



使用Python自动化运维WebGIS平台

李阳

Why Python

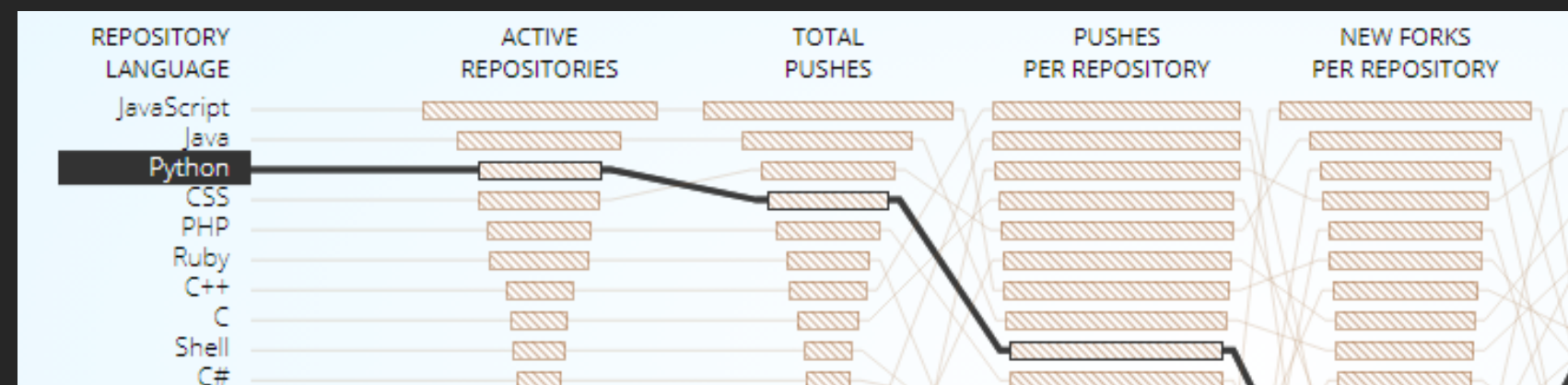
生态环境
免费/开源
简单
跨平台
可扩展性
.....

Apr 2018	Apr 2017	Change	Programming Language
1	1		Java
2	2		C
3	3		C++
4	5	▲	Python
5	4	▼	C#
6	7	▲	Visual Basic .NET
7	6	▼	PHP
8	8		JavaScript
9	-	▲▲	SQL
10	11	▲	Ruby

Worldwide, Apr 2018 compared to a year ago:

Rank	Change	Language	Share	Trend
1		Java	22.62 %	-0.8 %
2		Python	22.05 %	+5.2 %
3	▲▲	Javascript	8.56 %	+0.2 %
4	▼	PHP	8.22 %	-1.8 %
5	▼	C#	7.95 %	-0.7 %
6		C	6.38 %	-1.1 %
7	▲	R	4.26 %	+0.4 %
8	▼	Objective-C	3.7 %	-1.0 %
9		Swift	2.92 %	-0.6 %
10		Matlab	2.31 %	-0.4 %
11		Ruby	1.7 %	-0.4 %
12	▲▲▲	TypeScript	1.58 %	+0.5 %
13		VBA	1.39 %	+0.0 %
14	▼▼	Visual Basic	1.27 %	-0.3 %
15	▼	Scala	1.2 %	-0.0 %
16	▲▲▲▲▲	Kotlin	0.92 %	+0.8 %
17		Go	0.84 %	+0.3 %
18	▼▼	Perl	0.78 %	-0.1 %
19	▼	lua	0.37 %	-0.2 %
20	▲	Rust	0.36 %	+0.0 %
21	▼	Haskell	0.31 %	-0.0 %
22	▼▼▼	Delphi	0.29 %	-0.1 %

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Why自动化

降低成本
避免重复劳动
提高测试效率
更可靠
高可用性
.....



Deploy 部署

Operate 操作

部署
(HA、DA)

组织管理

软件配置

软件安装

内容管理

数据分析

Deploy 部署

Enterprise
Builder



基础环境

Cloud Builder CLI &
Cloud Formation



Cloud Builder &
PowerShell DSC



云环境




Chef cookbooks for
ArcGIS

























任何环境

使你的GIS环境自动化并且可编程

Operate 操作

 examples
 portalpy.html
 portalpy.py

 backup.py
 convertcachestorageformat.py
 createcacheschema.py
 createservice.py
 deletecache.py
 managecachetiles.py
 manageservice.py
 managesite.py
 restore.py
 server\$can.py

 allowconnection.bat
 backupdatastore.bat
 changebackuplocation.bat
 changedatastoremode.bat
 changedbproperties.bat
 changeloglocation.bat
 changenosqlslocation.bat
 changepassword.bat
 changestaginglocation.bat
 configurebackuplocation.bat
 configuredatastore.bat
 configureserviceaccount.bat
 deletebackup.bat



ArcGIS
Server



ArcGIS
Data Store

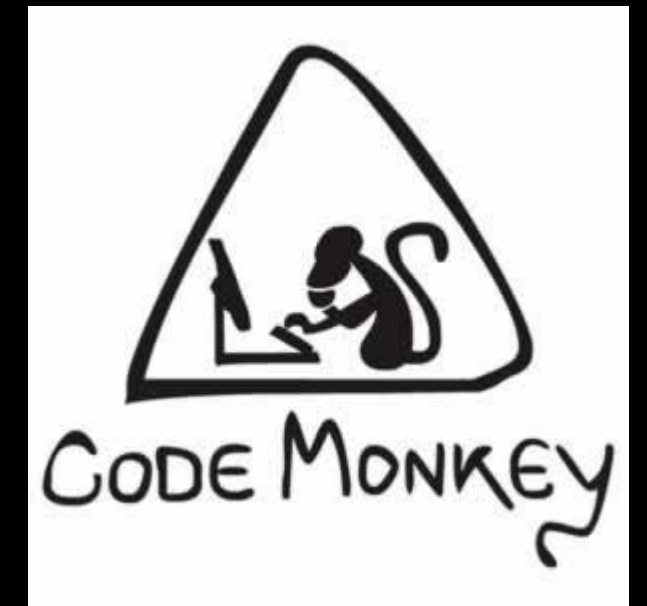
使你的GIS环境自动化并且可编程

Operate 操作

Automating & Scripting

资料分享

1. 安装目录tools下
2. <https://developers.arcgis.com/python/>
3. <https://developers.arcgis.com/rest/>
4. <https://github.com/Esri/arcgis-python-api>



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- changenosqlslocation.bat
- changepassword.bat
- changestaginglocation.bat
- configurebackuplocation.bat
- configuredatastore.bat
- configureserviceaccount.bat
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名称

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- examples
- portalpy.html
- portalpy.py





谢谢!



***THE
SCIENCE
OF
WHERE***