

Kalyxo

Linking the worlds of KDE and Debian

Kévin Ottens & Peter Ročkai

KDE Community World Summit 2004, aKademy

Kalyxo history



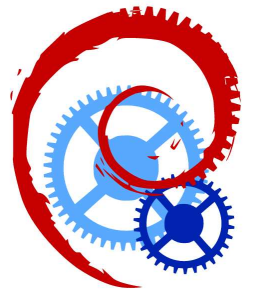
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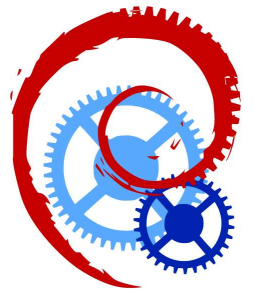
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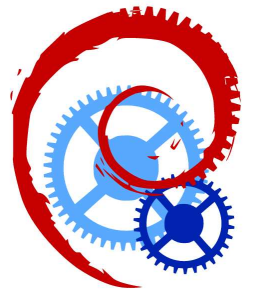
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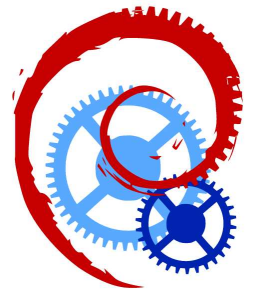
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 - After UserLinux excitement
 - Lot of ideas...
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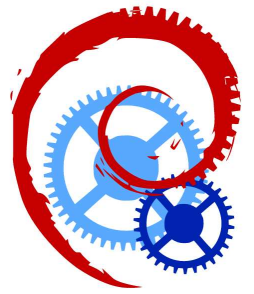
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- Resurrection
 - Renamed the project, KDE-Debian → Kalyxo
 - Work in progress
 - Contributors are coming

Kalyxo mission



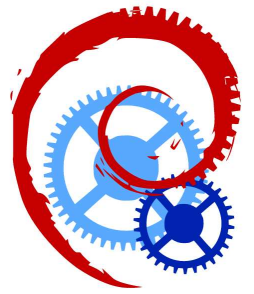
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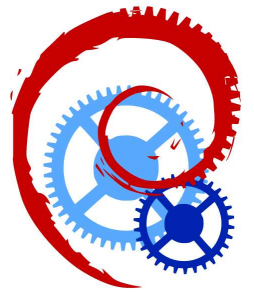
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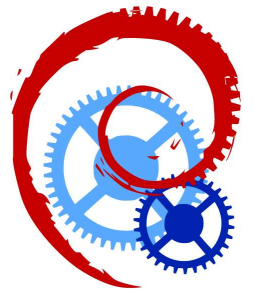
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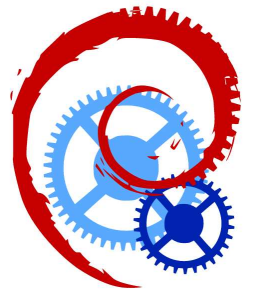
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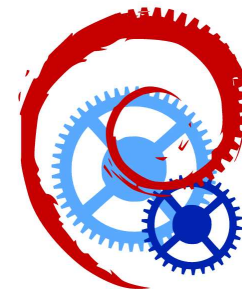


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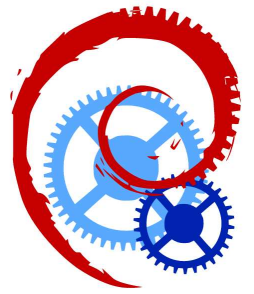
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- **Smooth desktop user experience**
- Promotion
 - Finding potential partner projects
 - FreeNX packaging for Debian



Goals and Achievements

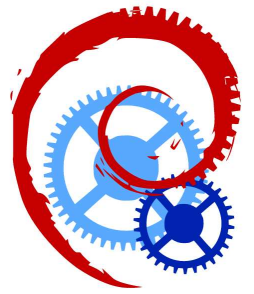
What is done?

