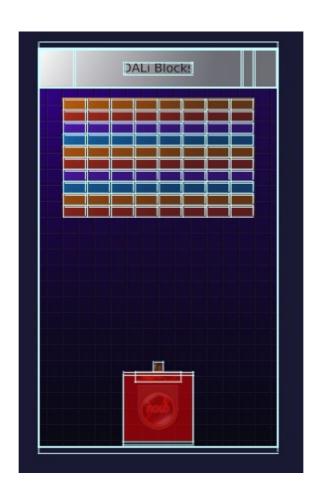
Stagehand Visual Debugger for DALi





Introduction

Stagehand is an open source tool that allows a developer to:

- Connect to a DALi application running on:
 - Tizen
 - Android
 - Ubuntu
- View a wireframe of the current scene on top of a screen shot
- Modify properties in the scene
- Monitor performance of the application
- Provides automatic updates to the latest version

Full source code is available from http://github.com/gamoeba/stagehand.git It is released under the Apacahe 2 licence.

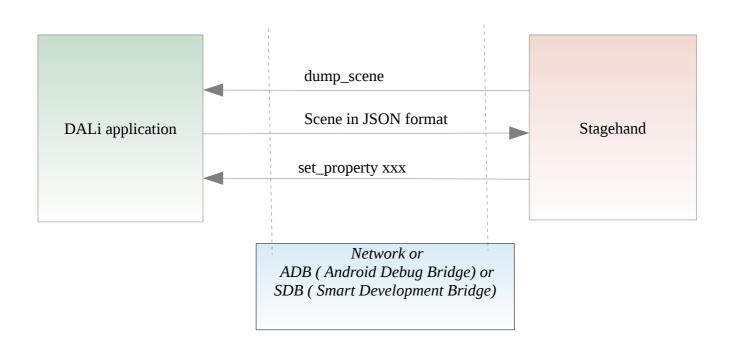
Installing StageHand on Ubuntu

http://www.gamoeba.com/stagehand/

Install both files. Start with the QT dependencies first.

How it works

Stagehand connects to DALi via the network using a TCP/IP connection.



DALi setup

Need to build Adaptor patch from (if it hasn't been merged yet): https://review.tizen.org/gerrit/#/c/25057/

Network setup

To enable network control on DALi, environment variable must be set:

```
$ export DALI_NETWORK_CONTROL=1 to enable
```

Or run the application with the variable set.

\$ DALI_NETWORK_CONTROL=1 /usr/apps/com.samsung.dali-demo/bin/dali-demo

Check what network port the application is using. It will be from (3031 onwards).

If running DALi on desktop, just type netstat -tlnp. On Tizen log into the device and run netstat. E.g.

- \$ su
- \$ netstat -tlpn

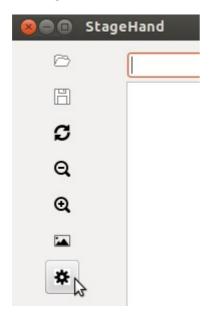


home-screen using port 3031

lock screen using port 3032

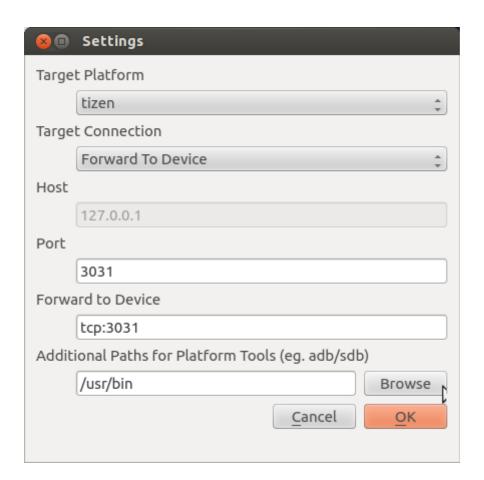
Connecting with Stagehand

Click the settings icon shown below



Connect to DALi running on Tizen

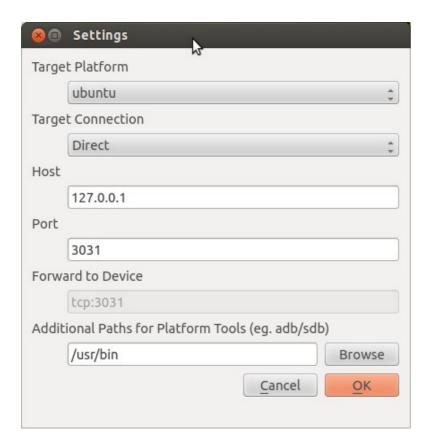
Here we are connecting to a device running SDB



