Porting Chromium to FreeBSD

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Current State

- First in ports end of 2010
- Chromium v92 in ports
- Chromium v93 worked on
Upstreaming

- Not accepting patches for unsupported platforms
Version Policy

• New version every 6 weeks
• Moving to 4 week schedule with v94
• New version obsoletes all old versions
Patches

- Nearly 1k patches
- Mostly applying `|| defined(OS_BSD)` to Linux-specific code
- Separating OS-specific stuff
Patches

• FreeBSD-specific
  – Process handles and metrics
  – System information
  – HID connections
• Support for sndio from OpenBSD
Patches

- Many in-tree versions of shared libraries
- Trying to use the libraries from ports instead
Python

● Defaults to python 3.x since v92
● Parts of the build still need python 2.7
Capsicum

- PoC for really old Chromium version
- Sandbox hooks for FreeBSD in v92 port
Wish List

- Add proper Capsicum support
- Fix the existing unit tests
- Enable Wayland support
- Maybe add support for WebUSB and WebBluetooth
Contribution

- https://github.com/freebsd/chromium
- freebsd-chromium@FreeBSD.org