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CL-Growl

A Common Lisp interface to the GrowlTalk protocol

Patrick Stein / TC Lisp Users Group / 2010-04-26
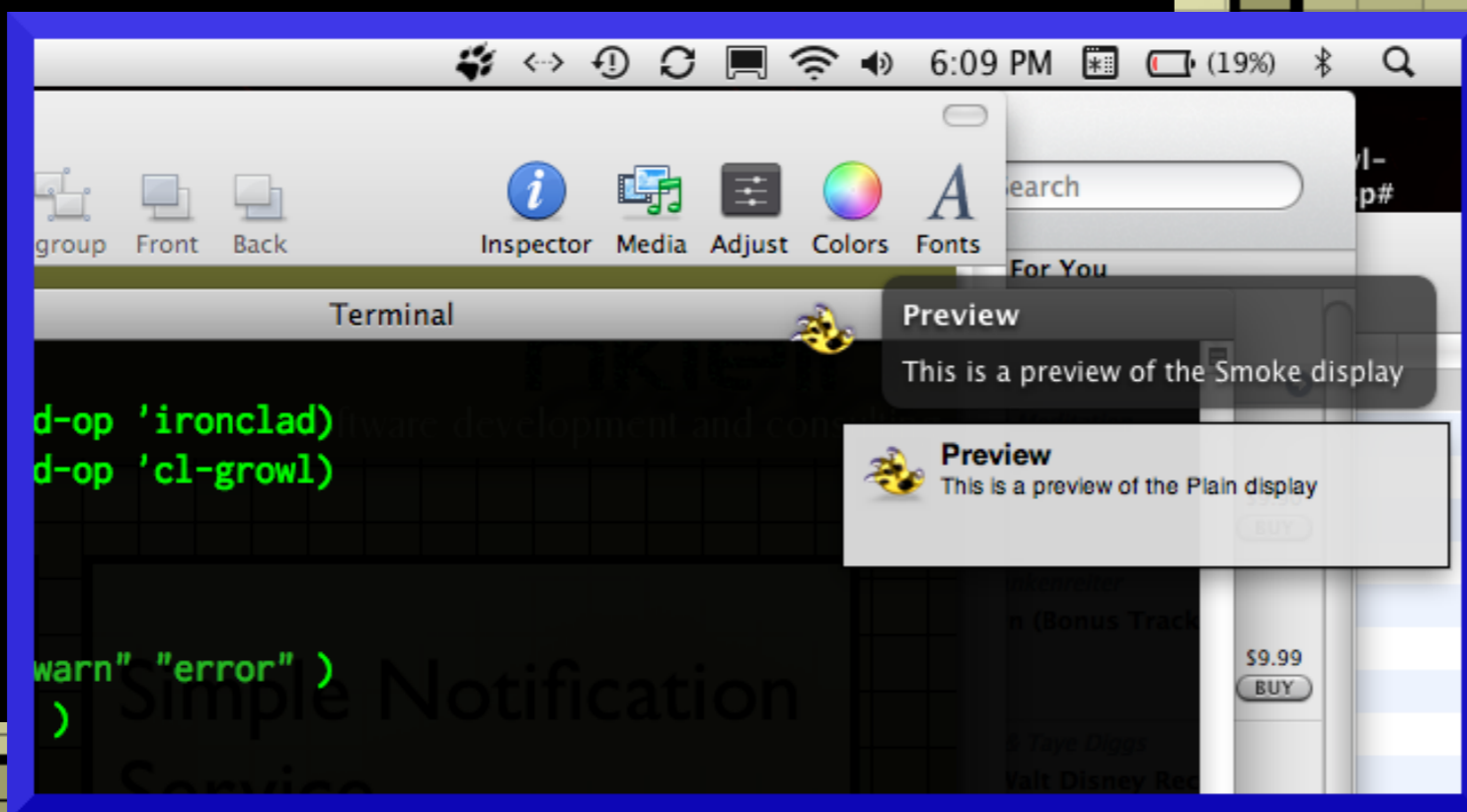
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Chax:
    "Scoot is online!"

GrowlMail:
    "Message from RPG:
    Lisp meeting tonight."

Simple Notification Service

Originally a Cocoa framework, then added GrowlTalk

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Chax is an iChat enhancement
Lots of other apps have direct or add-on support for Growl: Safari, Firefox, Adium, Skype,
StuffIt, SuperDuper, and now your Lisp app!

GrowlTalk Protocol

- Very Simple, One-Way Protocol:

  - `Register`

  - `Notify`

- Authentication with:

  - `checksum( message + password )`

- Optionally, encrypt whole message

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Register declares the types of notifications you will send and lets you start configuring the behavior on the receiving end
I didn't implement the encryption part, so keep it local or on trusted nets or just deal with it.

```lisp
;;; need IronClad for SHA-256, can use
;;; IronClad or MD5 for MD5 checksum
;;; can use "none" for no checksum if local

(growl:register
    :app "Lambda Fun"
    :enabled '( "info" "warn" "error" )
    :disabled '( "debug" )
    :host "localhost"
    :checksum-mode :sha256
    :password "growl-password")
```

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Our application "Lambda Fun" is going to produce four types of messages: info, warn, error, and debug. By default, users will not see debug messages.

```lisp
;;; Prepare some defaults
(setf growl:*growl-default-app* "Lambda Fun"
      growl:*growl-default-host* "localhost"
      growl:*growl-default-password* "growl-password"
      growl:*growl-default-notification* "info")

;;; Send some messages
(growl:notify "Here is a message.")
(growl:notify "This message has a title"
              :title "You will note:")
(growl:notify "This message sticks"
              :sticky t)
(growl:notify "This is an error!!"
              :notification "error")
```

Can use some specials in place of many keyword arguments.

More Soon...

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software development and consulting

- GrowlTalk being replaced with GNTP (Growl Network Transport Protocol)

- I have `register` working from Lisp, but still have to parse the response

- GNTP works with Growl for Windows but not yet on Mac OS X

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Discovered GrowlTalk was being obsoleted when I announced this library.
Working on the new protocol now.
It uses "Keyword: Value<CR><LF>" headers. Feh.