



Snapping Modern Desktop Apps: Inkscape

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History of Containers









Kernel wants to help

- Expand namespaces
- CGroups
- Linux Containers (LXC)



Docker provided BYOD



docker





Peripherals: Lots of Interfaces

- Who can access the printer?
- Who can use the GPS?
- Does every app really need background processes?
- How do applications work together? (*cut-and-paste, open a URI, etc.*)



Ubuntu Phone: Oversimplified

- System image based install
- Applications confined and managed
- Installed via a format called “Click”



Click Security (*Container?*)

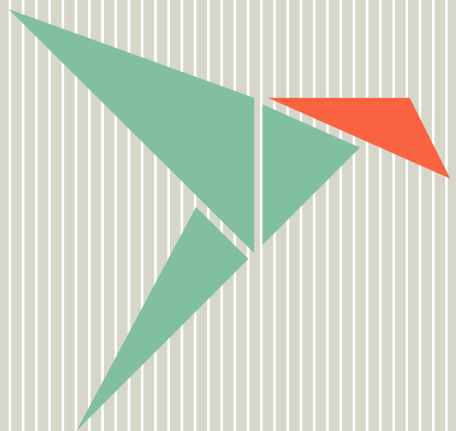
- Linux Security Module: AppArmor
- seccomp
- CGroups
- Process Namespaces

IoT and Server People:



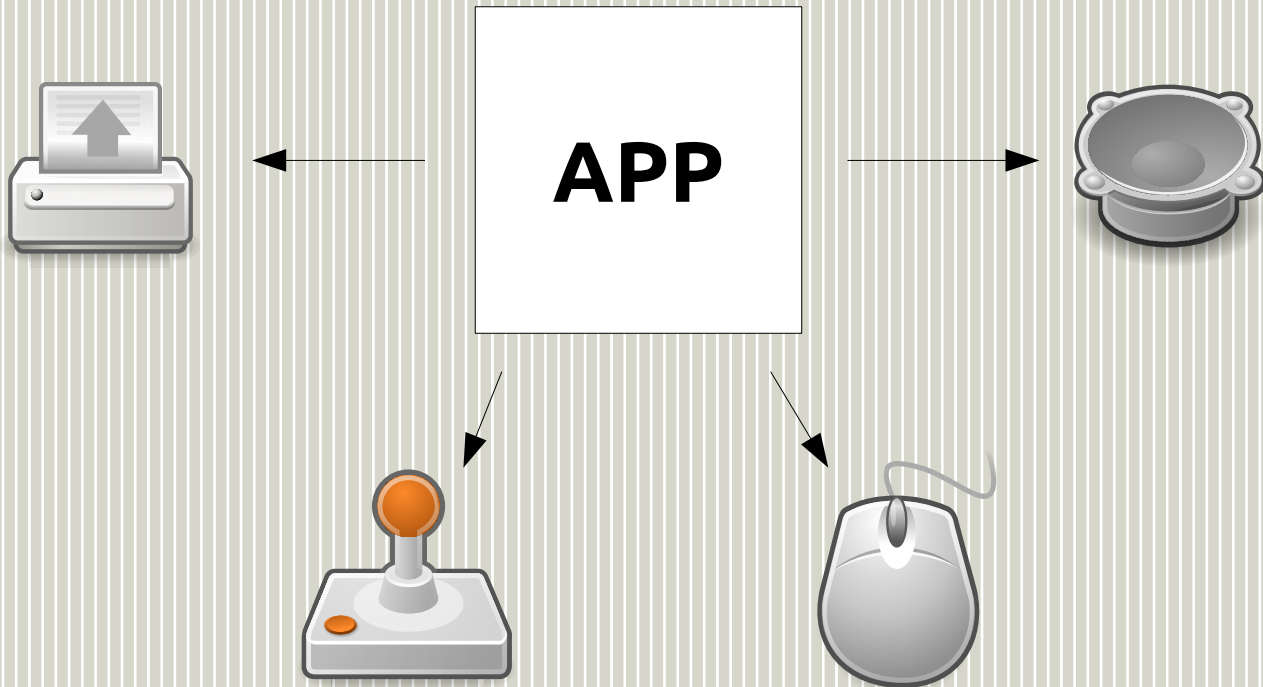
**KEEP
CALM
AND
GIVE ME
THE PRESENTS**

Introducing: SNAPPY



snappy

Snap Interfaces




```
graph LR; A[Inkscape Source] --> B[snapcraft .yaml]; B --> C[Inkscape Snap]
```

**Inkscape
Source**

**snapcraft
.yaml**

**Inkscape
Snap**



Declaration

Build Instructions

Application Definition

name: photoviewer

version: 0.1

vendor: Ted Gould <ted@gould.cx>

summary: Photoviewer from Flickr tags

binaries:

photoviewer:

exec: qmlscene main.qml --

caps:

- desktop
- network-client

parts:

qml:

plugin: qml

photoviewer:

plugin: copy

files:

main.qml: main.qml

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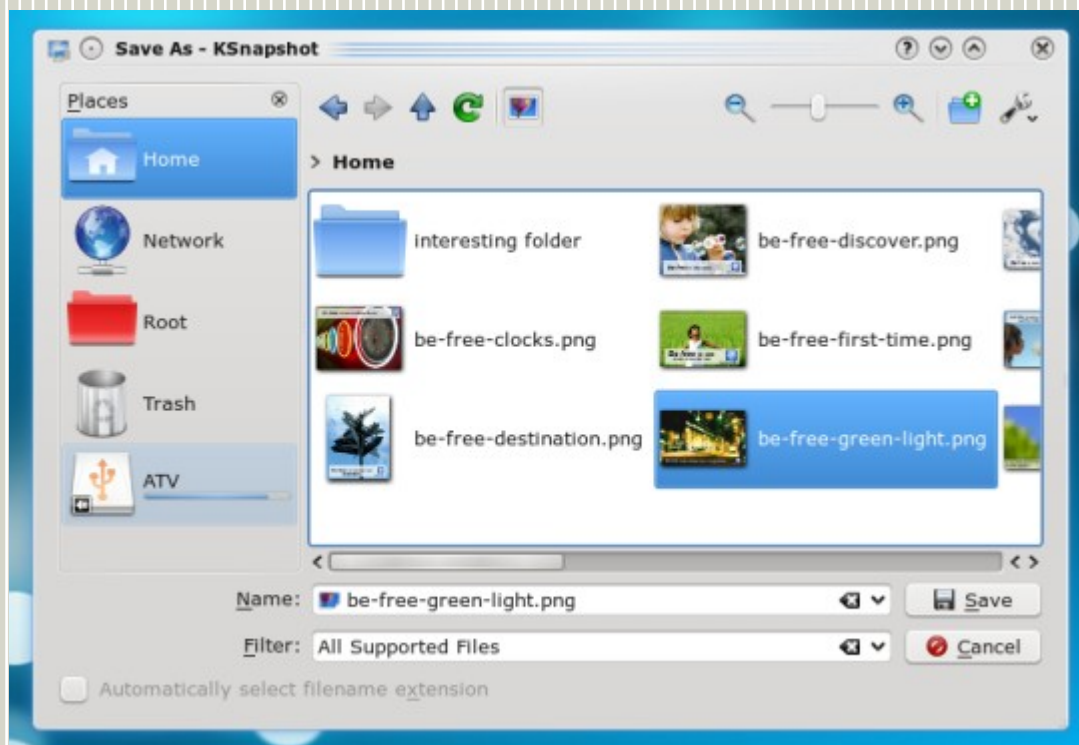
photoviewer:

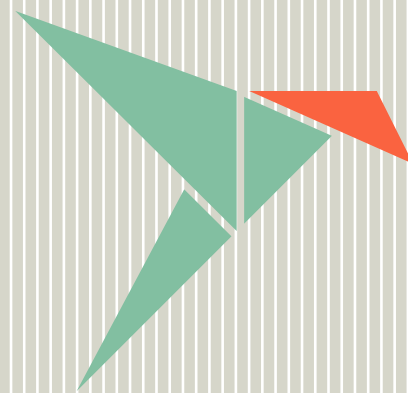
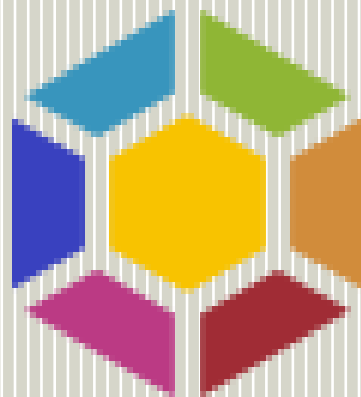
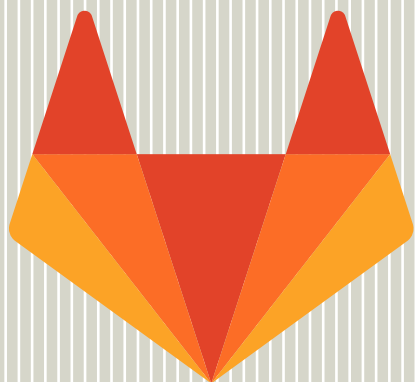
plugin: copy

files:

main.qml: main.qml

Portals





Why confine applications?

- Fun?
- Technical Challenge?
- Make things difficult?
- Geek Sport?

Fastest Growing Consumer OSes



Why confine applications?

- Protect from Malicious apps
- Provide stable upgrades
- Meet future user's expectations



Questions?

<http://gould.cx/ted/presentations>

