



GNOME Developer Kit

**A GNU/Linux Distribution for GNOME
Developers**



What is the dev kit?



- GNU/Linux Distribution
- Built on Foresight
- GNOME built from SVN
- Built and packaged with conary
- KVM/Qemu or VMWare disk image



Getting started



- Download the latest disk image
- Start up virtual machine
- Install from CD
- Update to the latest state
 - Packagekit icon in panel
 - `conary updateall`; on commandline



How to use it?



- Translation
 - get your translation tools, continue to work as usual, but test with the latest versions
- Documentation
 - check the latest versions and update documentation accordingly



How to develop GNOME?



- live.gnome.org/GnomeDeveloperKit/BuildingPackages
- Check out and build a GNOME module
 - `cvc co empathy`
 - `cvc cook empathy.recipe`
 - `sudo conary update empathy-r599.ccs`



Add Patches



- Create a diff
- Add patch to empathy.recipe
- cook; update; test...
- `sudo conary rollback 1`
- Update conarys source from SVN
 - `cvc refresh empathy--.tar.bz2`



Adding Patches



```
loadSuperClass('gnomepackage')
class Empathy(GnomePackageRecipe):

    name = 'empathy'
    version = GnomePackageRecipe._getVersion(name)

    buildRequires = ['aspell:devel', 'GConf:devel', 'GConf:runtime',
                    'ORBit2:devel', 'dbus-glib:runtime', 'gnome-keyring:devel',
                    'gnome-vfs:devel', 'libart_lgpl:devel', 'libbonobo:devel',
                    'libbonoboui:devel', 'libglade:devel', 'libgnome:devel',
                    'libgnomecanvas:devel', 'libgnomeui:devel', 'popt:devel',
                    'libtelepathy:devel', 'telepathy-mission-control:devel',
                    'evolution-data-server:devel', 'gnome-panel:devel',
                    'desktop-file-utils:config']

    extraConfig = ' --enable-python=no --enable-voip=yes'

    def install(r):
        GnomePackageRecipe.install(r)
        r.Install('data/empathy.desktop', '%(datadir)s/applications/')

    patches = ['fixme.patch', 'mypatch.patch',
              'http://bugzilla.gnome.org/attachment.cgi?id=100212']
```



What is Conary?



- Advanced package management
- Rich versioning scheme
- More reliable updates
- Make packaging simpler
- Merges concepts from source control into the package management space
- Downloads upgrades as changesets
- Branch packages
- Rollback!



Why not just build from source?



- More control over the install process
- Rollback
- Reinstall
- Keep different versions around.
- No need to rebuild everything
- Get binary updates for other modules from repository



Contribute!



- GNOME Dev Kit needs more maintainers!
- please please please :)
- Dev kit should be updated daily
 - Can be automated
 - `buildRequires` need to be maintained
- Build install CDs for devel. Milestones
 - Easy with the rBuilder webinterface



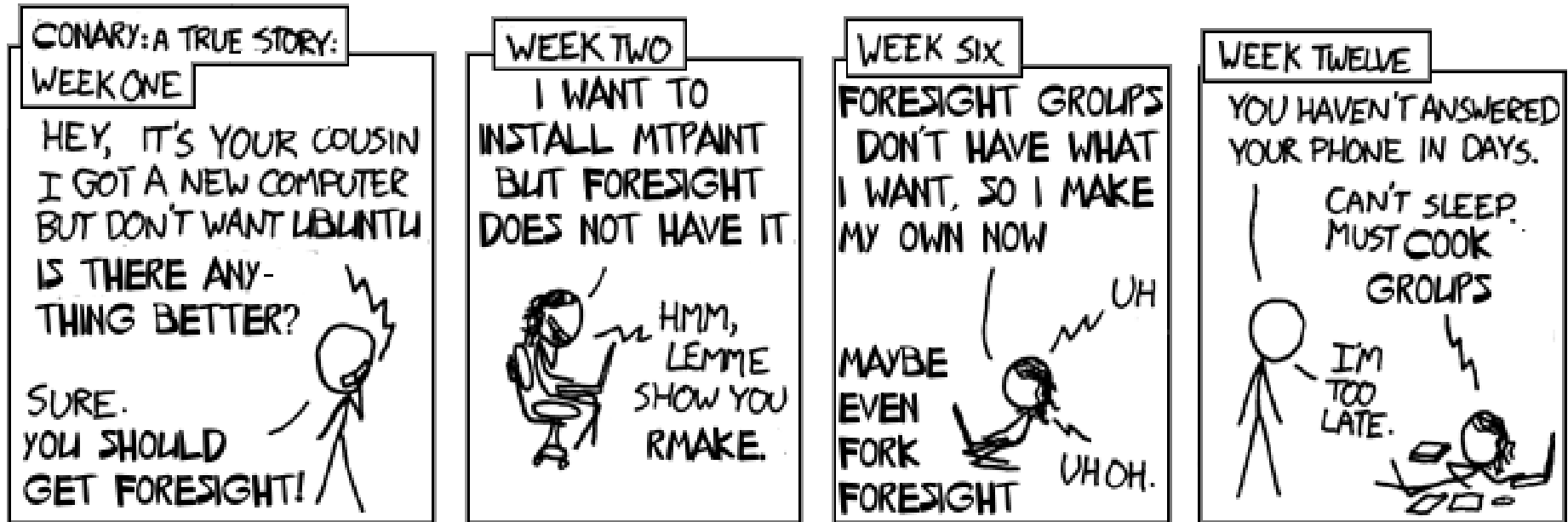
Key points!



- Keep up with all of GNOME development
- Especially translators and documenters don't want to recompile all the time
- Therefore a much lower barrier to contribute at the bleeding edge.
- eg: <http://www.ogmaciel.com/?p=424>
- Documenters can actually test stuff instead of relying on developers notes
- conary can be addictive!



Thank You! 谢谢!



PARENTS: TALK TO YOUR KIDS ABOUT CONARY. BEFORE SOMEBODY ELSE DOES.



THANKS TO XKCD: [HTTP://XKCD.COM/456/](http://xkcd.com/456/)

Foresight Linux!

Because your desktop should be cool!