一、联系出品方





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二、搭建机器学习开发环境

Linux 环境安装

我们使用如下表格软件搭建 Linux 的机器学习环境。

编号	软件	备注
1	VMware-workstation-full-14.0.0.24051	虚拟机
2	ubuntu-17.10-server-amd64	Linux 版本
3	Xshe11–5. 0. 1339	SSH 客户端
4	Python 3.6.3	Python

虚拟机安装

为方便教学和研究,我们使用 VMware Workstation 虚拟机,读者可从网络下载。在工作中,常用刀片服务器、云服务器等。

安装步骤如下:

VMware Workstation Pro	の安装
14	欢迎使用 VMware Workstation Pro 安装向导
WORKSTATION PRO	安装向导将在您计算机上安装 VMware Workstation Pro。 单击"下一步"继续,或单击"取消"退出安装向导。
	版权所有 1998-2017 VMware, Inc. 保留所有权利。本产品 受美国和国际版权及知识产权法保护。VMware 产品获得 以下网站中列出的一项或多项专利:
vmware	http://www.vmware.com/go/patents-cn
	下一步(N) 取消
击"下一步",进入安装。	
붱 VMware Workstation Pro	
影 VMware Workstation Pro 最终用户许可协议 请仔细阅读以下许可协议	o 安装
VMware Workstation Pro 最终用户许可协议 请仔细阅读以下许可协议	o g装
VMware Workstation Pro 最终用户许可协议 请仔细阅读以下许可协议 VMW 请注意,在本软件 款,使用本软件都 束。	● 安装 ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●
VMware Workstation Pro 最终用户许可协议 请仔细阅读以下许可协议 请仔细阅读以下许可协议 VMW 请注意,在本软件 款,使用本软件都 束。 重要信息,请仔细 件,您(自然人或说 ("本协议")的约束	> 安装 ○ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●

勾选"我接受许可协议中的条款",点击"下一步"。

打印图

上一步间下一步回

取消

VMware Workstation Pro 安装	
自定义安装	
选择安装目标及任何其他功能。	
安装位置: C:\Program Files (x86)\VMware\VMware Workstation\	更改…
增强型键盘驱动程序(需要重新引导以使用此功能(E) 此功能要求主机驱动器上具有 10MB 空间。	
	M)

点击"更改",可以更改虚拟机的安装位置,点击"下一步"。

用户体验设置	
编辑默认设置以提高您的用户体验	<u>à</u> •
 ✓ 启动时检查产品更新(C) 在 VMware Workstation Pro 启动 新版本。 ✓ 加入 VMware 客户体验改进计划 	加讨,检查应用程序和已安装软件组件是否有 ;)())
VMware客户体验提升 关信息,以帮助VMwa 题、并向您建议如何以	计划 (CEIP) 将向 VMware 提供相 ▲ are 改进产品和服务、解决问 ■ 以最佳方式部署和使用我们的产 → VMware 会定期收集和您所
品。作为 CEIP 的一部分 持有的 VMware 密钥相	关的使用 VMware 产品和服务 •
品。作为 CEIP 的一部分 持有的 VMware 密钥相 <u>了解更多信息</u>	关的使用 VMware 产品和服务 👻

根据自己爱好,设置用户体验,点击"下一步"。

岁 VMware Workstation Pro 安装		l		X
快捷方式 选择您要放入系统的快捷方式。				
在以下位置创建 VMware Workstation F 「桌面(D) 「开始菜单程序文件夹(S)	Pro 的快捷方式:			
	上一步個	∇—歩(N)	取消	
快捷方式建议都勾选,点击"下一步"	0			
是捷方式建议都勾选,点击"下一步"				X
 快捷方式建议都勾选,点击"下一步" 送 VMware Workstation Pro 安装 已准备好安装 VMware Workstation 	n Pro			×
e捷方式建议都勾选,点击"下一步" 岁 VMware Workstation Pro 安装 已准备好安装 VMware Workstation 单击"安装"开始安装。单击"上一步"查 导。	。 n Pro	Q置。单击"耳	口 [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	x 1)
e.捷方式建议都勾选,点击"下一步" <mark> 變 VMware Workstation Pro 安装</mark> 已准备好安装 VMware Workstation 単击"安装"开始安装。单击"上一步" 导。	。 n Pro E看或更改任何安装i	受置。单击"耳	口 1 1 1 1 1 1 1 1 1 1 1 1 1	×
快捷方式建议都勾选,点击"下一步" <mark> 「「」VMware Workstation Pro 安装</mark> 已准备好安装 VMware Workstation 単击"安装"开始安装。単击"上一步"登 导。	。 n Pro 音或更改任何安装i	受置。单击"耳	 I	×
快捷方式建议都勾选,点击"下一步" 岁 VMware Workstation Pro 安装 已准备好安装 VMware Workstation 单击"安装"开始安装。单击"上一步"管 导。	。 n Pro	₽盂。单击"耳	口 取消"退出向	

至此,安装设置以及完成,点击"安装"。



出现此画面,表示已经安装完成。可以点击桌面、菜单中的快捷方式打开虚拟机。

Ubuntu 安装

安装完虚拟机后,我们需要根据自己的需求安装相应的操作系统,在此我们安装 ubuntu-17.10-server-amd64。

首选需要下载系统镜像,地址: https://www.ubuntu.com/download/server。

安装步骤如下:



点击"创建新的虚拟机"。或点击"文件",选择"新建虚拟机"。或使用快捷键 "Ctrl+N"。

新建虚拟机向导	
	欢迎使用新建虚拟机向导
VMWARE 14 WORKSTATION PRO	您希望使用什么类型的配置?
	◎ 自定义(高级)(C) 创建带有 SCSI 控制器类型、虚拟磁盘类型 以及与旧版 VMware 产品兼容性等高级选项 的虚拟机。
帮助	<上一步(B) 下一步(N) > 取消

选择"典型", 点击"下一步"。

源:			
*** *装程序光盘(D):			
鷂 DVD RW 驱动器 (E:)	*		
「装柱序尤盆映像又件(150)(凹):		() () ()	
) 口控测到 Ubuntu 64 位 Server 17 10。	1311	8992(D)	
该操作系统将使用简易安装。(这是什么?)			
后安装操作系统(<u>5</u>)。			
J建的虚拟机将包含一个空白硬盘。			

选择"安装程序光盘镜像文件",点击"浏览",选择 ubuntu-17.10-server-amd64 的存放路径,点击"下一步"。

	- 4-12-1	
新建虚拟机向导		
简易安装信息 这用于安	X Ubuntu 64 位。	
个性化 Linux		
全名(E):	Ubuntu-1	
用户名(U):	manqingxing	
密码(P):	•••••	
确认(<u>C</u>):	•••••	
₹₽₿ħ	< +	町省
(WICH)		47.71

为 Linux 取名,并设置用户名和密码,一定牢记,点击"下一步"。

新建虚拟机向导		X	
命名虚拟机 您希望该虚拟机使用作	十么名称?		
虚拟机名称(⊻):			
Ubuntu64-1			
位 置(L) :			
D:\Soft\VMware-Workstatic	n-Machines	浏览(<u>R</u>)	
	< 上一步(B) 下一步	·(N) > 取消	

设置此虚拟机名称,点击"浏览"可更改安装位置,点击"下一步"。

X

所建虚拟机向导		
指定磁盘容里 磁盘大小为多少?		
虚拟机的硬盘作为一个或多 向虚拟机中添加应用程序、]	个文件存储在主机的物理 文件和数据而逐渐变大。	聪 盘中。这些文件最初很小,随着/
最大磁盘大小 (GB)(<u>S</u>):	20.0 🚔	
针对 Ubuntu 64 位 的建议;	大小: 20 GB	
能。		

最大磁盘大小使用建议值即可,点击"下一步"。

i使用下列设置创	建虚拟机:	
名称:	Ubuntu64-1	
位置:	D:\Soft\VMware-Workstation-Machines	
版本:	Workstation 14.x	
操作系统:	Ubuntu 64 位	
硬盘:	20 GB, 拆分	
内存:	1024 MB	
网络适配器:	NAT	
其他设备:	CD/DVD, USB 控制器, 打印机, 声卡	
自定义硬件	:(<u>C</u>)	
创建后开启此度	ŧ以机(₽)	

勾选"创建后开启此虚拟机",点击"完成"开始安装。

C 111			
Dountuo4-1 - VMWare Work			
又1年止) 病物(E) 章君(V) 虚			
	× 🕜 主页 × 🗗 Ubuntu64-1	×	
4、住口心健人内容进行搜索			
 ■ 契約计算机 ① Ubuntu64-1 ① 共享的虚拟机 			
		Loading additional components	
		14%	
		Retrieving jfsutils-udeb	

安装过程如图,安装完成后自动启动。



安装完成后出现此画面,输入刚才设置的用户名和密码即可进入。



安装 SSH 服务,在工作中常使用 SSH 服务远程控制服务器。

命令:

manqingxing@ubuntu:~\$ sudo apt-get install openssh-server
.....
当询问是否安装时, 输入"y"即可。
.....



XShell 安装

在工作中,常用 SSH 客户端有 secureCRT、XShell 等,我们使用 Shell,可从网络下

载。

XShell 按照步骤如下:



勾选"我接受许可证中的条款",点击"下一步"。

客户信息	
输入您的信息。	XSHELL 5
请输入您的名字和所在公司的名称。	
用户名(0):	
微软用户	
公司名称(C):	
微软用户	
allShield	
	<上一步 (B) 下一步 (N) > 取消
实际情况输入用户名、公司名称,	点击"下一步"。
实际情况输入用户名、公司名称,,	点击"下一步"。
音实际情况输入用户名、公司名称,, mell 5 Evaluation	点击"下一步"。
会际情况输入用户名、公司名称,, ell 5 Evaluation 选择目的地位置 选择安装程序在其中安装文件的文件夹。	点击"下一步"。
实际情况输入用户名、公司名称,, ell 5 Evaluation 选择目的地位置 选择安装程序在其中安装文件的文件夹。 安装程序将在以下文件夹中安装 Xshell	点击"下一步"。
ell 5 Evaluation 法择目的地位置 选择安装程序在其中安装文件的文件夹。 安装程序将在以下文件夹中安装 Xshell 要安装到此文件夹,请单击"下一步"。 然后选择其它文件夹。	点击"下一步"。
会际情况输入用户名、公司名称, mell 5 Evaluation 法择目的地位置 选择安装程序在其中安装文件的文件夹。 安装程序将在以下文件夹中安装 Xshell 要安装到此文件夹,请单击"下一步"。 然后选择其它文件夹。	点击"下一步"。 XSHELL 5 5 Evaluation。 要安装到其它文件夹,请单击"浏览",
会际情况输入用户名、公司名称, mell 5 Evaluation 法择目的地位置 选择安装程序在其中安装文件的文件夹。 安装程序将在以下文件夹中安装 Xshell 要安装到此文件夹,请单击"下一步"。 然后选择其它文件夹。	点击"下一步"。 XSHELL 5 5 Evaluation。 要安装到其它文件夹,请单击"浏览",
ell 5 Evaluation 法择目的地位置 选择安装程序在其中安装文件的文件夹。 安装程序将在以下文件夹中安装 Xshell 要安装到此文件夹,请单击"下一步"。 然后选择其它文件夹。	点击"下一步"。
allShield	点击"下一步"。 XSHELL 5 5 Evaluation。 要安装到其它文件夹,请单击"浏览", shell 5\

点击"浏览"可更改安装目录,点击"下一步"。

ĺ

Kshell 5 Evaluation	
选择程序文件夹 请选择程序文件夹。	XSHELL 5
安装程序会将程序图标添加到以下 名称,或从"现有文件夹"列表中;	列元的"程序文件夹"中。您可以输入新的文件夹 选择一个。单击"下一步"以继续。
程序文件关键: Kshell 5	
现有文件夹 (M): AbleSky Accessories	
Administrative Tools Adobe Games	=
HP Maintenance SecureCRT 8.0 Startup	-
nstallShield	
	< 上一步 (B) 下一步 (B) > 取消
话击"下一步"。	
shell 5 Evaluation	
选择语言 选择的用户界面语言。	XSHELL 5
请选择该程序的语言。您可以在以	后更改语言,在工具菜单中。
Chinese (Simplified)	•
nstallShield	

选择中文简体,点击"安装"。

Ì

shell 5 Evaluation	×
安装状态	XSHELL 5
Xshell 5 Evaluation 🕏	z装程序正在执行所请求的操作。
正在创建快捷方式	
stallShield ————	取消
在安装。	
shell 5 Evaluation	InstallShield Wizard 完成
	安装程序已完成在计算机中安装 Xshell 5 Evaluation。
	🔽 Xshell 5 Evaluation)运行
	(≤ 上一步 (B)

出现此画面表示已经按照完成,点击"完成"。

✓ 会话				
約新建 ▼ 🗐 🐰	₽ ₽ × ₽	属性 🔓 🗃	-	
所有会新建				(d)
名称 🔺	主机	端口 协	议 用户名	说明
☑ 启动时显示此对话框(3	5)			〕〔 关闭
启动 Shell 时会出现」 建会话属性	比画面,点击右上	二角"新建"。		8
类别(C): □ 连接 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	连接			
□ 用 广 牙 D 短 距 □ 登录提示符 □ 登录脚本	常规 名称(N):	Ubuntu64-1	ĝ	
□-SSH □-安全性	协议(P):	SSH	*	51 C
· 隧道 SETD	主机(H):	192.168.115.128	C.	
TELNET	端口号(0):	22		
	识明(D):			
- 保持活动状态 □ 终端	重新连接			
··· 键盘 	□ 连接异常关	闭时自动重新连接(A	N)	
AT ST 1	间隔(V):	0	吵 限制(L): 0	🔶 分钟
──高级 □─ 外观				
 ──高级 ──一寄口 ──一寄口 ──高级 ──田忠踪 ──日志记录 ──文件传輸 	TCP选顶 一使用Nagle算	法(U)		
 □ · 高级 □ · 窗口 □ · 高级 □ · 品级 □ · 品级 □ · 日志记录 □ · 文件传输 □ · X/YMODEM □ · ZMODEM 	TCP选项 一使用Nagle算	法(U)		

输入虚拟机名词、主机地址(使用 ip a 查看的 Linux 的地址),点击"确定"。

🎸 会话							x
※1新建 → 🛃 👗 🖺 🔂	🗙 🔜 属性		1	+			Q
所有会话						62	¢
名称 ▲	主机	端口	协议	用户名	说明		
Ubuntu64-1	192.168.11	22	SSH				
☑ 启动时显示此对话框(S)				连接(C)		关闭	
也中一台虚拟机,点击"连接"。	2		\bigcirc				

未知主机密钥
192.168.115.128 (端口: 22)的主机密钥未在本地主机密钥数据库中注册。 下次若需身份验证此主机的话须保存主机密钥。
主机密钥指纹 (MD5 校验和): ssh-rsa 2048 bb:04:23:53:b1:cf:41:e3:ef:a1:3f:22:42:b6:69:05
接受此主机密钥吗?
一次性接受(2) 接受并保存(5) 取消

点击"接受并保存"。

远程主机: 服务器类型:	192.168.115.128:22 (Ubuntu64- SSH2, OpenSSH_7.5p1 Ubuntu-
请输入登录的用	月户名(E):
mangingxing	
🔽 记住用户名	(R)