Staging Archive



- Management policy
 - Ensure KDE based applications are well supported in Debian

Staging Archive



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Staging Archive



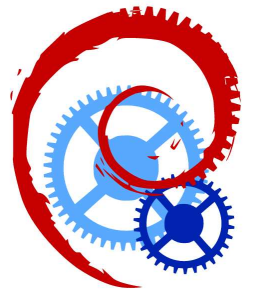
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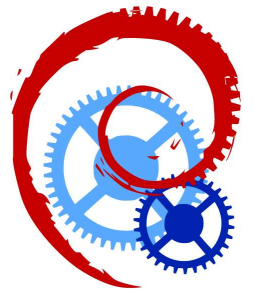
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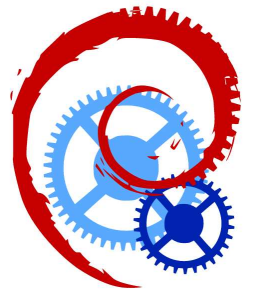
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 - Kapture
 - NoMachine NX libraries
 - FreeNX (soon)

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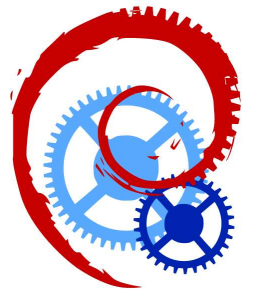
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- **Central point for not-yet-in-Debian KDE related packages**

