

# Not just Linux: BSD, Solaris et al.

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whoami

**Why not**

**Linux?**

# Licensing

Kernel is GPLv2 (only)

Must release source

# Portability

Linux is portable but...

Not all platforms

supported

# Hardware

Some distros explicitly  
target architectures

# Feature sets

ZFS

Dtrace

Zones

Others?

**Kernels**

**vs**

**Userland**

**(mix and match)**





# FreeBSD

Generic desktop/server

Ports package management

Different kernel and (optionally) userland

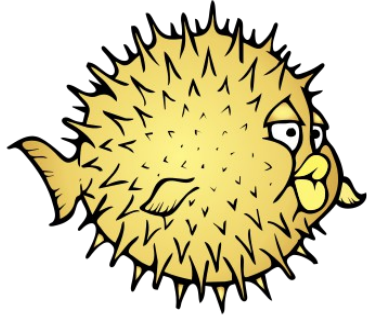
BSD licence



Focus on portability

Three tiers: Focus, Organic, Life Support

Great for small embedded devices



***Open*BSD**

Three priorities: Security, Security, Security

Pf

OpenSSH



# OpenSolaris

SunOS → Solaris → OpenSolaris

Strong SPARC support

ZFS, Dtrace, Zones

CDDL licence (problems)

Oracle buyout → Goodbye OpenSolaris

Hello OpenIndiana (and SmartOS)



# OS X

Based loosely on FreeBSD

Hybrid kernel

Apple devices only (including VM)

Hackintosh

'Free' if you own Apple products

Parts are open source (BSD-like)



# Plan 9

Distributed o/s from Bell Labs  
Everything is a file (no, really)  
GPLv2 now

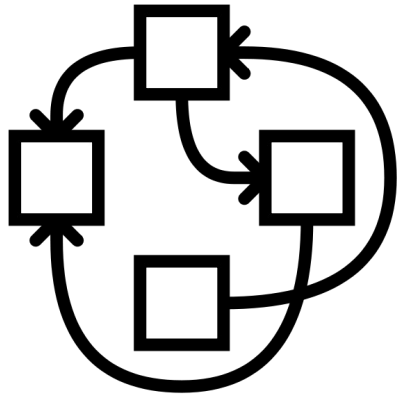


# MINIX

Teaching o/s concepts

Microkernel

AST vs Torvalds



# Hurd

Mach kernel by GNU

Hurd servers on top

Slow development



# Questions?

[www.yanone.de](http://www.yanone.de)

[tinyurl.com/slide-design-dev](http://tinyurl.com/slide-design-dev)