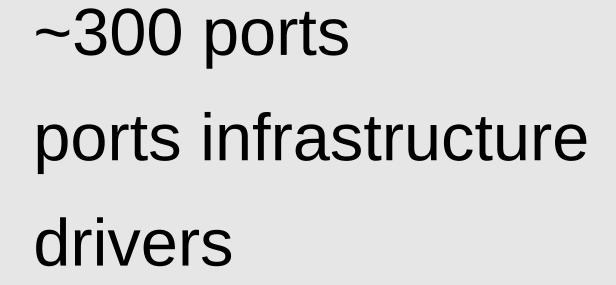
FreeBSD graphics

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team the graphics stack challenges future

graphics team

small team use github multiple repositories github.com/FreeBSDDesktop



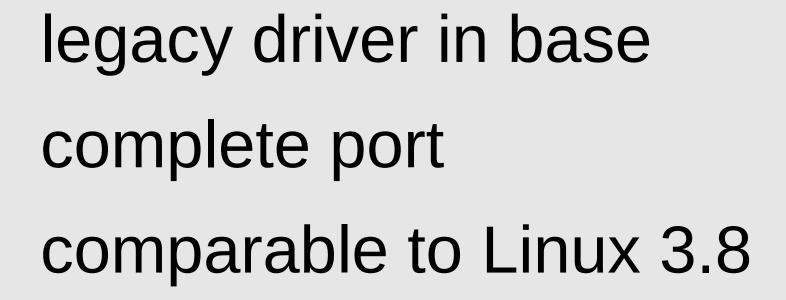
core libraries

X servers

wayland

applications

drivers



planned removal in FreeBSD 13 replaced by drm-legacy-kmod avoid conflicting drivers

new drivers in ports uses Linux kpi (lkpi) amd64 tier1 i386 and ppc64 secondary

multiple versions meta port: graphics/drm-kmod available in FreeBSD 11.2 and 12.0

libraries

mesa – OpenGL libdrm xorg libraries

Xserver

out of date ddx drivers modesetting

focus upstream support in default packages up to date

sway available evdev support needed in kernel needs more testing

getting started

install FreeBSD

```
# pkg install xorg
```

- # pkg install drm-kmod
 follow the instructions
- \$ startx

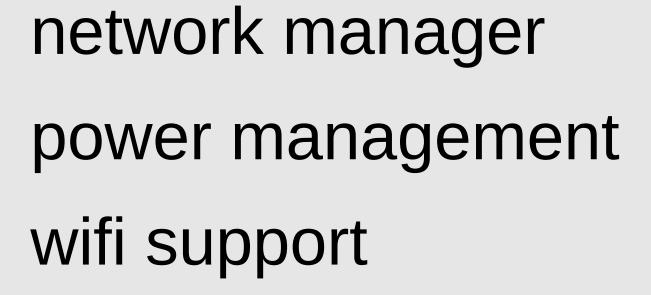
challenges



testing
build time
developer bandwidth

future

input devices drm-legacy autoloading more architectures



summary

FreeBSD graphics

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