KDebconf

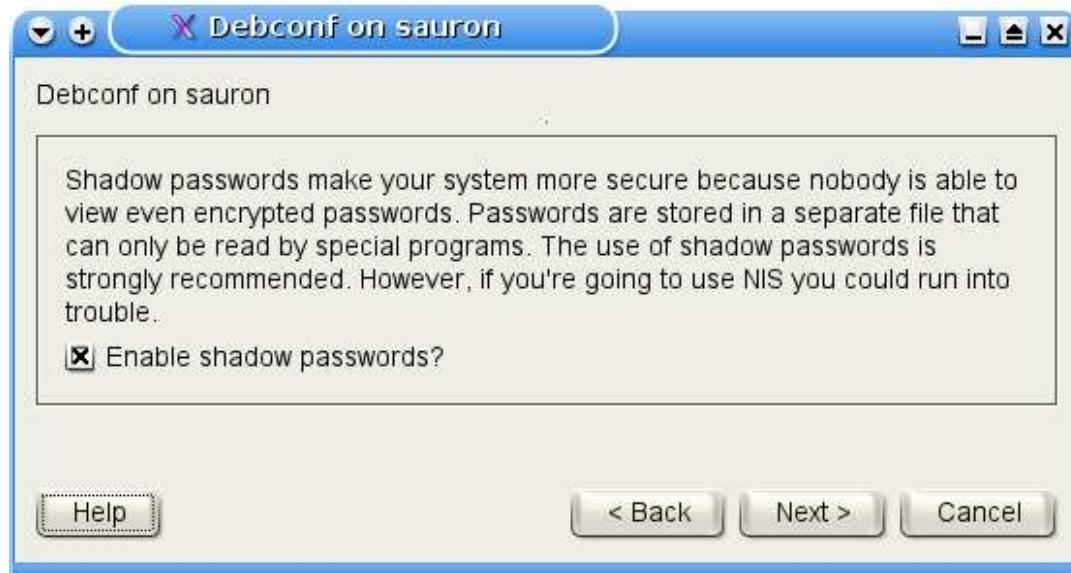


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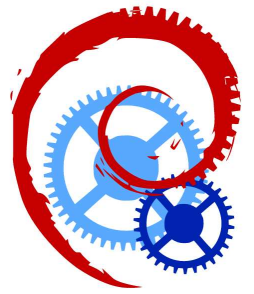
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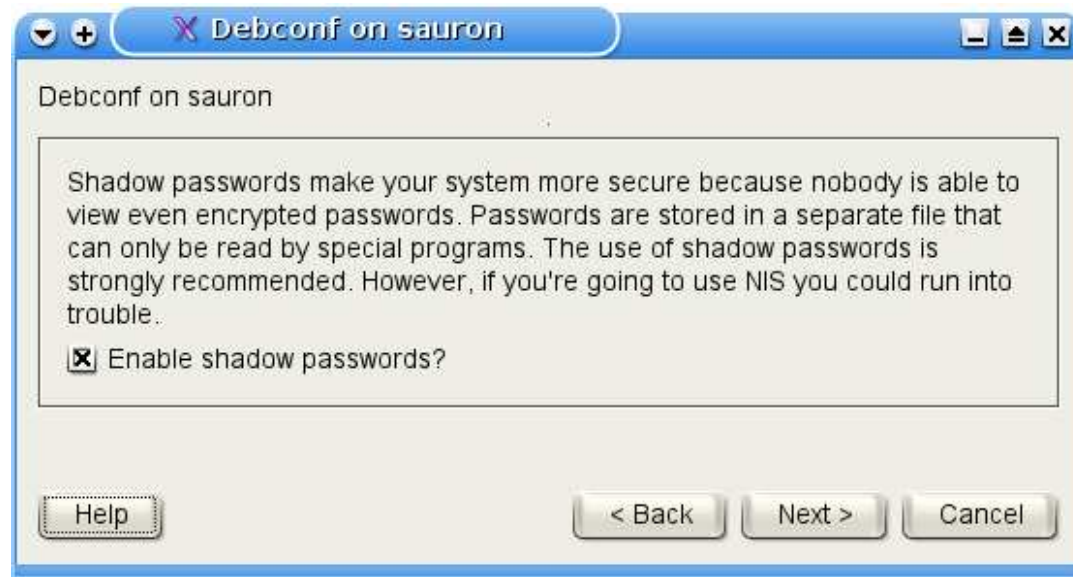
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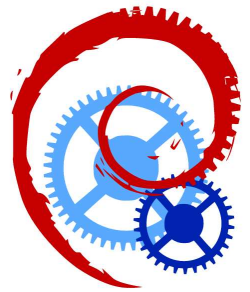


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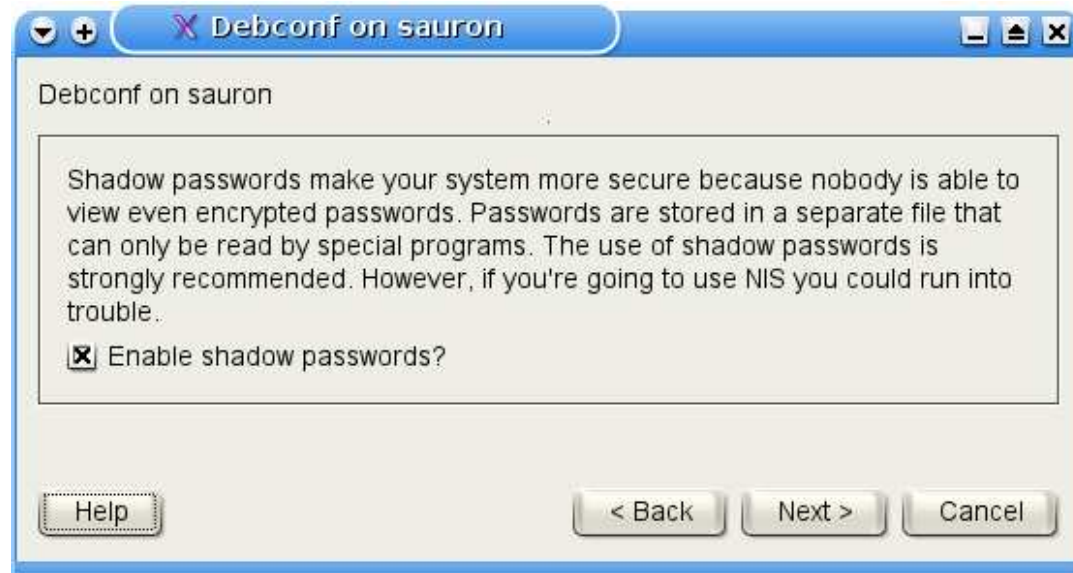


- Some more work needed
 - Facelifting
 - Code cleaning

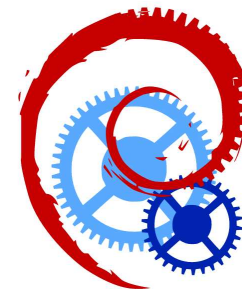
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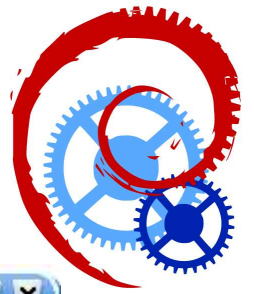
- Some more work needed
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- No impact for the user he can start using it out of the box



Goals and Achievements

What is being worked on?