输入虚拟机的用户名,勾选"记住用户名", 点击"确定"。

卫生生工业	102 160 115 120-22 (Ubuntu64 1)
观马方.	192.108.115.128:22 (Obuntu64-1)
登來者: 四冬哭 来 回。	CCUD OF THE TEST UNDER TO
服穷畚尖型:	SSH2, OpenSSH_7.5p1 Obuntu-10
请在下面选择恰当的	的身份验证方法并提供登录所需的信息。
Password(P)	
密码(<u>W</u>):	•••••
O Public Key(U)	
用户密钥(K):	▼ 浏览回… ▼
密码(田):	
C Keyboard Interactiv	e(I)
使用键盘输入用户	身份验证。
(2) 52 仕家辺の)	
K1±2549(K);	
	明正 拟泪
入密码,勾选"记住	:密码",点击"确定"。
入密码,勾选"记伯 puntu6+1-manqingxing@ubuntu~-xkhels #8	ː密码",点击"确定"。 ◎ #₩₩ ◎ · A · I © Ø ∷@ 自 D · ■ · © ₽
入密码, 勾选"记伯 buntu54-1 - manqingsing@ubuntur ~ - Xshell 5 feld 編集D 雪型の 耳の 透映 愛口 マング 「見つ」 夜 「 雪・ 副・ solv/192.168.115.12822 変動に自動を、 点生文質的能学が起。	≊密码",点击"确定"。 ∞ ^{##dd} ጭ A·1 € Ø ≋ & m ⊡ · ® ₽
入密码, 勾选 "记伯 puntu64-1 - manqingxing@ubuntur ~ - Xshell 5 (#0	ː密码",点击"确定"。 ◎ ##₩ ◎· A· I © Ø ∷ 8 自 @· ■· ◎ ₽
入密码, 勾选 "记伯 Duntu64-1-manqingxing@ubuntur - Xshell 5 件後 樂儀 章章心 耳口 送琴卡@ 智口 ●・ ●・	ː密码",点击"确定"。 ◎ ##db ③· A· I © ♥ I: 8 自 @· II· ◎ ♥
入密码, 勾选 "记伯 buntu64-1 - manqingxing@ubuntu: ~ - Xshell 5 (中の 編印 音句) 耳口 法明书(四 會句) (日)	:密码",点击"确定"。 ◎ A · ● Ø :: @ @ @ · E · ② ₽ . All rights reserved.
入密码, 勾选"记伯 Dumtu64-1-manqingxing@ubuntur - xshell 5 件份 樂城回 章章心 耳口 透现卡回 10 中心 10 短天的 10 医现卡的 10 中心 10 短天的 10 医现卡的 10 10 f (mild 133) 11 5 (mild 133) 11 5 (mild 133) 12 ft (c) 2022 2017 NetSarang Computer, Im - help' to learn how to use Xshell prompt. - Js exting to 192,168,115,128:22 exting to 192,168,115,128:22	:密码",点击"确定"。 ● ₩₩ ● A· S S I: B = D· E· O P • Al rights reserved.
入密码, 勾选 "记伯 buntu64-1 - manqingxing@ubuntu: ~ - Xshell 5 (中の 編集) 音(の 耳の 法界中(の 配) ー () () () () () () () () () (密码",点击"确定"。 ◎ 和WH ● A • ● Ø ℃ & 自 回 • 目 • ● ♥ . All rights reserved.
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入密码, 勾选 "记d Duntu64:1-manqingxing@ubuntuxshells #40 樂編() 章章() 耳() 送來年() @[@() [2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	密码", 点击"确定"。 ◎ #### ③· A· I @ Ø I :: 0 自 @ · ■· ◎ ♥ . All rights reserved.
入密码, 勾选 "记伯 buntu64-1 - manqingxing@ubuntus Xihell 5 fel	密码",点击"确定"。 ^{MO WENDU} ^{ON WENDU All rights reserved. neric x86_64) com}
入密码, 勾选 "记伯 Duntu641-mangingxing@ubuntusXshells #40 編編 章章() 耳口 语项卡段 @1 @- @ @ @ @ @ @ @ @ sohy/192.166.115.128:22 要表加曲前全話 . 是主友的的影响我已 Ubuntu641 * * 11 5 (mild 1339) right (c) 2602-2017 NetSarang Computer, In "help' to learn how to use Xshell prompt. -15 ecting to 122.169.115.128:22 ection established. compe to Uocal Shell, press 'Ctrl+Alt+]'. sage to Uocal Shell, press 'Ctrl+Alt+]'. sage to Uocal Shell, press 'Ctrl+Alt+]'. anagenet: https://landscape.canonical anagenet: https://landscape.canonical upport: https://landscape.canonical u	密码",点击"确定"。 ^{◎ 和助曲} [●] A · I [●] I [©] I [©] □ [□] □ [□] · □ · □ · □ [●] □ · □ · □ [●] □ · □ · □ [●] □ · □ · □ · □ · □ · □ · □ · □ · □ · □

