Debian Science and Education packaging workshop

Package your very own scientific or educational application

Andreas Tille

Debian

LSM, Montpellier, 9. July 2014
Debian Science and Education packaging workshop

Andreas Tille

Short Introduction

Let's start with your own example

Required knowledge

- makefile
- diff / patch (quilt)
- SVN or Git
- debhelper
- lintian
Debian Science and Education packaging workshop

Andreas Tille

Short Introduction

Let's start with your own example

Required knowledge

- makefile
- diff / patch (quilt)
- SVN or Git
- debhelper
- lintian
Required knowledge

- makefile
- diff / patch (quilt)
- SVN or Git
- debhelper
- lintian
Short Introduction

Let's start with your own example

Required knowledge

- makefile
- diff / patch (quilt)
- SVN or Git
- debhelper
- lintian
Required knowledge

- makefile
- diff / patch (quilt)
- SVN or Git
- debhelper
- lintian
Motivation

Do-O-cracy
Debian Science Policy Manual
Debian Science user list or Debian Edu user list

Debian Science developer list (no specific developer list for Debian Edu)

Debian Science commits

#debian-science / #debian-edu at irc.debian.org

Recommended: Mentoring of the Month (MoM) as done by Debian Med team

Sponsoring of Blends
Communication

- **Debian Science user list** or **Debian Edu user list**
- **Debian Science developer list** (no specific developer list for Debian Edu)
- **Debian Science commits**
- `#debian-science / #debian-edu` at irc.debian.org
- Recommended: [Mentoring of the Month (MoM)](https://www.debian.org/doc/mom/) as done by Debian Med team
- **Sponsering of Blends**
Communication

- **Debian Science user list** or **Debian Edu user list**
- **Debian Science developer list** (no specific developer list for Debian Edu)
- **Debian Science commits**
  - #debian-science / #debian-edu at irc.debian.org
  - Recommended: *Mentoring of the Month (MoM)* as done by Debian Med team
  - Sponsoring of Blends
Communication

- Debian Science user list or Debian Edu user list
- Debian Science developer list (no specific developer list for Debian Edu)
- Debian Science commits
- #debian-science / #debian-edu at irc.debian.org
- Recommended: Mentoring of the Month (MoM) as done by Debian Med team
- Sponsoring of Blends
Communication

- **Debian Science user list** or **Debian Edu user list**
- **Debian Science developer list** (no specific developer list for Debian Edu)
- **Debian Science commits**
- #debian-science / #debian-edu at irc.debian.org
- Recommended: **Mentoring of the Month (MoM)** as done by Debian Med team

* Sponsoring of Blends
Debian Science user list or Debian Edu user list
Debian Science developer list (no specific developer list for Debian Edu)
Debian Science commits
#debian-science / #debian-edu at irc.debian.org
Recommended: Mentoring of the Month (MoM) as done by Debian Med team
Sponsering of Blends
Needed packages

\texttt{dpkg-dev} \textit{needed tools}

\texttt{make} \texttt{debian/rules} \texttt{is a Makefile}

\texttt{dh-make} \texttt{create a template}

\texttt{debhelper} \texttt{just use it}

\texttt{devscripts} \texttt{very useful}

\texttt{fakeroot} \texttt{pretend to be root}

\texttt{gnupg} \texttt{sign package}

\texttt{lintian} \texttt{policy checker}

\texttt{pbuilder} \texttt{build package in chroot}

\texttt{build-essential} \texttt{metapackage}
Needed packages

\texttt{dpkg-dev} needed tools

\texttt{make} \texttt{debian/rules} is a \texttt{Makefile}

\texttt{dh-make} create a template

\texttt{debscripts} very useful

\texttt{fakeroot} pretend to be root

\texttt{gnupg} sign package

\texttt{lintian} policy checker

\texttt{pbuilder} build package in chroot

\texttt{build-essential} metapackage
Needed packages

\textit{dpkg-dev} needed tools

\textit{make} \textit{debian/rules} is a Makefile

\textit{dh-make} create a template

\textit{debhelper} just use it

\textit{devscripts} very useful

\textit{fakeroot} pretend to be root

\textit{gnupg} sign package

\textit{lintian} policy checker

\textit{pbuilder} build package in chroot

\textit{build-essential} metapackage
Needed packages

dpkg-dev  needed tools
make  debian/rules is a Makefile
dh-make  create a template
debhelper  just use it
devscripts  very useful
fakeroot  pretend to be root
gnupg  sign package
lintian  policy checker
pbuilder  build package in chroot
build-essential  metapackage
Needed packages

- `dpkg-dev` needed tools
- `make` `debian/rules` is a Makefile
- `dh-make` create a template
- `debhelper` just use it
- `devscripts` very useful
- `fakeroot` pretend to be root
- `gnupg` sign package
- `lintian` policy checker
- `pbuilder` build package in chroot
- `build-essential` metapackage
Needed packages

\texttt{dpkg-dev} needed tools

\texttt{make} \texttt{debian/rules} is a Makefile

\texttt{dh-make} create a template

\texttt{debhelper} just use it

\texttt{devscripts} very useful

\texttt{fakeroot} pretend to be root

\texttt{gnupg} sign package

\texttt{lintian} policy checker

\texttt{pbuilder} build package in chroot

\texttt{build-essential} metapackage
Needed packages

- **dpkg-dev** needed tools
- **make** debian/rules is a Makefile
- **dh-make** create a template
- **debhelper** just use it
- **debscripts** very useful
- **fakeroot** pretend to be root
- **gnupg** sign package
- **lintian** policy checker
- **pbuilder** build package in chroot
- **build-essential** metapackage
Needed packages

- **dpkg-dev** needed tools
- **make** debian/rules is a Makefile
- **dh-make** create a template
- **debhelper** just use it
- **devscripts** very useful
- **fakeroot** pretend to be root
- **gnupg** sign package
- **lintian** policy checker
- **pbuilder** build package in chroot
- **build-essential** metapackage
Needed packages

- **dpkg-dev** needed tools
- **make** `debian/rules` is a Makefile
- **dh-make** create a template
- **debhelper** just use it
- **devscripts** very useful
- **fakeroot** pretend to be root
- **gnupg** sign package
- **lintian** policy checker
- **pbuilder** build package in chroot

**build-essential** metapackage
Needed packages

- **dpkg-dev** needed tools
- **make** debian/rules is a Makefile
- **dh-make** create a template
- **debhelper** just use it
- **devscripts** very useful
- **fakeroot** pretend to be root
- **gnupg** sign package
- **lintian** policy checker
- **pbuilder** build package in chroot
- **build-essential** metapackage
Debian Science and Education packaging workshop

Andreas Tille

Short Introduction

Let's start with your own example

What is your most wanted project?
How to start?

Let's start with your own example

### dh_make

```bash
dh_make
```

### or

```bash
svn export svn://anonscm.debian.org/\svn/debian-med/trunk/package_template debian
```

... which needs to be adapted from Debian Med but might be helpful anyway