Pakager / Quickpackage



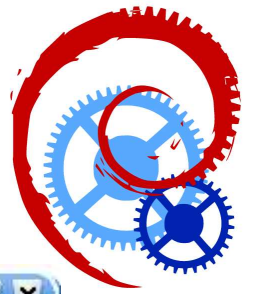
- GUI frontend / CLI tool

The screenshot shows the 'Pakager' window with the following fields and controls:

- Application name:
- Upstream author(s):
- Homepage:
- Section:
- License:
- Short description:
- Long description:
- Advanced section:
 - CDBS class:
 - Extra dependencies:
 - Build-Depends:
 - Depends:
 - Recommends:
 - Suggests:

Buttons at the bottom: Quit, Preview, Build

Pakager / Quickpackage



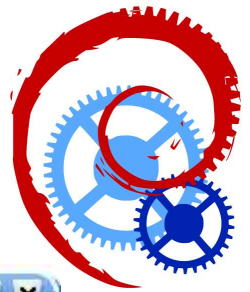
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- Packagers can win time for the first packaging

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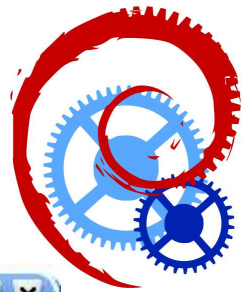
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 - Mostly for packaging applications...
 - ... but provides a good foundation for more complex packaging

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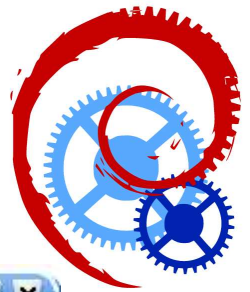
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- GUI frontend / CLI tool
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 - Mostly for packaging applications...
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- Interaction with KDevelop is planned

A screenshot of the 'Pakager' application window. The window has a blue title bar with the name 'Pakager' and standard window controls. The main area contains several input fields and dropdown menus. The 'Application name' field is empty. The 'Upstream author(s)' field is empty. The 'Homepage' field is empty. The 'Section' dropdown menu is set to 'kde'. The 'License' dropdown menu is set to 'GPL'. The 'Short description' field is empty. The 'Long description' field is empty. Below these fields is an 'Advanced' section with a 'CDBS class' dropdown menu set to 'kde'. Underneath are four input fields for 'Extra dependencies': 'Build-Depends', 'Depends', 'Recommends', and 'Suggests', all of which are empty. At the bottom of the window are three buttons: 'Quit', 'Preview', and 'Build'.

Pakager / Quickpackage



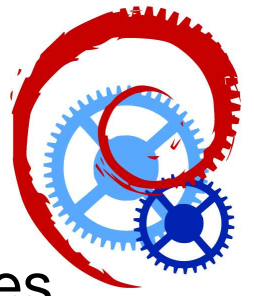
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- Interaction with KDevelop is planned
- Easy for regular users too, tailored packages made easy

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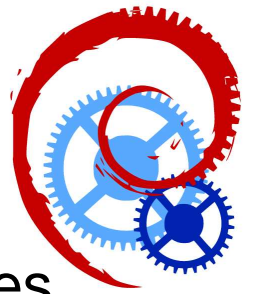
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Kapture overview



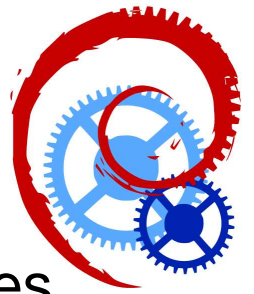
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Kapture overview



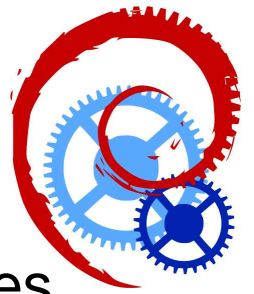
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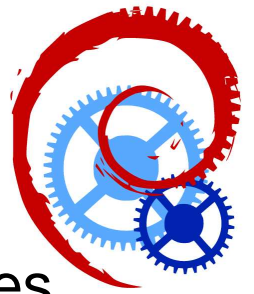
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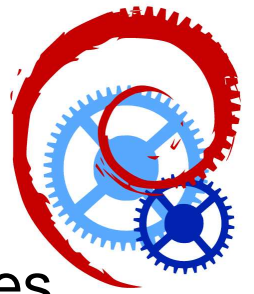
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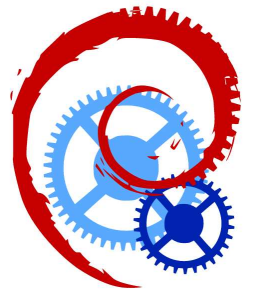
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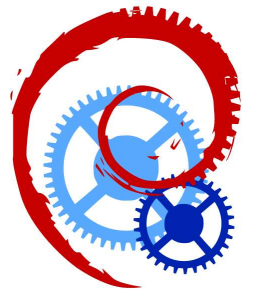
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 - More specialized single-task KDE frontends:
 - Single package installer part
 - Minimalistic group-based manager