出现上图, 表示连接成功。

Python 安装与第一个 Python 程序

ubuntu-17.10-server-amd64 默认自带了 Python,可使用命令 python 查看。

```
manqingxing@ubuntu:~$ python
The program 'python' can be found in the following packages:
 * python-minimal
 * python3
Try: sudo apt install <selected package>
manqingxing@ubuntu:~$ python3
Python 3.6.3 (default, Oct 3 2017, 21:45:48)
[GCC 7.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information
>>> print ('hello word!') #这是一行 python 程序, 功能是打印出 hello word!
hello word!
```

Windows 环境安装

编号	软件	备注
1	Python 3.6.4	Python
2	jdk-9.0.1_windows-x64_bin	JDK
3	eclipse-jee-oxygen-2-win32-x86_64	IDE
4	PyDev	IDE 插件
5	MLDemos-0.5.2-win	学习小工具

我们使用如下表格软件搭建 Windows 的机器学习环境。

Python 安装

下载地址: https://www.python.org/downloads/。 安装步骤如下:



点击"Install Now",进入安装,记住安装路径。

😩 Python 3.6.4 (32-bit) S	etup	
	Setup Progress	
ę	Installing: Python 3.6.4 Executables (32-bit)	
python		Cancel
windows		Cancel

正在安装。



Windows 环境下需环境变量,具体步骤如下:



右击"计算机",选择"属性"。注意:不同 Windows 版本图标名词不同,一般有 "我的电脑"、"这台电脑"。

	看(V) ⊥具(I) 帮助(H)
面板主页	查看有关计算机的基本信息
管理器	系统属性
设置	计算机名 硬件 高级 系统保护 远程
充保护	要讲行士多教重改,你必须作为管理局登录。
级系统设置	性能
	视觉效果,处理器计划,内存使用,以及虚拟内存
	设置 (S)
	用/Telia文件 与您登录有关的桌面设置
	(25年 (7))
	启动和故障恢复 りつい 多約年初、多約年時初週ば信息
	设置 (I)
	环境变里 (2)
Į	
	PT THE MERICAN
"高级系统	设置",选择"高级"选项卡,再点击"环境变量"
变量	
dministrat	or 的用户变量 (U)
变量	值
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp
	新建 (M) [编辑 (E)] 删除 (D)
系统变量(S)	
< <p> 统变量 (S) 空母</p>	
统变量 (S) 变量 。 。 。	值 加
 · (会) · ((e) · ((e)	值 Windows_NT
系统变里(S) 变里 OS Path PATHFXT	值 Windows_NT C:\ProgramData\Oracle\Java\java COM: EXE: BAT: CMD: VBS: VBF:

PROCESSOR AR

AMD64

新建(@)...

在下方的"系统变量"文本线框中点击"Path"栏目。

[编辑(L)...

确定

删除(L)

取消

赤母とのい	P 11
支重者の	rath
变 里 值 (⊻):	.a\Local\Programs\Python\Python36-32

在变量值最后添加 Python 安装路径,点击"确定"。注意:一般复制到最后,用英文 分号与其他变量值隔开,如:

;C:\Users\Administrator\AppData\Local\Programs\Python\Python36-32

₽ 查看更多结果	
CMD × 关机 +	
CRT_百度搜 Ubuntu64位	
然后打开 CMD 命令窗口。	
■ 管理员: C:\Windows\system32\cmd.exe - python Microsoft Windows [版本 6.1.7601] 版权所有 <c> 2009 Microsoft Corporation。保留所有权利。 C:\Users\Administrator>python Python 3.6.4 <v3.6.4:d48eceb, 06:04:45="" 19="" 2017,="" dec=""> [MSC v.1900 32 bit on win32 Type "help", "copyright", "credits" or "license" for more information. >>></v3.6.4:d48eceb,></c>	tel)]

输入命令 python, 出现上图 python 版本号和 ">>>"提示符表示安装成功。

JDK 安装

JDK 是 Eclipse 运行必备软件。下载地址:

http://www.oracle.com/technetwork/java/javase/downloads/index.html

安装步骤如下:

닗 Java(TM) SE Development Kit 9.0.1 (64-bit) - 安装	程序 X
欢迎使用 Java SE 开发工具包 9.0.1 的安装向导	
本向导将指导您完成 Java SE 开发工具包 9.0.1 的安装过	程。
Java Mission Control 分析和诊断工具套件现在作为 JDK 的	〕一部分提供。
	下一步(1) > 取消
k 面	安装 X
E Java"	
从下面的列表中选择要安装的可选功能。您可以在安装, 实用程序更改所选择的功能	后使用控制面板中的"添加/删除程序"
□ • <mark>开发工具</mark> □ • 源代码 □ • 公共 JRE	功能说明 Java(TM) SE Development Kit 9.0.1 (64-bit), 包括 JavaFX SDK, 一个专用 JRE 以及 Java Mission Control 工具套件。它要求硬盘 驱动器上有 180MB 空间。
安装到: C:\Program Files\Java\jdk-9.0.1\	更改(C)
(<上一步(B)	下一步(N) > 取消

