

Web Page BroadCast

User's Manual

Plucker Palm application web page viewer

JPluck desktop web page converter

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For more information: www.tribeam.com

http://jpluck.sourceforge.net

http://www.plkr.org/

Introduction

Q. What do I use this for?

A. A way for teachers to provide selected web pages to students on their Palms.

Q. What's good about it?

A. 1) It's easy to use.

- 2) It gives teachers control by selecting web content to provide to students.
- 3) It provides the students with a graphics capable web page viewer.
- 4) The students are focused on the web content you want them to have.

Q. Can I broadcast the web pages to the student's Palms using TriBeam's Broadcast?

A. Absolutely! That's the idea: Select a web page and give it to all the students at once!.

Q. Can it display pictures?

A. Yes, it can. It's up to the teacher. You can choose to display images or just text.

Q. What's the tradeoff?

A. Images require more memory, so the files get larger (more on this later).

Q. What's the name of the desktop program?

A. The teacher uses a program called *JPluck X*. This is the program that extracts the web site content and converts it to a format compatible with the Palm viewer.

Q. What's the name of the Palm application program?

A. The students use a program called *Plucker* on their Palms. This is the program to view the web site content—like a web browser.

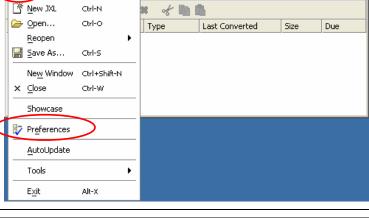
Q. Okay, where'd the name come from?

A. The idea is that web site content is "plucked" and converted to be viewed on Palms.

Using JPluck on the Desktop (for the teacher)

Start JPluck. Since you've installed JPluck on your computer, you should see an icon like this on your desktop: And when it starts, it should look like <Untitled> - JPluck X this. File Document Help Category Last Converted Due If you installed JPluck, you should 💹 <Untitled> - JPluck X have already selected a destination File Document Help directory. New JXL Ctrl-N of 1 € Ctrl-O Last Converted Reopen

Click File→Preferences



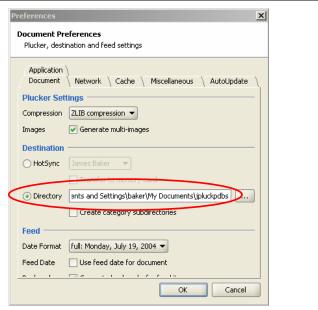
In the Preferences screen you should see a Destination Directory Path. This is where the converted web pages (pdb files) will be stored on your desktop computer. These are the files you broadcast to the Palms.

Make a note of this directory.

There's more information about creating the Destination Directory in the Installation Manual.

In the example here we named the folder *jpluckpdbs* and it is in *My Documents*.

Click OK

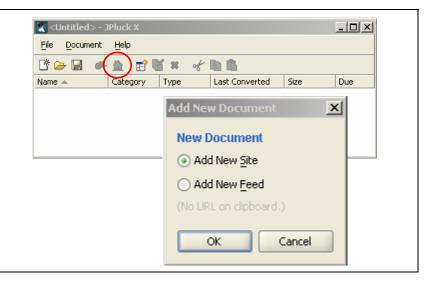


Converting a web page:

Click the *Add* button

Select Add New Site

Click OK



Give the Site a Name (USAtoday)

Fill in the URL, or copy and paste.

NOTE: you must include the complete URL, including the *http://* and the *www*.

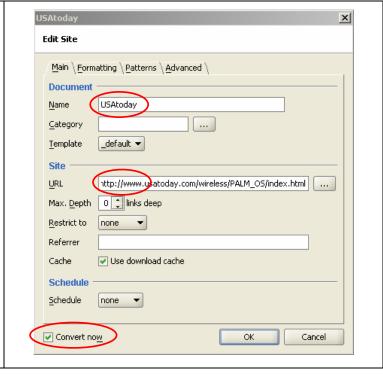
Check *Convert now* (at the bottom)

Click OK

You'll get a message when the conversion is complete. The USAtoday.pdb file is created and saved in the Destination Directory specified in the Preferences menu.

