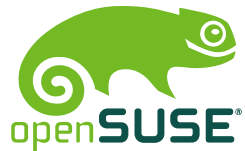


Porting applications to GNOME 3



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Outline

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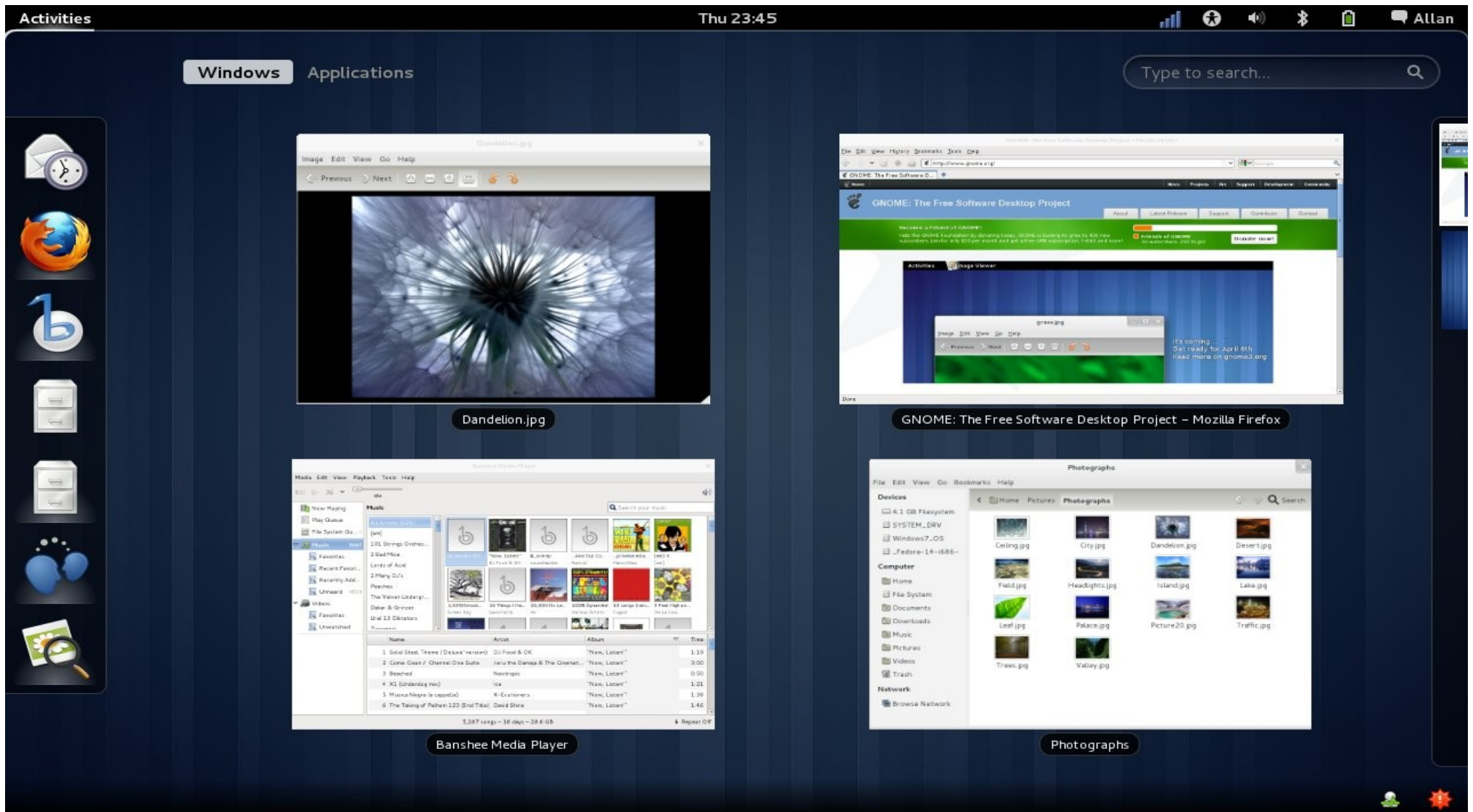


What is GNOME

- complete desktop environments
- consist of a large number of tightly integrated yet still separate pieces of software
-



GNOME 3





Essential Steps

- Do not use deprecated libraries
- Make your GTK+2 application GTK+3 compliant
- Port your GTK+2 application to GTK+3
- Fix your .desktop file
- Use -symbolic icons
- Include a high-resolution application icon.
 - Sizes covered should include 16x16, 22x22 (24x24), 32x32, 48x48 and 256x256



Some Additional Steps

- Port your application to GtkApplication, particularly if you are using libunique.
- Use GSettings instead Gconf.
- Use GDBus instead dbus-glib.
-



Do not use deprecated libraries

- libglade: Use GtkBuilder instead.
- libgnome, libgnomeui: use GTK+ features directly instead.
- gnome-vfs: use GIO instead.
- Bonobo: use GTK+ features and GDBus



Make your GTK+2 application GTK+3 compliant

- Only use toplevel Glib / GTK+ headers:
- Do not use deprecated Glib / GTK+ symbols:
- Compile your app with `-DGSEAL_ENABLE`:
- Use Cairo instead deprecated GDK api



Port your GTK+2 application to GTK+3

- Preparation in GTK+ 2.x
 - Do not include individual headers
 - Do not use deprecated symbols
 - Use accessor functions instead of direct access
 - Replace GDK_<keyname> with GDK_KEY_<keyname>
 - Use GIO for launching applications
 - Use cairo for drawing
-



Port your GTK+2 application to GTK+3 contd.

- Changes that need to be done at the time of the switch
 - Replace `size_request` by `get_preferred_width/height`
 - Replace `GdkRegion` by `cairo_region_t`
 - Replace `GdkPixmap` by `cairo surfaces`
 - Replace `GdkColormap` by `GdkVisual`
 - `GdkDrawable` is gone
 - Event filtering
 - Backend-specific code
 - `GtkPlug` and `GtkSocket`
 - The `GtkWidget::draw` signal



Port your GTK+2 application to GTK+3 contd.

- Changes that need to be done at the time of the switch
 - GtkProgressBar orientation
 - Check your expand and fill flags
 - Scrolling changes
 - GObject is gone
 - GtkEntryCompletion signal parameters
 - Resize grips
 - Prevent mixed linkage
 - Install GTK+ modules in the right place
 - Theming changes



Devhelp

- API documentation browser for GTK+ and GNOME.
- If you use gtk-doc with your project, you can use Devhelp to browse the documentation.



How to Port

- Go through Devhelp
- If docs are not yet updated ??
 - Go Through 'git commits'
 - *Check for commits containing <deprecated api>*
 - *If above fails check for commits adding/removing strings <deprecated api>*

References

- <http://desktoplinux.com/files/misc/gnome3>
- <http://live.gnome.org/action/show/DevGnc>
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QUESTIONS????

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