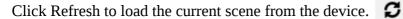
Connect to DALi running on Android



Connect to DALi running on Desktop (Ubuntu)



Using Stagehand

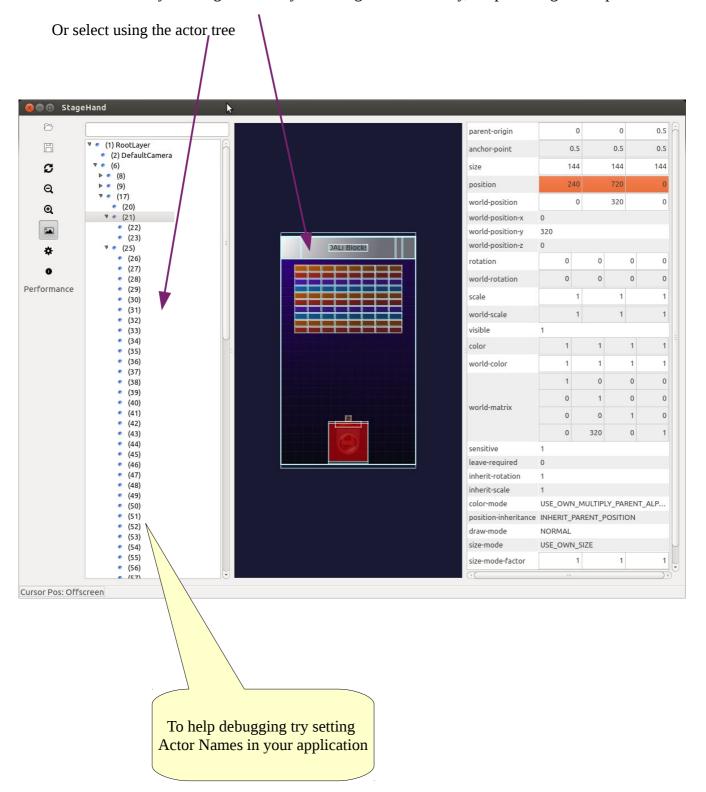




Click screen shot to get overlay current screen



Select an actor by clicking on it. To cycle through actor heirachy, keep clicking same spot.



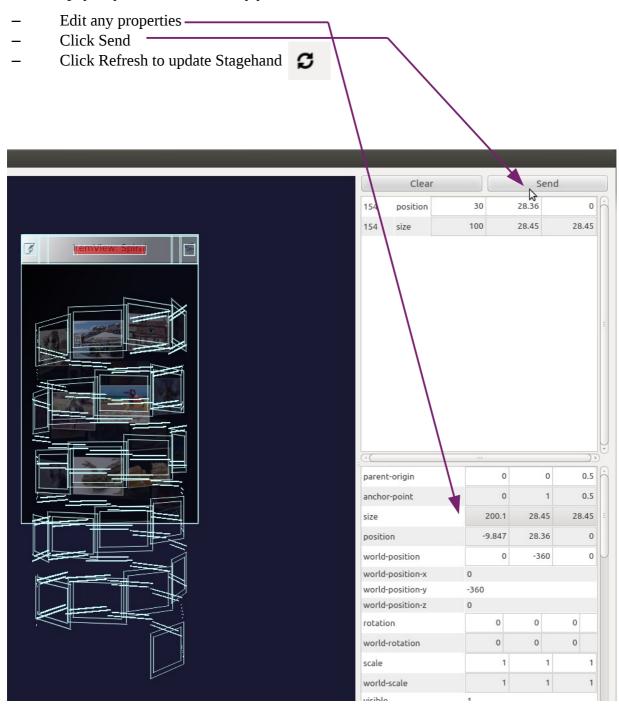
Saving Scene

This will create a zip file with the JSON scene and a screen grab from the device.

Loading a Scene

Zooming in and out Q Q

Modifiy properties in the application



Performance monitoring (Beta Feature)

To enable performance option. Edit

~/.stagehand/stagehand.ini

Set perfmode=on

Restart application. Click performance

Performance

0ms 16.6 ms



Trouble shooting

You can manually check the network is enabled on the DALi application using netcat. In the example below we are connecting to a Tizen device using SDB port forwarding. After running nc localhost 3031 we type **help**

Tizen smack

If you can't connect to a DALi application, but using netstat you can see a port is open. Check the smack log for errors:

```
tail -f -n 10 /var/log/audit/audit.log | grep 'internet'
```

If it is being blocked, you temporarily enable it by editting:

```
/etc/smack/accesses2.d/ your-app-name then add: system::user internet .....app-name rw
```

then restart the app.