Kapture: libcapture



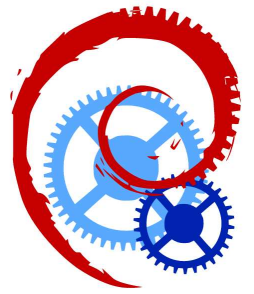
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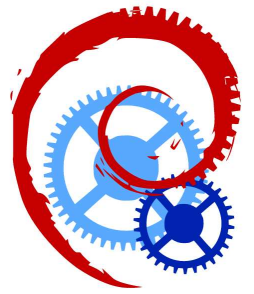
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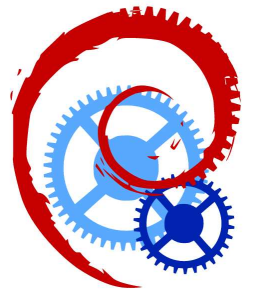
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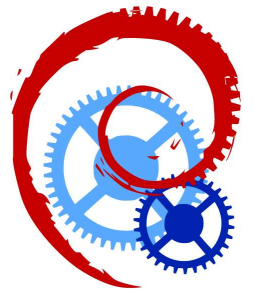
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- Utility classes for easy UI frontend building:
 - libkapture has less than 2000 LOC

Kapture: libkapture



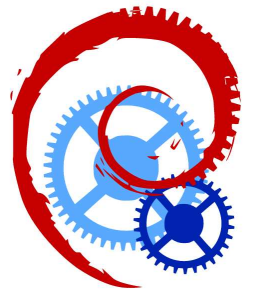
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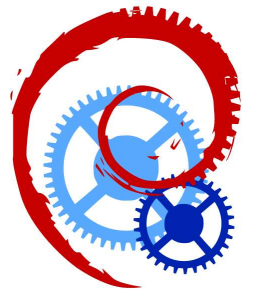
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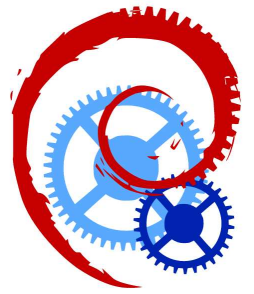
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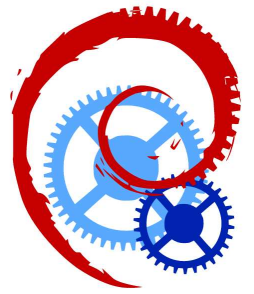
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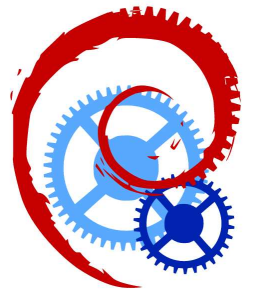
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Kapture frontends



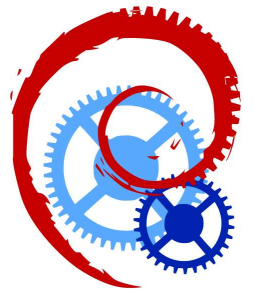
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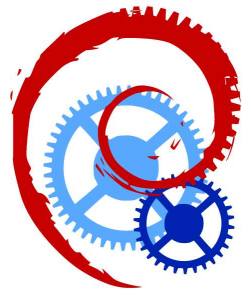
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Kapture frontends



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Kapture frontends



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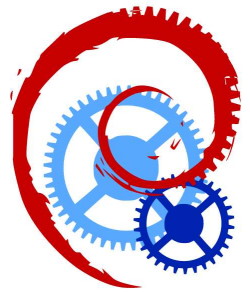
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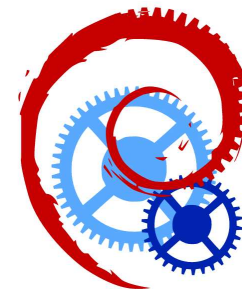
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■ Kurrent

- A simple, robust system upgrader
- Easy to use and quick to handle
- Written in under 200 LOC

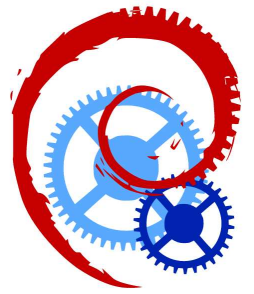




Goals and Achievements

What is being planned?

