

RPM-Bau für Einsteiger

am Beispiel von

Xpuyopuyo

-

einem Tetris-ähnlichen Spiel



Voraussetzungen:

Paket: rpm-build

Config-Dateien: .rpmmacros

Paketbaudateibaum



.rpmmacros

Use the home directory for building.

Needed dirs (or symlinks): BUILD RPMS/i686 SOURCES SPECS SRPMS

```
%_topdir      /home/oli/rpm-build/rpm/2009.1
%_tmppath     /home/oli/rpm-build/rpm/2009.1/tmp

%_signature   gpg
%_gpg_name    RPM-Team MandrivaUser.de <rpm@mandrivauser.de>
%_gpg_path    ~/.gnupg

%packager     Oliver Burger

%distribution  Mandriva Linux
%vendor       RPM-Team Mandrivauser.de

%distsuffix   mud
%distversion  2009.1

%_enable_debug_packages%{nil}
%debug_package      %{nil}
```

Der Dateibaum:

2009.1 → BUILD
→ BUILDROOT
→ RPMS → i586
→ noarch
→ SOURCES
→ SPECS
→ SRPMS
→ tmp

Die Kommandozentrale:

das SPEC-File

Hier befinden sich:

- **der Paketname**
- **die Version**
- **das Release**
- **Voraussetzungen**
- **spezielle Abhängigkeiten**

- **der Bauprozess**
- **die Menüeinträge**

- **die Dateiliste**

- **das Changelog**



Der Kopf:

```
##### Header #####
```

```
%define name      xpuyopuyo  
%define version   0.9.8  
%define release   %mkrel 1
```

Summary: A puzzle game, somewhat like Tetris

Name: %{name}

Version: %{version}

Release: %{release}

Source0: %{name}-%{version}.tar.gz

License: GPLv2+

Group: Games/Strategy

URL: <http://chaos2.org/xpuyopuyo/>

BuildRequires: gtk+1.2-devel libmikmod-devel xpm-devel

Die Beschreibung:

Description

%description

Xpuyopuyo is a UNIX port of a very big time sink :) . Puyo puyo is a puzzle game, somewhat like Tetris (but much more involved in strategy), where you strive to match up four "blobs" of the same color. Each match you make gives points, and also dumps gray rocks on the opponent which are irritating and troublesome to get rid of. Multiple matches at a time score more points, and dump more rocks on the opponent (a quintuple-match will dump around 20 rocks on the opponent, all at once).



Vorbereitungen, Bau und Installation:

```
##### Prep, Build & Install #####
```

```
%prep
```

```
%setup -q
```

```
%build
```

```
##%configure
```

```
./configure --prefix=%{_prefix} --mandir=%{_mandir}
```

```
%make
```

```
%install
```

```
rm -rf %{buildroot}
```

```
%makeinstall_std
```


Der Menüeintrag:

```
##### Menu Entry #####  
mkdir -p %buildroot%{_datadir}/applications  
cat > %buildroot%{_datadir}/applications/%name}.desktop <<EOF  
[Desktop Entry]  
Name=%name}  
Comment=A puzzle game, somewhat like Tetris  
Comment[de]=Ein Puzzle-Spiel ähnlich zu Tetris  
Exec=%_bindir}/%name}  
Icon=%name}  
Terminal=false  
Type=Application  
StartupNotify=true  
Categories=Game;StrategyGame;  
EOF
```

Der Abschluss:

```
%clean  
rm -rf %{buildroot}  
  
%if %mdkversion < 200900  
%post  
%{update_menus}  
%postun  
%{clean_menus}  
%endif
```



Die Dateiliste:

%files

%defattr(-,root,root,0755)



Das Changelog:

%changelog

- * Sat Aug 23 2008 Oliver Burger <rpm@mandrivauser.de> 0.4-1mud2008.1
 - initial package for Mandrivalinux
 - built live on FrOSCon

Der erste Befehlsaufruf

```
[jobgr@beteigeuze SPECS]$ rpmbuild -ba --clean xpuyopuyo.spec  
[...]
```

Fehler beim Bauen des RPM:

Installierte (aber nicht gepackte) Datei(en) gefunden:

/usr/bin/xpuyopuyo

/usr/share/applications/xpuyopuyo.desktop

/usr/share/man/man6/xpuyopuyo.6.lzma

/usr/share/xpuyopuyo/copying.txt

/usr/share/xpuyopuyo/sounds/game.xml

/usr/share/xpuyopuyo/sounds/gameover.xml

/usr/share/xpuyopuyo/sounds/prelude.xml

/usr/share/xpuyopuyo/themes/3dRokz/img_0.xpm

[...]



Die Dateiliste (reprice):

```
%files
%defattr(-,root,root,0755)
%{_bindir}/%{name}
%{_mandir}/man6/%{name}.6.lzma
%{_datadir}/applications/%{name}.desktop
%{_datadir}/%{name}
```

Der zweite Befehlsaufruf

```
[obgr@beteigeuze SPECS]$ rpmbuild -bi --short-circuit xpuyopuyo.spec  
[...]
```

```
[obgr@beteigeuze SPECS]$ rpmbuild -ba --short-circuit --clean xpuyopuyo.spec
```

Wichtige Links:

<http://wiki.mandriva.com/en/Development/Howto/RPM>

<http://www.mandrivauser.de/doku/doku.php?id=advanced:paketbau:rpminschritten>

http://www.mandrivauser.de/doku/doku.php?id=obgr_seneca:rpm-bau:step_by_step

<http://wiki.mandriva.com/en/Development/Packaging/Groups>

<http://standards.freedesktop.org/menu-spec/latest/apa.html>