Click Close

Note: If you are viewing a web site on your desktop browser, cut and paste is a great way to copy the URL.

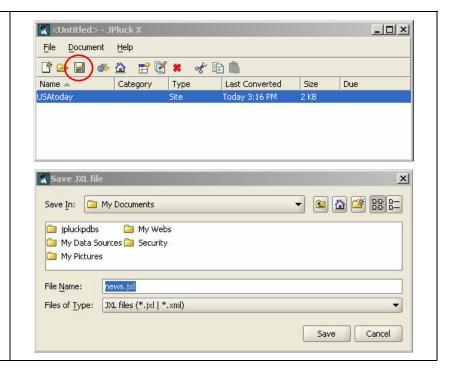


You will see the information about the conversion.

Click the *Save* button.

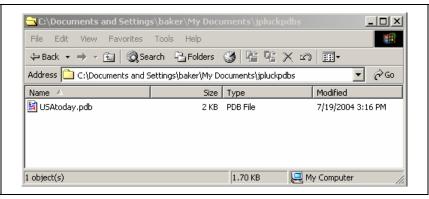
Choose a location and give the file a name (news.jxl).

This saves the *.jxl* file. More about this later.



The file to BroadCast to the Palms (USAtoday.pdb) is in the Destination Directory specified in the Preferences menu.

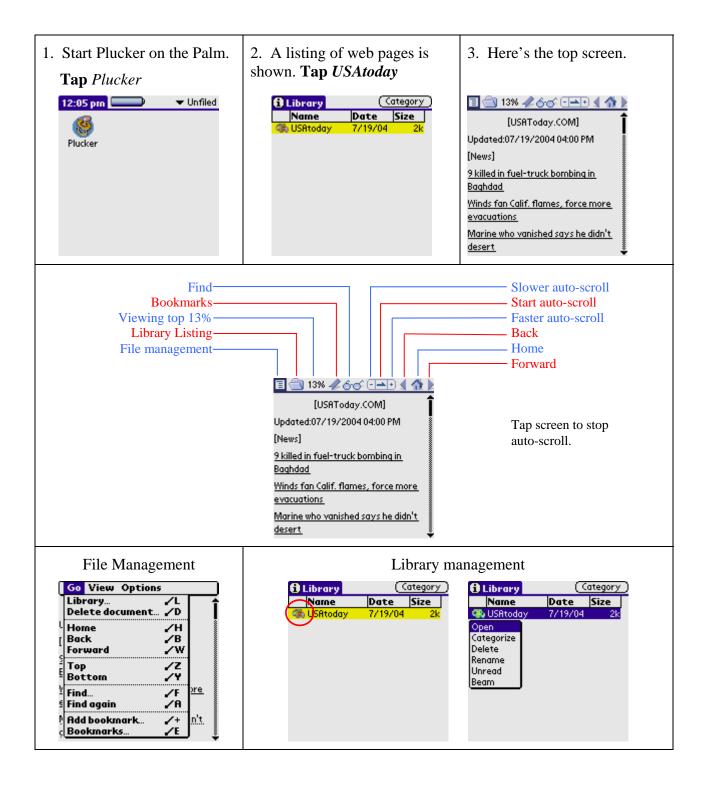
(We called it *jpluckpdbs* in *My Documents*)



Use TriBeam's BroadCast feature to send the USAtoday.pdb web page to all the student's Palms at the same time!