KaST: Overview



- Requirements and expectations:

KaST: Overview



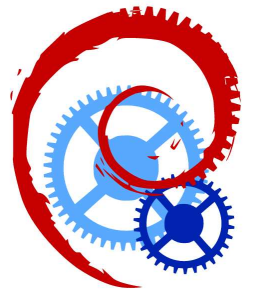
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KaST: Overview



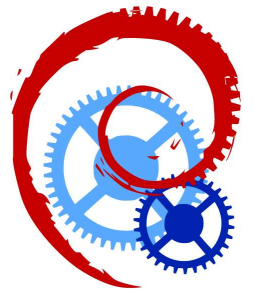
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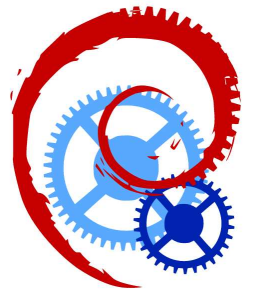
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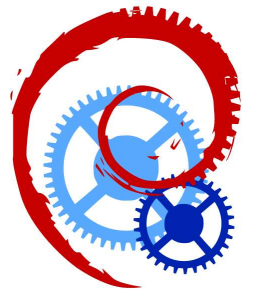
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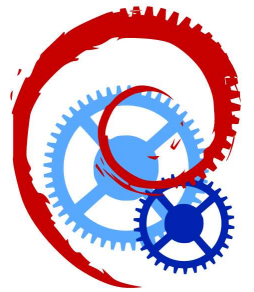
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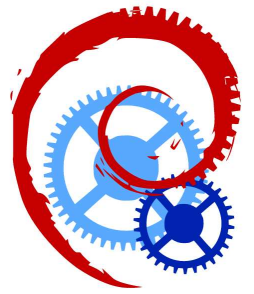
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- Backend system
 - Bridge config files to frontends
 - Semi-bidirectional

KaST: Frontends



- Debconf
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KaST: Frontends



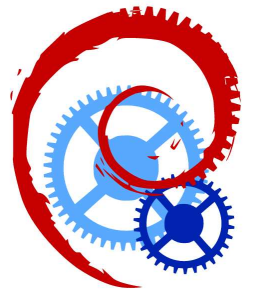
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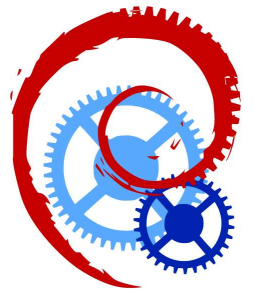
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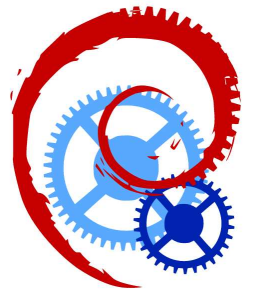
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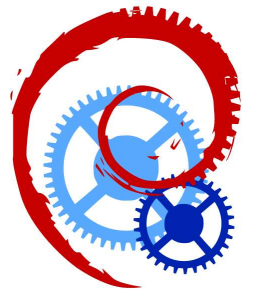
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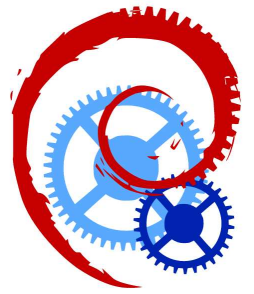
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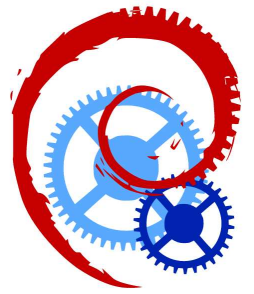
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- Driven by extended debconf-like protocol

KaST: Frontend logic



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 - Make writing the logic easy

