



Tito

tool for managing RPM based
projects using git

Presented by
jesus m. rodriguez

What is tito?

- A CLI tool for managing RPM based projects which use git for scm
- Tags, builds, and releases your packages

Tito is born

- Originally part of Spacewalk
- Tito announced solo career in July 2009

Features

- Tag releases with incremented RPM version or release
- Auto-generate changelog from git commits
- Generate tar.gz files
- Build SRPM, RPM, and “test” rpms
- Build RPMs via “mock”
- Publish packages to Fedora build system

Core Components

- Taggers
 - Tags packages in git, updates spec file
- Builders
 - Generates tarballs, SRPMs, and RPMs
- Releasers
 - Submits RPM to a particular target

Taggers

- VersionTagger
 - Increments package version, release set to 1
- ReleaseTagger
 - Increments package release
- ForceVersionTagger
 - Updates package version with CLI supplied value

Builders

- Builder (default)
 - Builds tarballs, SRPMs, RPMs
- NoTgzBuilder
 - Uses tarballs in git
- CvsBuilder
 - Integrates with Fedora CVS to build packages

Builders (cont'd)

- UpstreamBuilder
 - “upstream” commits treated as patches
 - “downstream”
- MockBuilder
 - Uses mock to build the packages
- BrewDownloadBuilder
 - Downloads existing RPMs, useful for building yum repos

Releasers

- YumRepoReleaser
 - Updates existing yum repo with new RPM
- FedoraGitReleaser
 - Integrates with Fedora git
- CvsReleaser
 - Integrates with Fedora CVS

Releasers (cont'd)

- KojiReleaser
 - Submits SRPM to Koji
 - Useful for those running their own koji
- KojiGitReleaser
 - Submits git url to Koji
 - Useful for those running their own koji

Key Configuration Files



- rel-eng directory
 - Houses tito configuration about project
- tito.props
 - Main tito configuration file, lives in rel-eng directory
- releasers.conf
 - Defines which releasers to use
- rel-eng/packages
 - Tracks the packages

Customizable

- Create custom releasers, taggers, builders
- Most features driven by configuration file

Projects using tito



thumbslug

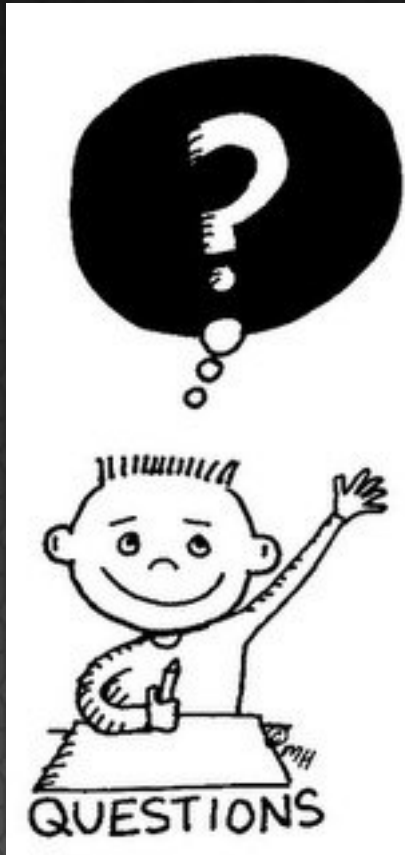
tito



Contact

- Source: <http://github.com/dgoodwin/tito>
- IRC: freenode: #tito

Demo



Contact:
jmrodri@gmail.com