

(Cobra - WinLDTP) Linux Desktop Testing Project



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Agenda

- * GUI Testing overview
- * LDTP
- * WinLDTP
- * Testing GUI over network
- * Q&A

GUI Testing

- * Black box testing
- * End user testing
- * Validating GUI objects

LDTP

- * Written in Python (LDTPv2)
- * LDTPv1 (Server in C / Client in Python)
- * Based on GNOME Accessibility stack
- * Works on Linux, Solaris, FreeBSD
- * Since October 2004
- * LGPLv2.1 license

LDTP (...)

- * Structured python
- * OO emulation
- * Java Swing, Open/Libre Office, Mozilla FF/TB
- * GNOME/GTK applications
- * KDE/QT applications (work in progress)

LDTP (...)

- * Object recognition with label
- * Object recognition with index
- * Repeated object name
- * Regular expression search

LDTP (...)

- * Window functions
- * Object type specific functions (action/verification)
- * Image capture / comparison functions
- * Keyboard / mouse simulation
- * Wnck functions

LDTP (...)

Demo

LDTP (...)

- * Application should be accessibility enabled
- * Custom widgets should be explicitly exposed

LDTP (...)

- * Useful tools: Accerciser, Visual UI Verify
- * Similar projects: dogtail, pywinauto, autoit
- * Other GUI testing projects: Sikuli

WinLDTP

- * Windows version of LDTP
- * Same API as LDTP
- * Backend is C#
- * Open Sourced with approval from VMware
- * 95% of test scripts were re-used
- * Tested on Win XP SP3 / Win 7 SP1 / Win 8

Testing GUI over network

- * Basic design of LDTP is over XML-RPC
- * Any client from remote host can execute the test
- * Java and Ruby client work are in progress

Users

- * VMware
- * Ubuntu
- * Novell
- * Intel
- * IBM
- * RedHat
- * Palm Source
- * Fujitsu

Useful links

- * Project hosted: <http://ldtp.freedesktop.org>
- * Tutorial:
<http://download.freedesktop.org/ldtp/doc/ldtp-tutorial.pdf>
- * User doc: <http://ldtp.freedesktop.org/user-doc/index.html>

Q & A

- * Contact info: nagappan at gmail dot com
- * Irc.freenode.net: #ldtp
- * Mailing list:
<http://lists.freedesktop.org/mailman/listinfo/ldtp-dev>