点击"更改"可以更改安装目录,一般默认,点击"下一步"。

闄 Java(TN	1) SE Development Kit 9.0.1 (64-bit) - 进度	
S)		
状态:	正在更新组件注册	
正在安装。		
Java 安装 -	定制安装	
S)	ava" GRACLE	
	定制安装	
单击	"更改" 以将 Java 安装到其他文件夹。	
安装到 C:\Pro	비: ogram Files\Java\jre-9.0.1	更改(C)
₽	目用浏览器中的 Java 内容	
		下一步(N) >

安装 JDK 需要按照 JRE, 点击"更改"可更改安装目录, 一般默认, 点击"下一步"。

Java 安装 - 进度	
状态: 安装 Java	
ATMs, Smartcards, POS Terminals, Blu-ray Bet Top 3 BIIIO Set Top 3 BIIIO Autom 3 BIIIO Set Top 3 BIIIO Autom 3 BIIIO Autom 3 BIIIO Set Top 3 BIIIO	Players, PCs rs Switches Devices and Lottery Controls
正在安装。	
谩 Java(TM) SE Development Kit 9.0.1 (64-bit) - 完成	×
Java(TM) SE Development Kit 9.0.1 (64-bit) 已成功安装	
单击"后续步骤"访问教程, API 文档, 开发人员指南, 发布说明及更多内 开始使用 JDK。]容, 帮助您
后续步骤(N)	
关闭(C)	

安装成功,点击"关闭"。

Eclipse 安装

Eclipse 属于一种 IDE (Integrated Development Environment,集成开发环境,可统 一管理和使用开发相关的软件)。下载地址:

https://www.eclipse.org/downloads/eclipse-packages/

Eclipse 无需安装,加压缩后即可使用。

e lect a dire Eclipse uses	tory as workspace the workspace directory to store its preferences and dev	velopment artifacts.
<u>N</u> orkspace:	D:\eclipse-workspace	▼ <u>B</u> rowse
✓ Use this a	s the default and do not ask again	

第一次启动,会让用户选择工作空间,点击"Browse"选择即可。勾选"Use this as the default and do not ask again",即可设置默认工作空间。点击"Launch"。

	gate Search	<u>Project Run Window H</u> elp			
- Welcom	ie 🛛				
*		Eclipse Java EE IDE for Web Developers			Workbench
	•	Review IDE configuration settings Review the IDE's most fiercely contested preferences		Overview Get an overview of the features	
	0	Create a new Java EE Web Project Create a new Eclipse project for Java EE Web development		Tutorials Go through tutorials	
	0	Create a new Javascript project Create a new Eclipse project for Javascript development	1	Samples Try out the samples	
	•>	Checkout projects from Git Checkout Eclipse projects hosted in a Git repository		What's New Find out what is new	
	*	Import existing projects Import existing Eclipse projects from the filesystem or archive			
		Launch the Eclipse Marketplace Enhance your IDE with additional plugins and install your Marketplace favorites			

每次打开会出现欢迎页,不勾选右下角的"Always show Welcome at start up"即可。

PyDev 安装

💽 eclipse-workspace - Eclipse	and in the second second second
<u>File Edit Navigate Search Project Run Window</u>	Help
🔁 • 🗟 🐚 🕸 • O • 🎴 • 💁 • 🐻 •	🚳 Welcome 🙌 🍡 🤋
Project Explorer 🛛 📄 😫 😵 🤝 🖻 🗖	 Help Contents Search Show Contextual Help
	Show Active Keybindings Ctrl+Shift+L Tips and Tricks Report Bug or Enhancement Cheat Sheets
	 Eclipse User Storage Open the Eclipse Marketplace wizard Perform Setup Tasks
	 Check for Updates Install New Software
	🔮 Eclipse Marketplace
	About Eclipse

点击"Help",选择"Eclipse Marketplace",进入插件市场。

il ipse Marke ielect solutio	e tplace ons to install. Press Install Now to proceed with in	stallation.
ress the "m	ore info" link to learn more about a solution.	
earch Rece	ent Popular Favorites Installed 🖓 Eclipse N	ewsletter: Cape
nd: PyDev	Q ∠ All Markets ✓ All Categor	ies 🔹
Fastures		
Featured	1	
	Darkest Dark Theme w/DevStyle 201	.7 CI 10
Now IDE	Promoted - Darkest Dark is now DevStyle - a	free plugin
	Darkest Dark theme - #1 in the Marketplace: 1	rue more info
in select	by <u>Genuitec, LLC</u> , Commercial - Free	
	dark theme Darkest Dark Genuitec	
± 1139	Installs: 270K (22,520 last month)	Install
	Java 9 Support for Oxygen 4.7	
6	Promoted - Java™ 9 support for Eclipse JDT	is available now
	with Oxygen.1a (4.7.1a) release. Download Ecl	ipse Oxygen.1a
	(4.7.1a): more info	
Marketp	laces	
	2	
0		
2)	< Back Install Now > Finish	Cance