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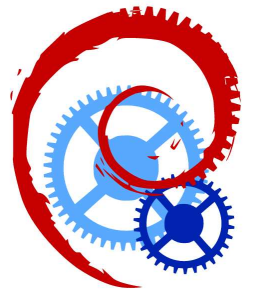
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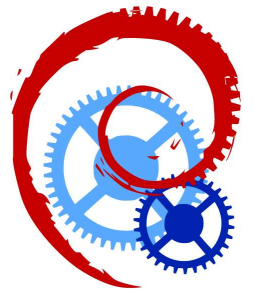
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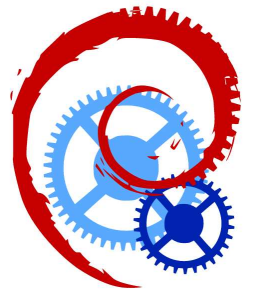
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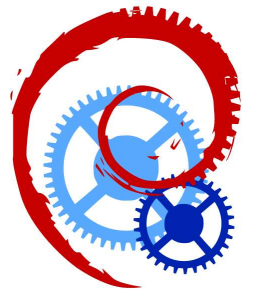
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 - Compiled into perl or a shell script
 - Result resides in the package .config file

KaST: Backends



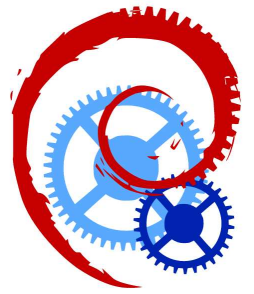
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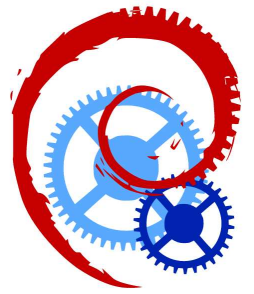
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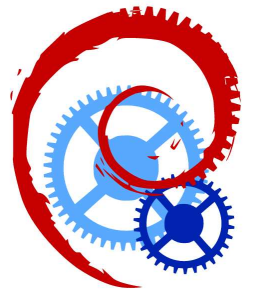
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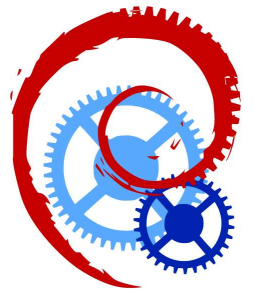
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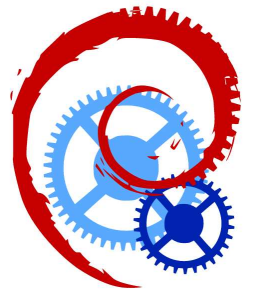
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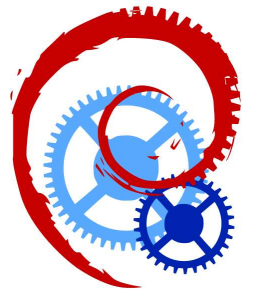
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- Will be able to reconfigure package safely
 - Guard against stomping over user changes
 - Possibly by comparing checksum with a stored one

More cooperation



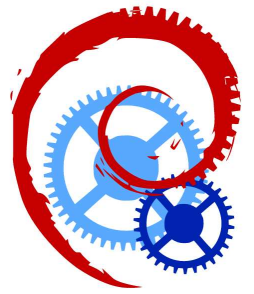
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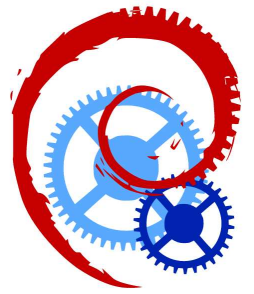
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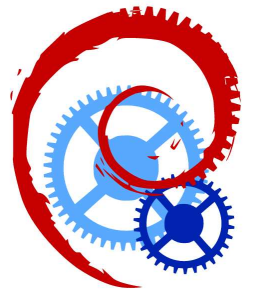
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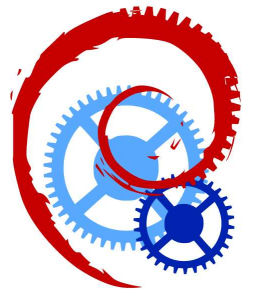
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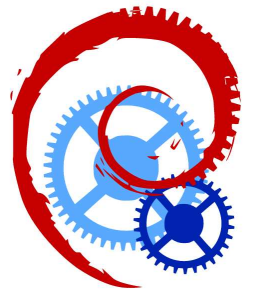
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Kalyxo releases



