie in what kind of project you wish to implement. The main contrasts include:

Flask offers flexibility, simplicity, and fine-grained control. Flask is un-opinionated, letting you decide how you wish to get apps implemented.

Django offers an all-inclusive experience with admin panel, database interfaces, directory structure, and ORM for your web application development.







As mentioned before, Flask is more popular among beginners and those who want to build basic websites easily. On the other hand, Django is more popular among the professionals who have years of experience building robust websites.

Pros and Cons of Django and Flask

	Well-established software with many plugins				
	Admin area out of the box makes dev and production of CMS very easy				
Pros	ORM support				
	Clear and defined MVC organization				
	Highly customizable				
	Forms framework				
	Simple database management				
Cons	Feels like too much software for small projects				
	Template errors fail silently by default				
	A process only handles a single request at a time				
	Deep learning curve				
	Overwhelming features				

Flask's pro	s and cons				
	Extremely flexible				
	Minimalist without sacrificing power				
Pros	Simple to learn and use				
	Routing URLs is easy				
	Small core and easily extensible				
	Not async-friendly				
Cons	Limited support and documentation				
	Lack of database/ORM/forms				
	Truly limited in features				

Examples of Use

1.DjangoBlog https://github.com/liangliangyy/DjangoBlog

(1)Articles, Pages, Categories, Tags(Add, Delete, Edit), edc. Articles and pages support Markdown and highlighting.

(2)Articles support full-text search.

(3)Complete comment feature, include posting reply comment and email notification. Markdown supporting.

(4)Sidebar feature: new articles, most readings, tags, etc.

(5)OAuth Login supported, including Google, GitHub, Facebook, Weibo, QQ.

(6)django-compressor integrated, auto-compressed css, js.

(7)a Wechat official account feature integrated. Now, you can use wechat official account to manage your VPS.

2.microblog https://github.com/miguelgrinberg/microblog

A microblogging web application written in Python and Flask

nttp://blog.miguelgrinberg.com/post/t python flask webapp										
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miguelgrinberg □	hapter 23: Application Program	mming Interfaces (APIs) (v0.23)			ı	atest commi	t e275e8b on 2 Nov 20			
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deployment	Chapter 22: B	7 days ag								
migrations	Chapter 23: A	7 days as								
.flaskenv	Chapter 1: He	6 months as								
.gitattributes	Initial commit	2 years as								
gitignore	Initial commit (v0.0)				2 years ag					
Dockerfile	Chapter 19: E	7 days ac								
E LICENSE	Initial commit	t (v0.0)					2 years a			
Procfile	Chapter 22: B	Sackground Jobs (v0.22)					7 days a			
README.md	Initial commit	t (v0.0)					2 years a			
Vagrantfile	Chapter 17: E	Deployment on Linux (v0.17)					7 days a			
babel.cfg	Chapter 13: I	18n and L10n (v0.13)					7 days a			
■ boot.sh	Chapter 19: D	Chapter 19: Deployment on Docker Containers (v0.19)					7 days as			
config.py	Chapter 22: B	Chapter 22: Background Jobs (v0.22)				7 days as				
microblog.py	Chapter 22: B	Chapter 22: Background Jobs (v0.22)					7 days a			
requirements.txt	Chapter 23: A	application Programming Int	terfaces (APIs) (v0).23)			7 days a			
tests.py	Chapter 16: F	ull-Text Search (v0.16)					7 days a			

Discussion and Conclusion

Django and flask are the most commonly used web backend development frameworks in Python. They are all popular frameworks while they have different design concepts. We can use a metaphor to better understand the difference between the two frameworks:

Flask is like a small and simple toolbox, which only contains the most necessary components. You may need to add more components to complete the task, but you can make sure that all the added components are the most flexible and applicable.

Django is like a huge and complex tool cabinet. If you are familiar with it, you can easily use any of its tools. But for beginners, it may contains too many features to find which is the most needed. For a master, the components it provides may be so rigid that they need to be rewritten.

When you want to use Python to develop the back end of a web page, you need to think about what your requirements are and determine which is the most suitable framework.

Django's characteristics make it suitable for rapid development of web pages, most of the tools you need can be provided. Flask can help you develop more flexible web pages, its simple and effective features leave more possibilities for web development.

For a real expert, in fact, both frameworks are useful and effective.



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