在 Find 输入框输入"PyDev",然后点击"Go",进行插件搜索。

Eclipse Mar	ketplace		×
Eclipse Marke Select solutio Press the "m	stplace ons to install. Press Install Now to proceed with ore info" link to learn more about a solution.	installation.	}
Search Rec Find: PyDev	ent Popular Favorites Installed 🖓 Eclipse <a href="https://www.eclipsetcommunication-commu</th><th>Newsletter: Cape</th><th>>
jo</th></tr><tr><th>∂PyDev
★ 902</th><th>PyDev - Python IDE for Eclipse 6.2.
PyDev is a plugin that enables Eclipse to be
(supporting also Jython and IronPython). It u
inference techniques which allow more inf
by Brainwy Software, EPL
IDE Python Aptana Pydev Django
Installs: 884K (14,703 last month)</th><th>0
used as a Python IDE
ses advanced type
9
Install</th><th></th></tr><tr><td>Marketp</td><td>laces</td><td></td><td></td></tr><tr><td>?</td><td>< <u>B</u>ack Install Now > Eini</td><td>sh Cancel</td><td></td></tr><tr><td>如图,已经</td><td>经搜索出 PyDev,点击" ins<="" td=""><td>tall"。</td><td></td>	tall"。	
	1600:		

🕃 Eclipse Marketplace	
Confirm Selected Features	
Press Confirm to continue with the installation. Or go back to choose more solutions to install.	
 PyDev - Python IDE for Eclipse 6.2.0 http://www.pydev.org/updates/ PyDev for Eclipse (required) Pydev Mylyn Integration 	
(?) < Install More Confirm > Einish Cancel	
-369/1	
兰解析,会进入上图,勾选全部,点击"Comfirm	" 。
1.8.4e.de.	
0	

No



经过一段时间等待, 会弹出如图对话框, 点击"Restart Now", 重启 Eclipse 即可完

成安装。

PyDev 设置

PvDev 安装完成后,我们需要为其指定对应的 Pvthon。

步骤如下:

30 / 39

and the second sec	wigate Search Project Run [Window Help	
📩 🔻 🔛 🦏	● • ■ ≥ ≥ ■ ↓ lorer ☎	New Window Editor Appearance Appearance Show View Perspective Navigation Web Browser Preferences	
击菜单"Wind	dows",选择"Perferences"。		

3 P2528					
> Java FF	Python interpreters (e.	.g.: python.exe, pypy.exe). Double-o	lick to rename.		
Java Persistence	Name	Location			Ne <u>w</u>
JavaScript					Ouide Auto Config
JSON					Quick Auto-connig
Maven					Advanced Auto-Con
> Mylyn					Remove
Oomph Development					
Plug-In Development					<u>U</u> р
Builders					Down
⊳ Debug					
⊳ Editor	🖶 Packages 📑 Li	ibraries Forced Builtins Predefined	d 🚾 Environment 🔵	String Substitution V	ariables
Interactive Consol	Library	Ver	sion		Internet and the state
 Interpreters 				Insta	any oninstan with pip
IronPython Inte				Install	/Uninstall with conda
Jython Interpre				Load co	nda env vars before rur
Python Interpre					
PyUnit					
Run					
Scripting PyDev					
Task Tags					
Remote Systems					
Run/Debug					
Server					
⊳ Team -				Restor	e <u>D</u> efaults Apply

从左边栏找到"PyDev-Interpreters-Python Interpreters", 点击"New"。

Select interpreter		×
Enter the name and exe	cutable of your interpreter	
Interpreter Name:	Python	
Interpreter Executable:	C:\Users\Administrator\AppData\Local\Programs\Py	Browse
	ОК	Cancel
	55 NOV	

在对话框输入 Interpreters Name, 点击"Browse",选择 Python 的安装路径, 点击 2

"	$\cap V$	"	
	OU		0

IMPORTANT: The folders fo	r your PROJECT	:M pythonpath! S should NOT be add	ed here but in	your project cor	figuratic
Check:http://pydev.org/mai	ual_101_interpr	eter.html for more det	ails.	Jour project cor	inguruur
🗹 📓 C:\Users\Administra	tor\AppData\Lo	cal\Programs\Python\F	ython36-32\DI	.Ls	
🗹 📓 C:\Users\Administra	tor\AppData\Lo	cal\Programs\Python\F	ython36-32\lib		
🗹 📓 C:\Users\Administra	tor\AppData\Lo	cal\Programs\Python\F	ython36-32		
			J	in backages	
		Select All not in Wor	kspace Se	lect All Det	select All
		Select All not in Wor	kspace Se	lect All Det	select All
		Select All not in Wor	kspace Se	lect All De	select A

然后, Eclipse 会找到相应的 Python 程序, 全部勾选, 点击"OK"。

be filter text	Python Interpret	eters						<mark>⇔</mark> • ⇔ •
 ▷ Java ▷ Java EE ▷ Java Persistence 	Python interpreters (e.g.: python.exe, pypy.exe). Double-click to rename.							
	Name Location						New	
JavaScript	Python C:\Users\Administrator\AppDat					Quick Auto-Confi		
JSON								Querrate com
Maven								Advanced Auto-Cor
Oomph								Remove
Plug-in Development								Up
Builders								Down
▷ Debug ▷ Editor	🖶 Packages	🛋 Libraries	Forced Builtins	Predefined	To Envir	onment	String Substitution	variables
▷ Interactive Console	Library (pip	2 found)		Versi	on		In	stall/Uninstall with nin
▲ Interpreters	pip			9.0.1 <pip></pip>				
lython Interpre	setuptool	5		28.8.0 <pip></pip>		Inst	Install/Uninstall with conda	
Python Interpre Logging PyUnit Run Scripting PyDev Task Tags							Load	conda env vars before ru
Remote Systems Run/Debug Server								
Team *							Rest	ore Defaults Apply

