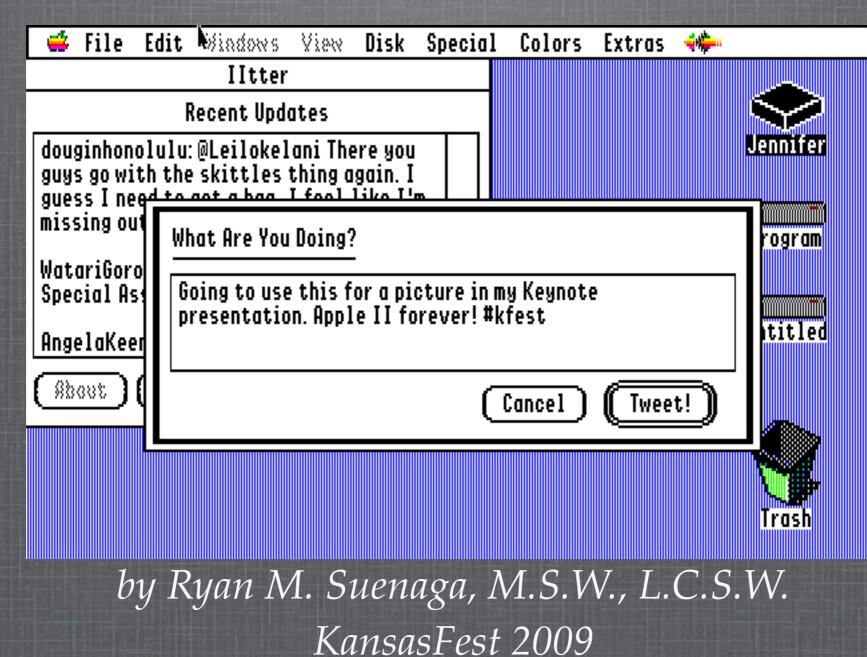
THE UNSUCKABLES

How Web APIs and Mobile Devices are Shaping the Future of Apple IIGs TCP/IP Programming (and Other Topics)



Rockhurst University * July 23, 2009

A FLASHBACK TO KANSASFEST 2008

The (up to first 255 characters of) text currently on your clipboard is:

http://cgi.ebay.com/Apple-II-Computer-Analog-Joystick-Controller-IBM-PC_W0QQitem Z110271927887QQcmdZViewItem?hash=item110271927887

Convert to a shorter URL (y/n)? y Resolving bit.ly... Connecting to bit.ly Sending long URL to bit.ly Receiving short URL from bit.ly Ending connect with bit.ly Parsing short URL Findreturn is 270 receivedsize-findreturn is Your short URL is:

20

http://bit.ly/bcEeM

Press return to exit

BIT.LY: THE URL SHORTENER WITH AN API

- As URLs have gotten longer, there's been a need to shorten them.
- Several similar sites exist (tinyurl.com and snipurl.com for starters).
- Bit.ly shortens and has an A(pplication) P (rogrammer) I(nterface)

WHAT'S AN API?

- Besides what it stands for (Application Programmer Interface)
- Wikipedia definition (July 6, 2009):
 - In computer science, an application programming interface (API) is an interface defining the ways by which an application program may request services from libraries and/or operating systems. An API determines the vocabulary and calling conventions the programmer should employ to use the services. It may include specifications for routines, data structures, object classes and protocols used to communicate between the requesting software and the library.

IN NON-GEEK, PLEASE?

- An API tells a coder how to work with a service.
- For Web services, it documents what kind of data needs to be sent to a server in what format and what to expect in return.
- Bit.ly provided a super simple API (since deprecated, but Bitly CDA still works).

FROM THE WEB

- If you were using the old Bit.ly API, to shorten a URL (say http://athletic-diabetic.com/), enter this in your Web browser:
 - http://bit.ly/api?url=http:// athletic-diabetic.com/
- Bit.ly returns:
 - http://bit.ly/1D4ZCc

FROM THE WEB, PART 2.0

- If you want to go in reverse (lengthen a Bit.ly shortened URL):
 - http://bit.ly/resolve?url=http:// bit.ly/1D4ZCc
- Bit.ly will return the original URL of:
 - http://athletic-diabetic.com/

ANOTHER API EXAMPLE

- Twitter is another Web site with an API.
- IItter, which is finally being released today, is based on the Twitter API.
- Interestingly, Twitter has a "mobile" Web site and a "standard" Web site.
- In most cases, "mobile" Web sites are more appropriate for the Apple IIGS.

