



Linux Programming: Overview



自我介绍

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Why to Learn Linux?

- Free software; Free spirit
- Open source; Source codes: precious learning material
- Linux/UNIX Software Development
 - C/C++, Java, Shell, Perl, PHP, Python, Ruby, Tcl/Tk ...
- System/Network Administration
- Say no to monopoly
- Much more learning based on GNU/Linux
 - Distributed System, Embedded System
- Just for fun!
 - The DIY spirit
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Contents

- **Linux基础**
 - 什么是Linux，安装，基本操作与命令，开发工具
 - Unix's Philosophy
- **Shell编程***
- **系统程序设计***
 - 系统调用接口：文件管理、进程控制、进程间通信
- **Linux驱动介绍**
- **网络程序设计(选讲)**
 - TCP/IP, Socket



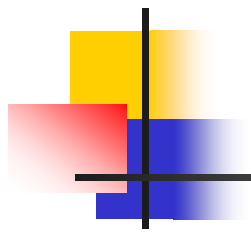
课程特点

- 相关课程
 - 前驱：操作系统，数据结构，C语言程序设计，Linux系统基础
 - 后继：嵌入式系统，分布式系统，网络编程.....
- 实践性强，涉及面广
- 侧重点：基本原理、关键技术、应用实例



Reference Books

- Beginning Linux Programming, 3rd/4th edition, Neil Matthew, Richard Stones, Wiley Publishing, Inc.
- UNIX环境高级编程, W. Richard Stevens著, 尤晋元等译。机械工业出版社
- GNU/Linux环境编程（第二版），M. TimJones著，张元章翻译，清华大学出版社
- The Art of UNIX Programming, Eric S. Raymond著，中国电力出版社
- UNIX网络编程
- TCP/IP 协议卷
- Linux kernel development
- Understanding Linux Kernel
- Other books or materials on Internet



Welcome for questions 😊