

Windows User Emulator

Increase reliability and reduce testing time!

V Singh

Scalable Windows User Emulator

Records windows user movement and
execute later

Presenter :-)

V Singh

Agenda

Please follow following slides about How it works!






How to create simple user emulator

Download following zip file (No spyware
GCC compiled C++)

https://github.com/natashaiwscope/win_useremulator/archive/master.zip

GUI First Look

untitled.txt — Application Example

 **NONE** 192.168.0.6 D    

WinFrame "Edit" autoexec.lua "lua"

Play DEL CTRL

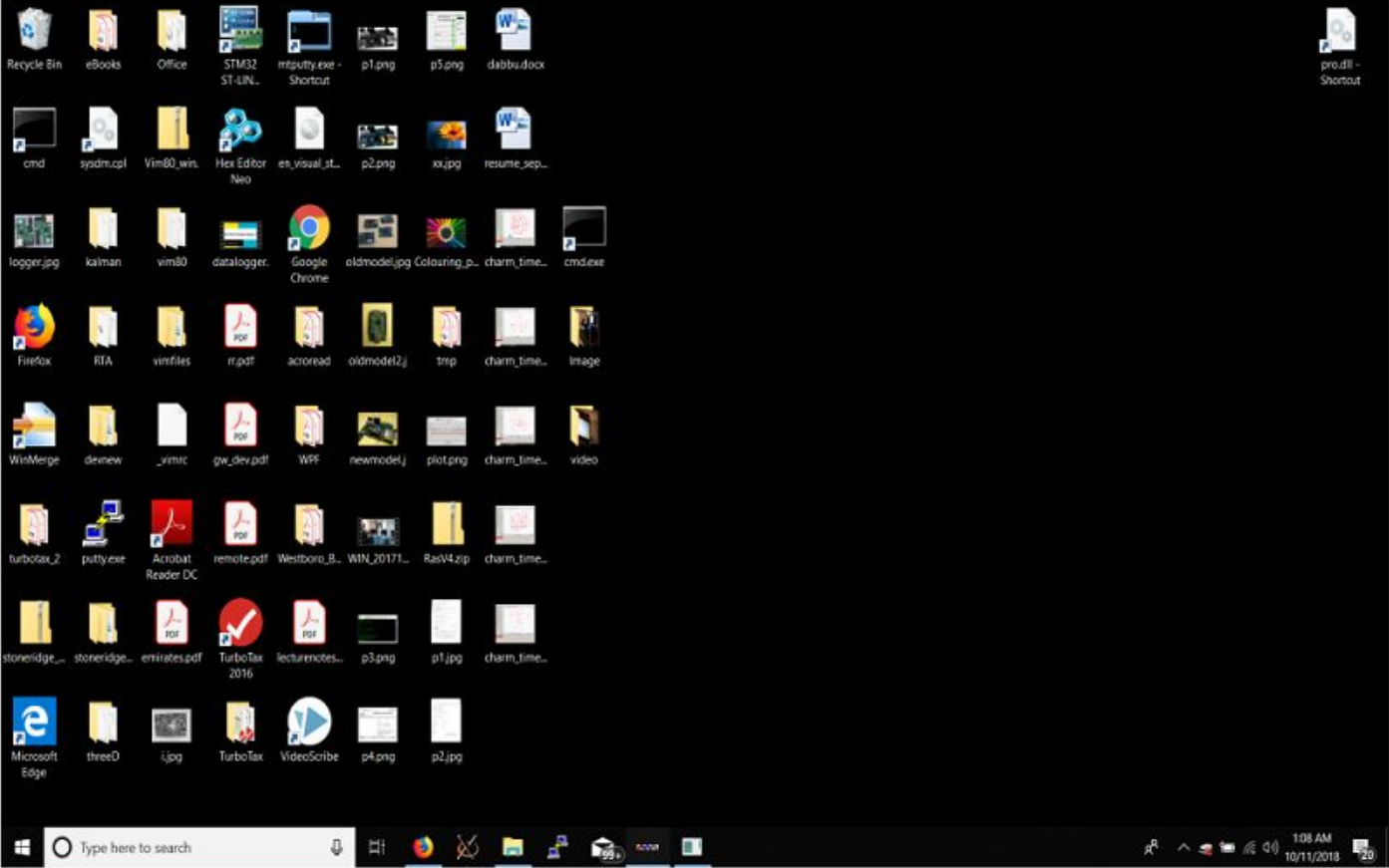
Record ALT ENTER

TP1 TP2 TP3 TP4

Templ Save

tpSize Template Create

32



Type here to search

10:08 AM 10/11/2018

Single Left Click 0 0

KEYBRD TX1

NONE

browse bat

Template Mode

Standard Windows/Web Testing

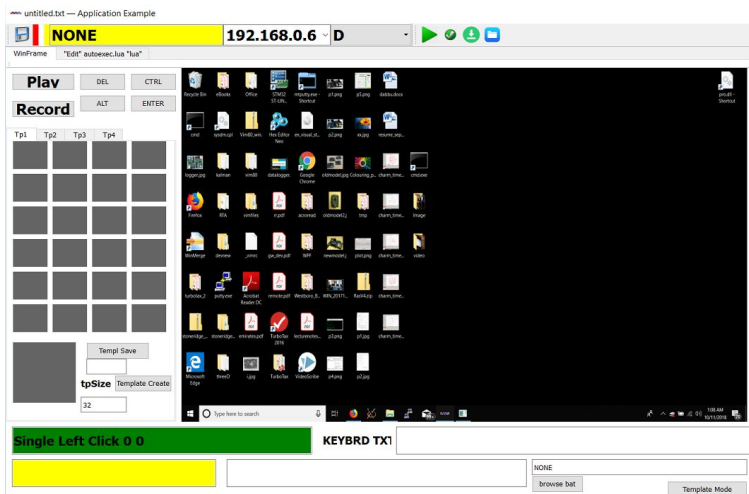
run_winclient.bat



Automatic testing for GUI

LAN/Automatic Discovery

run_winserver.bat



GUI First Look

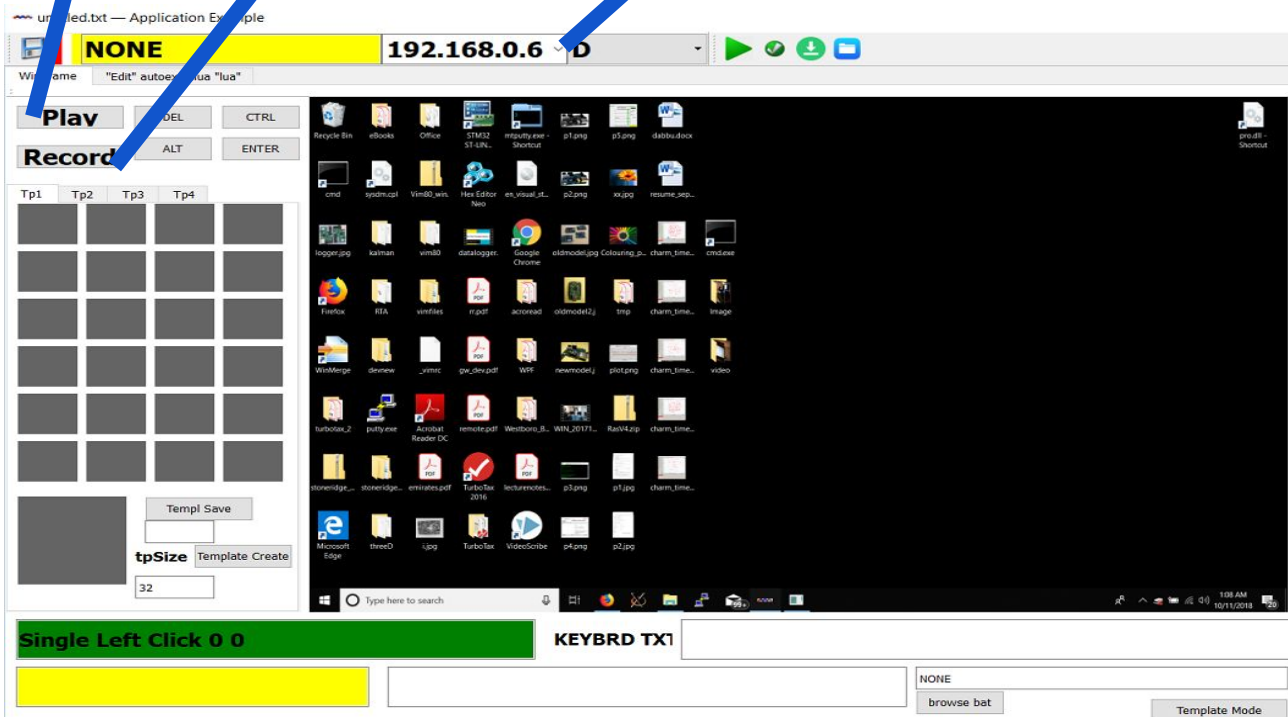
Play

Record

Automatic Discovery of
client Desktop

Records HID
Mouse/Keyboard Event
with timing

(Creates Lua
Script, may
be edited by
user later)



Super simple procedure to create automatic testing

- 1. Unzip maser.zip from GITHUB repository.**
- 2. Start Server Application on remote machine
(run_winserver.bat)**
- 3. Start Client Application on Different PC on same network
(run_winclient.bat)**
- 4. Wait until system discovers IP Address of Remote PC**
- 5. Click on Record button**
- 6. Right/Left Mouse Click like starting Firefox/Web/App as well as Keyboard and see real time on screen. Once complete click Record button again to stop recording.**
- 7. Click on Play button to replay last recorded lua script file.**

Feature Under Development

- 1. OCR driven Windows GUI testing.**
- 2. Template image search (Already implemented)**
- 3. OpenCV3.4 Image analysis for fully automated windows testing system.**

How system discovers Device on network



**Regular Unsolicited UDP
Broadcast on port 5555
From Client machine**

Mouse/Keyboard Events



Presenter :-)

V Singh