xPad

Building Simple Tablet OS with Gtk/WebKit
Patch first!

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xPad

Building Simple Tablet OS with Gtk/WebKit
Ping-Hsun Chen
penk@ullab.org
twitter / plurk: @penk
penk: "Web is the new graphic library!"

阿怪: "你究竟對 web 有多執著阿.."
Welcome to xPUD

System Information

WiFi: Online dlink - 96%
87% Charging
21:30
Dec 7 (Mon)

Quick Action

WiFi: setup wireless connection

Power Off: turn off this machine
階段目標

• mkxpwd – 系統自動建置懶人包
• rosetta.js – 多國語言翻譯架構
• plate UI – web-based 使用介面
• plate.js – 瀏覽器桌面框架
Welcome to xPUD
System Information

A Firefox OS with an App Store.

The desktop has never been this easy -- Get your favorite web browser with a simple web-based interface on top

Download 0.9.2

256MB RAM and 64MB free disk required.

1. Easy and Fast
Power on, get online. Start surfing or playing music and movies within seconds.

2. Thin and Rich
Not just the web, also access your data and run your favorite native applications.

3. Get More Apps
Extend functionality with plugins, the only limit is your imagination!

http://xpud.org
強而有力的一個
Powerpoint
崩潰指數: 67%

交織細膩的一個
Dreamweaver
崩潰指數: 89%
- Easily customizable
- Lightweight and effective
- Cross platform support
- Works on x86/ARM

I code in C, but a web developer in mind.
Touch-enhanced UI

- No mouseover event
- Finger-friendly control
- Every pixel counts!
Google Calendar

Organize your schedule and share events with friends
With Google's free online calendar, it's easy to keep track of life's important events all in one place.

Share your schedule
Let your family and friends see your calendar, and view schedules that others have shared.

Sign in to Google Calendar with your

Google Account

Email: [blank]
Password: [blank]

Stay signed in
Sign in

Can't access your account?

New to Google Calendar?
It's easy to start.

Create an account »
FloatingBar
Virtual Keyboard

- Need to combine input method
- Better keyboard layout
- And auto hide/show
fvkbd-gtk
fvkbd-gtk
Browser

• Port to WebKit
• Kinetic scrolling
• Double-tab zooming
• And auto hide/show
Feelingless UI

- Touch-enhanced “plate” UI
- CJK-friendly virtual keyboard
- “TouchWeb” browser
Deal the real problem

- According to the bug tracker/forum
  - Windows installer
  - Install software plugin
  - Keep persistent session
Deal the real problem
The mozplugger implementation

- NPAPI plugin
- “swallow” application into <embed>
- Can’t handle exit/open window
- Need to listen DESTROY/MAP notify
- ..only window manager can do that
TableWare

writing window manager in html/css/javascript
TableWare

- A WebKit based-browser with JS/D-Bus bridge patch from Movial
- NPAPI plugin to create a X Window “hole”
- XCB-based wm mapping events to JSC engine through D-Bus
- Writing decorator in HTML/CSS!
What Next?

- GObject DOM binding
- jQuery Mobile
- Comet Server (who knows?)
Thanks!