如图设置完成,点击"Apply and Close"



开始解析应用,稍后即可完成。

第一个 Python 程序

步骤如下:

1.11	Edit Navigate Search Project Run Window	Help		
	New Alt+Shift+N >	M	Maven Project	
	Open File	R	Enterprise Application Project	
0	Open Projects from File System	13	Dynamic Web Project	
-		89	EJB Project	
	Close Ctrl+W	1	Connector Project	
	Close All Ctrl+Shift+W		Application Client Project	
	Save Ctrl+S		Static Web Project	
	Save As		IPA Project	
	Save All Ctrl+Shift+S		Drainet	
COD.	Revert		Project	
		Ø	Servlet	
	Move	E\$	Session Bean (EJB 3.x)	
	Rename F2	53	Message-Driven Bean (EJB 3.x)	
3	Refresh F5	1	Web Service	
	Convert Line Delimiters To	C	Folder	
	Print Ctrl+P	19	File	
		-	- I	
<u>Ès</u>	Import		Example	
4	Export	Ľ	Other C	trl+N
	Properties Alt+Enter	1		
Q1	New			
Sel	New lect a wizard			
Sel	New lect a wizard izards:			
Sel Wi	New lect a wizard fizards: /pe filter text			
Sel W	New lect a wizard fizards: //pe filter text			
Sel Vi	New lect a wizard izards: //pe filter text //pe filter text //pe &Link to Existing Source			
Sel Vvi ty	New lect a wizard "izards: /pe filter text / Dev (# &Link to Existing Source (# &Source Folder			
Sel Wi ty	New lect a wizard "izards: //pe filter text // Dev // Bulink to Existing Source // Bulink to Existing Source // Bulink to Existing Source // Bulink to Existing Source // Bulink to Existing Source			
Sel Vi ty	New lect a wizard 'izards: /pe filter text / >> PyDev (#) &Link to Existing Source (#) &Source Folder (#) &Source Folder (#) PyDev &Module (#) PyDev Diango Project			
Sel Wi ty	New lect a wizard izards: /pe filter text / >> PyDev />> &Link to Existing Source />> &Source Folder />> PyDev &Module />> PyDev Django Project />> PyDev Google App Engine Project			
Sel Wi ty	New lect a wizard izards: rpe filter text Composition PyDev Composition & Source Composition & Source C			
Sel Wi ty	New lect a wizard izards: rpe filter text Composition PyDev Composition & Source Composition & Source C			
Wi ty	New lect a wizard fizards: rpe filter text PyDev Back to Existing Source ByDev Backage PyDev Django Project PyDev Google App Engine Project PyDev P&ackage PyDev Project Compared Surtem Eveloper			
Sel Wi ty	New lect a wizard fizards: rpe filter text PyDev Build to Existing Source Build Source Folder PyDev & Module PyDev Django Project PyDev Dogle App Engine Project PyDev Polex Rodel PyDev Polex Coogle App Engine Project PyDev Project Polex Project Polex Project			
Sel Wi	New lect a wizard fizards: rpe filter text PyDev Ballink to Existing Source Ballink to Existing Source Ballink to Existing Source PyDev & Module PyDev Django Project PyDev Diango Project PyDev Poge App Engine Project PyDev Poge Rackage PyDev Project Pamoto Surtem Evolution			

选择"PyDev-PyDev Project",点击"Next"。

PyDev Project Create a new PyDev Project. Project contents: Decide datat Project contents: Decide datat Project torters: Decides workspace/Test Project type Ochocose the project type Option D John O TronPyton Grammar Version Same as interpreter Interpreter Defined to configure an interpreter not listed. Additional grammars selected>. © ddd project directory to the PVTHONPATH Create links to going sources (selecthem on the next page) Don't configure PVTHONPATH to be done manually later on) Working sets IVA项目 名称, 点击 "Finish" cancel IVA项目 名称, 点击 "Finish" PyDev Package Explorer Image:			
Project contents: Project contents: Dive gefault Project contents: Dive gefault Project contents: Dive gefault Boyston October to project type October to project type October to project type October to project type Default = concently: Python Create an interpreter Interpreter Default = concently: Python Create and byte to the PYTHONPATH Create inks to egisting sources (select them on the next page) Dont configure PYTHONPATH (to be done manually later on) Working set: Vorting set: PyDev Package Explorer Setternal Libs System Libs	ByDey Project	9	
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如图是一个 Python 项目的文件结构。

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在 Test 文件夹下, 有单机, 选择"New-PyDev Module"。

Create a new P	ython module	The second se
Source Folder	/Test	Browse.
Package		Browse.
Name	hello	, , ,

输入名称,点击"Finish"。

🔘 eclipse-workspace - Test/hello.py - Eclipse		
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在文件中输入代码: print('hello word!'), 然后快捷键 "Ctr1+S" 保存。

5

] hello ⊠	\$	Undo Typing Revert File	Ctrl+Z		- 8	E Out
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在 hello.py 文件上, 右单机, 选择 "Run as-Python Run", 运行代码文件。

