



**FREE eBook**

# LEARNING debian

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**#debian**

# Table of Contents

<b>About</b> .....	<b>1</b>
<b>Chapter 1: Getting started with debian</b> .....	<b>2</b>
Remarks.....	2
Versions.....	2
Examples.....	2
Installation and Setup.....	2
Glossary.....	3
<b>Chapter 2: Create a debian package</b> .....	<b>4</b>
Introduction.....	4
Examples.....	4
RegExpTestor.....	4
<b>Credits</b> .....	<b>6</b>

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# About

You can share this PDF with anyone you feel could benefit from it, downloaded the latest version from: [debian](#)

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# Chapter 1: Getting started with debian

## Remarks

This section provides an overview of what debian is, and why a developer might want to use it.

It should also mention any large subjects within debian, and link out to the related topics. Since the Documentation for debian is new, you may need to create initial versions of those related topics.

## Versions

Version	Release date
<a href="#">9.0</a>	2017-06-17
<a href="#">8.0</a>	2015-04-25
<a href="#">7.0</a>	2013-05-04
<a href="#">6.0</a>	2011-02-06
<a href="#">5.0</a>	2009-02-14
<a href="#">4.0</a>	2007-04-08

## Examples

### Installation and Setup

Description of the installation process :

- [Debian jessie -- Installation Guide](#)

Each architecture has his own installation guide :

- [amd64](#)
- [i386](#)
- [armel](#)
- [s390x](#)
- [powerpc](#)
- [armhf](#)
- [mips](#)
- [AArch64](#)
- [POWER.](#)

Download an iso image of the Debian distribution (stable release):

- [Debian installer](#)

Use the graphical installer :

- [Debian GNU/Linux Installation Guide, Chapter 6. Using the Debian Installer](#)

### **Debian testing:**

Debian testing is the current development state of the next stable Debian distribution

#### *Download*

The ISOs images can be downloaded from the official website : [Debian-testing ISOs](#)

## **Glossary**

### **Area**

The term used in Debian Policy for the main, contrib, and non-free divisions.

### **Architecture**

The type of system a piece of software is built for.

Such as amd64, i386, armel, s390x, powerpc, armhf, mips, AArch64, POWER.

### **Binary package**

An installable .deb file

### **Source package**

A unit of upstream software (with a single build system)

### **Suite**

A repository holding one particular "branch" of Debian's development process.

Such as unstable, testing, stable, oldstable.

Read [Getting started with debian online](#): <https://riptutorial.com/debian/topic/9043/getting-started-with-debian>

# Chapter 2: Create a debian package

## Introduction

This topic show how to create a debian package for software deployment.

## Examples

### RegExpTestor

This example show how I have created a package for my project [RegExpTestor](#)

So first of all, you have to create a tree. In my case I did this:

```
regexp_testor
├── DEBIAN
│   ├── control
│   └── postinst
├── opt
│   └── regexp_testor
│       ├── Icon
│       │   └── 48x48
│       │       └── regexp_testor_icon.png
│       └── regexp_testor
└── usr
    ├── bin
    └── share
        ├── applications
        │   └── regexp_testor.desktop
        ├── icons
        │   └── hicolor
        │       └── 48x48
        │           └── apps
        │               └── regexp_testor_icon.png
```

- `control` and `postinst` are script files without extension with 755 right
- `regexp_testor` is my binary
- `regexp_testor.desktop` is to add a shortcut in the menu

Now the content of files:

control file:

```
Package: regexp-testor
Version: 1.0
Section: devel
Priority: optional
Architecture: amd64
Depends: qt5-default
Maintainer: thibDev <your@email.com>
Homepage: https://github.com/thibDev
Description: RegExp testor
```

RegExp testor is a regular expression testor like the rubular.com website.

postinst **file:**

```
#!/bin/bash
echo "Create a symbolic link towards the binary"
sudo ln -s /opt/regexp_testor/regexp_testor /usr/bin
echo "Enjoy ;)"
```

regexp\_testor.desktop **file:**

```
[Desktop Entry]
Version=1.0
Type=Application
Name=RegExp testor
GenericName=RegExp testor
Comment=A regular expression testor like the rubular.com website
Exec=/opt/regexp_testor/regexp_testor
Terminal=false
MimeType=text/plain;
Icon=regexp_testor_icon
Categories=Development;
StartupNotify=true
```

Now you have everything you need to create your package ! Follow these steps

1. move into the folder that contain your package
2. run `sudo dpkg-deb --build package_name`

You have your package !

Read [Create a debian package online](https://riptutorial.com/debian/topic/9925/create-a-debian-package): <https://riptutorial.com/debian/topic/9925/create-a-debian-package>

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# Credits

S. No	Chapters	Contributors
1	Getting started with debian	<a href="#">Community</a> , <a href="#">GAD3R</a> , <a href="#">Marek Skiba</a> , <a href="#">Ortomala Lokni</a>
2	Create a debian package	<a href="#">GAD3R</a> , <a href="#">Thibaut B.</a>