

Computer Working By Itself, Beautiful, Isn't It?

Roman Parparov, Bolet Consulting



Why?

- To test your GUI (and WUI)
- To import the data
- To make a movie/demo



The Tools

- `X11::GUITest`
- `X11::GUITest::record`
- `X11::protocol`
- X11 utilities
- XTest extension enabled.



Testing Application

- Complete layout control
- Debug Mode for your widgets
- Log output and catch it
- Use cut-and-paste



Testing WUI

- Partial layout control
- Gtk/Gdk diagnostic tools
- Parse the source!
- Cut and paste again



Importing Data

- Try to determine the toolkit!
- X11 basic utilities:
 - xwininfo
 - xlsatoms
 - xprop
 - xset q
 - xdpyinfo



Importing Data (II)

- Try attaching a query agent
- X11::Protocol – low level access
- Reverse engineering...
 - X11::GUITest::record
 - xev (ugh)
- Application rip




Making a Movie/Demo

- Run the recording session
 - Using `X11::GUITest::record`
 - Using `xev`
- Convert it to `X11::GUITest` script
- Set timings between calls
- Optimize trajectories



X11::GUITest Overview

- Consistent style and documentation
 - Launching the Application
 - `StartApp`
 - `WaitWindow*`
 - Getting information
 - `GetMousePos`
 - `GetWindowFromPoint`
 - `GetChildWindows`
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X11::GUITest Overview (II)

- Input functions
 - *InputFocus
 - *MouseButton
 - *Key
 - SendKeyStroke
- Window management
 - Move/ResizeWindow
 - Raise/LowerWindow



Caveats

- Window manager/Desktop Environment
- Window focus/control
- Key delays, freezes
- Selection buffers
 - PRIMARY vs. CUT_BUFFERN
 - Toolkit clipboards



Other Platforms

- MS Windows:
 - Win32::GUITest
- OS/X:
 - X11?
- (N)Curses:
 - No real widgets



Thank You