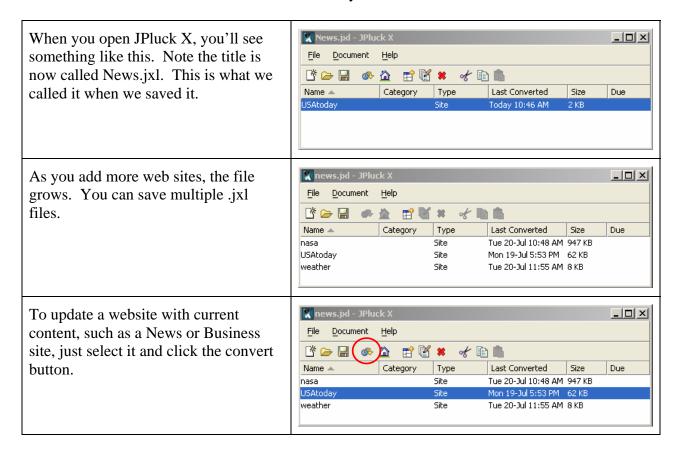


Using Plucker on the Palms (for students)

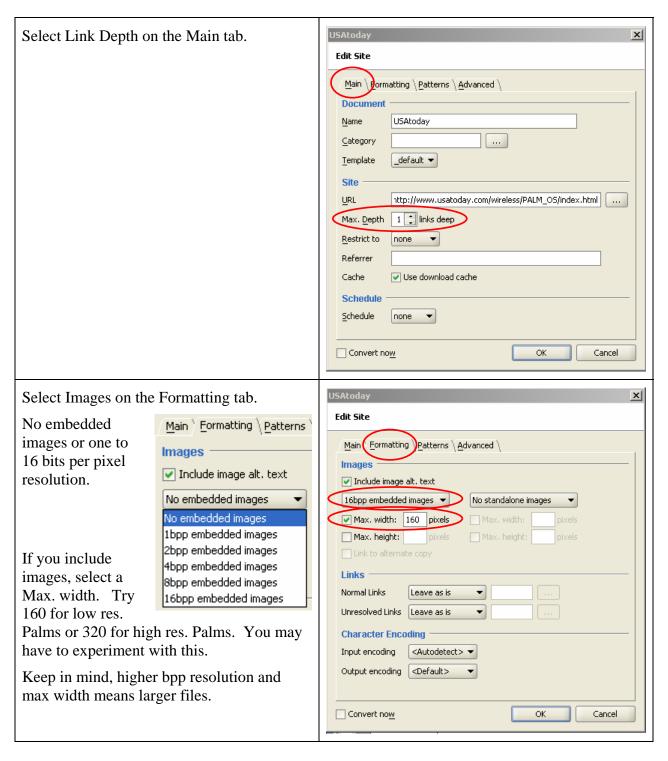


More about JPluck

JXL files: Jxl files store the list of web sites that you have converted.



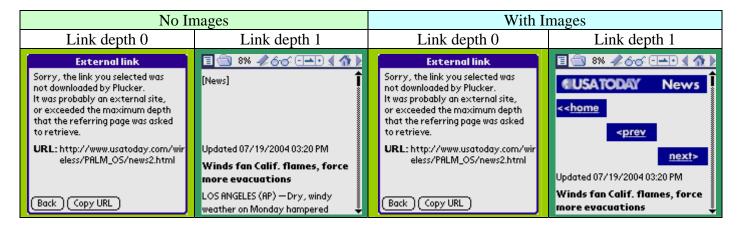
Link Depth and Images: The two most important parameters you need to know about are <u>Link Depths</u> and <u>Images</u>. The Link Depth sets how "deep" the web page conversion goes. In other words, with link depth of 0, you will get the main page but will not be able to follow links. With a depth of 1, you can follow the links on the main page, but no further. You can also determine whether or not to include images and the pixel quality of the images.



File Size: As seen by the following examples, the Link Depth and inclusion of embedded images affects the size of the resulting pdb file that will be sent to the Palms for viewing.