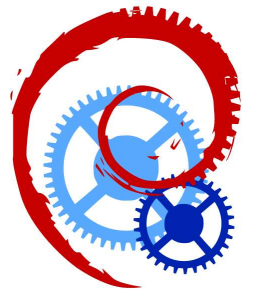
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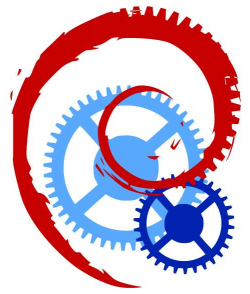
- Could be a base for the desktop platform
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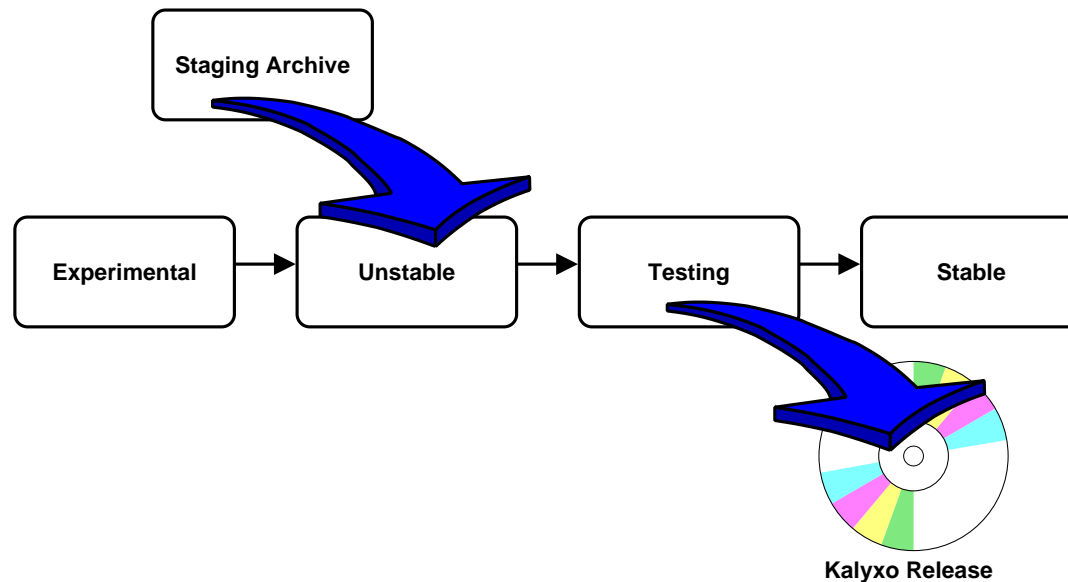


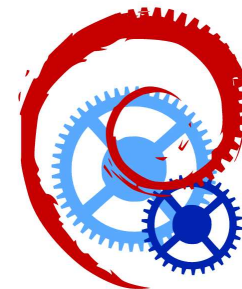
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- Naturally improved by the staging archive work





Advantages

Users and Administrators



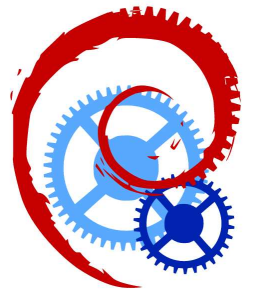
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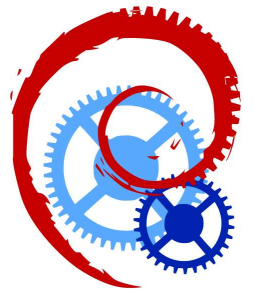
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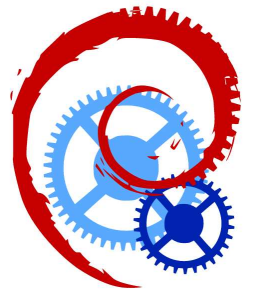
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- Power of Debian beneath the surface
 - Rock solid upgrades
 - High quality packages

Developers and Packagers



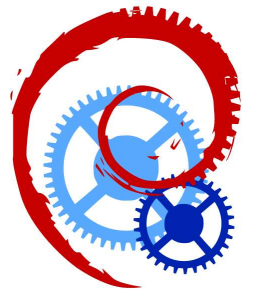
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 - Full power of KDE development tool chain
- First-class sytem integration
 - Transparent when possible (KDebconf)
 - Easier third-party developments