MORE MEAT, LESS FLUFF

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xoizen @rsuenaga everybody loved japane	se stuff. my ex loves japanese stuff even the	ough she aint japanese. my rate for seei	ing my ex is 0! about 11 hours ago	
ParkRat @rsuenaga Same but definitely no	t same. about 11 hours ago			
ParkRat @rsuenaga I once baked cookies	using the same concept. Even our dog woul	dn't eat those cookies. about 11 hours ago		
champuru @rsuenaga That's not cheating.	That's being practical. :) about 11 hours ago			
ParkRat @rsuenaga I don't think it was for n	evenge. I think it was for sport. about 11 hours	ago		
ParkRat RT @jeffkang: @sishizaki it's @P	arkRat's imagination! - Not me! @rsuenage	a started singing and put you in it! about 1	11 hours ago	
ParkRat RT @jeffkang: @rsuenaga @Park	Rat is having scary thoughts - SCARY doe	sn't even come close to what I would de	scribe them to be. about 11 hours ago	
ParkRat @rsuenaga There is NO fashion is	the show you put in my head at all. about 11	hours ago		
jeffkang @rsuenaga @ParkRat is having s	cary thoughts about 11 hours ago			-
ParkRat @rsuenaga Actually, I can kind of s	see @jeffkang coaching cheerleaders for se	ome reason. But dressed as one? Yipes	about 11 hours ago	
jeffkang @rsuenaga I never wore a cheerle	ader uniform! about 11 hours ago			
typezero3 Nite all & btw @rsuenaga we did	n't hear any loud boom sounds but hey may	be we missed it somehow :) aloha about	11 hours ago	
jeffkang @ParkRat @rsuenaga not the ima	ges i needed as i'm falling asleep! Ewww!	bout 11 hours ago		
ParkRat @rsuenaga Now @jeffkang is weat	aring a cheerleader uniform. It is not pretty.	He needs @lenahanson to take care of	those fuzzy legs. about 11 hours ago	
champuru @rsuenaga Congratulations on g	going beta. Better to be accurate than fast.	De-bugging is the pits, eh? about 11 hours	ago	
ParkRat @rsuenaga Oh boy. A picture of @	jeffkang in Spandex just flashed through m	y head. How wonderful of you for that.	about 11 hours ago	
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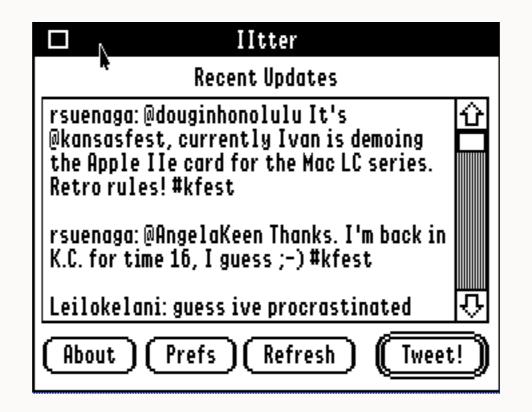
FLUFF, NICE BUT TOUGH TO DEAL WITH

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IITTER

Closer to the mobile site than the full version



A VERY SIMPLE API

- Let's say, "I want to get a stock quote."
- I use http://finance.yahoo.com/ to get a quote for Apple, Inc. (AAPL)
- Wow, that's pretty cool...
- There's also an API that will return a plain old fashioned CSV file of stock values.

AS SIMPLE AS IT GETS

- http://finance.yahoo.com/d/quotes.csv?s=
 followed by stock ticker symbol(s) separated by +
 then &f= followed by special tag(s)
- For example:
 - http://finance.yahoo.com/d/ quotes.csv?s=AAPL&f=l1
- Returns a CSV (comma separated values) result of:

157.86

STOCK QUOTE BY YAHOO! CDA

- Classic Desk Accessory to get a single stock quote using Yahoo!'s Web service
- Public domain, including source code
- Nothing special to look at, but...
- ...includes source to show how to check if Marinetti is installed, if a link is up, resolve a domain name, open a connection, send data, receive data, and close a port.
- Meaning I never want to hear from an aspiring coder again that they don't know how to do these things with Marinetti.

STOCK QUOTE CDA 1.0

Stock Quote CDA 1.0 using Yahoo! Finance

Contains libraries from ORCA Pascal, Copyright 1991-2009, Byte Works Inc. Released at KansasFest 2009 Originally written by Ryan M. Suenaga, M.S.W., L.C.S.W. Public domain, do with it what you want!

Enter stock ticker for a guote: aapl Resolving download.finance.yahoo.com... Connecting to download.finance.yahoo.com Sending data to download.finance.yahoo.com Receiving guote from download.finance.yahoo.com Ending connect with download.finance.yahoo.com Parsing the guote Your stock guote is: 157.86

Press return to exit

MORE WEB APIS

- A quick Google search will find lots of different Web APIs.
- Here's some quick ideas:
 - Weather, horoscope, IP data, Brightkite and other location services, thesaurus, dictionary... and more.
- Look at http://www.trynt.com/apis or http://www.programmableweb.com/apis/ directory

SOME MORE THINGS

- A2Unplugged awards the geocaching prize to Tony Diaz
- A2Unplugged comes off hiatus effective Saturday
- A2Unplugged sponsors Krispy KremeFest tonight!
- Blatant plugs:
 - Uncommon-Cents.net
 - Athletic-Diabetic.com
 - A2Unplugged.com
 - RyansAppleSoftware.com

ONE LAST THING

- A long time ago, at a college not far away...
- ...not only was there a TCP/IP stack named
 Marinetti, there was a user FAQ that went with it...
- ...and then disappeared.
- Today, the Marinetti 3.0 FAQ for users is officially being announced as back.
- Soon at fine Apple II Web sites everywhere.