

## pkgng: New package tools

Baptiste Daroussin bapt@FreeBSD.org

FreeBSD Developer Summit EuroBSDcon 2011 Maarssen, The Netherlands October 8th 2011

- old and complicated code
- no upgrades
- ugly workarounds: +REQUIRED\_BY
- slow with a large set of installed ports
- lack of features



## What pkgng is not

- not a new port management tool
- not a tool on top of pkg\_install
- not a replacement for ports

- a replacement for pkg\_install
- a binary package manager (ala apt/yum)
- a new binary package format
- a simple and easy to use full featured library
- a repository management tool
- compatible with the ports tree out of the box
- a tool that easier creating package manually



### New package format

#### more metadata:

\$ pkg search -f chromium

Name : chromium

Version : 13.0.782.215

Origin : www/chromium

Prefix : /wsr/local

Categories : www

Licenses : MPL | LGPL2 | BSD

Maintainer : chromium@Free8SD.org

WWW : http://www.chromium.org/Home
Comment : A mostly BSD-licensed web browser based on WebKit and Gtk+

Options : CODECS: on

GCONF: on
VPX: on
Flat size : 74 MB
Pkg size : 19 MB

Description : Chromium is an open-source browser project that aims to build a safer, faster, and more stable way for all users to experience the web.

The Chromium website contains design documents, architecture overviews, testing information, and more to help you learn to build and work with the Chromium source code.

WWW: http://www.chromium.org/Home

- a single serialisable manifest (YAML)
- full path files
- upgrade scripts



## **Binary management?**

- updating the repository informations
- \$ pkg update
  http://pkqnq.etoilebsd.net/eeepc/repo.txz 100% 157KB 157.1KB/s 157.1KB/s 00:00
  - upgrading
- \$ pkg upgrade
  - installing
- \$ pkg install libreoffice
  - cleaning
- \$ pkg autoremove
  - searching for remote packages
- \$ pkg search chromium chromium-13.0.782.215: A mostly BSD-licensed web browser based on WebKit and Gtk+

# **libpkg**

Full featured

High level

Easy to use

Easy to write custom frontends

more data integrity checking more code review, in particular SSL usage packagekit backend support MOVED write the bootstrap script (binary) for base write the bootstrap (source) for ports write the port

http://wiki.freebsd.org/pkgng

https://github.com/pkgng/pkgng

irc://freenode/#pkgng

questions?