URL:	http://www.usatoday.com/wireless/PALM_OS/index.html		
Link Depth	Embedded images	Resulting PDB size	Example
0	- No	2 KB	[USAToday.COM] Updated:07/19/2004 04:00 PM [News] 9 killed in fuel-truck bombing in
1		59 KB	Updated:07/19/2004 04:00 PM [News] 9 killed in fuel-truck bombing in Baghdad Winds fan Calif. flames, force more evacuations Marine who vanished says he didn't desert
0	Yes 16 bpp (bits per pixels) Max width, 160 pixels	13 KB	USA TODAY Updated:07/19/2004 06:13 PM
1		109 KB	9 killed in fuel-truck bombing in Baghdad Winds fan Calif. flames, force more evacuations

Link Depth: The Table below shows the result on the Palm of following a link. Follow a link by tapping on the underline (Winds fan Calif. flames, force more evacuations). If the selected link is not included, a "*Sorry*" message is shown.



File Size: Another Example, http://science.nasa.gov/

URL:	ht	tp://science.nasa.go	ov/
Link Depth	Embedded images	Resulting PDB size	Example
0	No	3 KB	[Science @ NASA LOGO] [Today's Story] [NASA LOGO] Voyager 1, Prepare for Action
1		67 KB	Voyager 1, Prepare for Action [Table of Contents for Scientific Discipline Areas][Link to Tracking Page] Subscribe to Science@NASA Updates
0	Yes 16 bpp (bits per pixels) Max width, 160 pixels	109 KB	Science
1		947 KB	Science @NASA Today's Story

A few more screen shots of the Nasa site main page, with images.



The Moral of the story: A picture is worth a thousand words...and a lot of Kilobytes.

Tips and Tricks

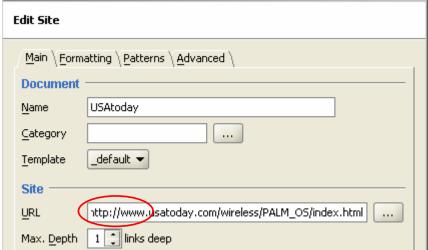
Link Depth and Images:

- Carefully consider what you want give to the students. If all the information is on the main page, set the link depth to 0.
- Include images only if they are useful.
- Set the link depth only as deep as you need to go.
- For a news site where you want the students to be able select various stories (links), bump the link depth to one, but consider not including images.
- A link depth of one or more with images may result in very large files.
- Set the URL to the exact web page you want. If a particular news article if down a link, set the URL here with a link depth of 0.
- Consider the Restrict to domain option (see picture) to keep links from being followed off-site if the link depth is one or more.



URL:

- The URL must include all information including the http:// and the www
- Be careful of URL addresses that re-direct. For example
 http://pocket.usatoday.com/palm/ re-directs to
 http://www.usatoday.com/wireless/PALM_OS/index.html. Be sure to use the actual URL.



Websites:

While JPluck can convert and Plucker can display any website, there are many sites that have been designed for handhelds. Consider these sites as they look very good on handheld displays.

	News
BBC	http://news.bbc.co.uk/text_only.stm
USA TODAY	http://www.usatoday.com/wireless/PALM_OS/index.html
Washington Post	http://www.washingtonpost.com/wp-srv/avantgo.html
ITN: Headlines	http://avantgo.itn.co.uk/
Guardian Unlimited	http://www.guardian.co.uk/avantgo/
Sidney Morning Herald	http://www.smh.com.au/handheld/
New York Post	http://www.nypost.com/avantgo/
LA Times	http://www.latimes.com/wireless/avantgo/
San Diego Union	http://go.sosd.com/
Detroit Free Press	http://www.freep.com/avantgo_detroit/index.htm
Dallas News	http://www.dallasnews.com/pda/
Houston chronicle	http://www.chron.com/content/chronicle/handheld/index.html
Amarillo Globe	http://www.amarillonet.com/palm_pilot/palm_index.html
Honolulu Advertiser	http://the.honoluluadvertiser.com/palm
Cincinnati Enquirer	http://www.cincinnati.com/text/
Fredericksburg	http://fredericksburg.com/news/palm/index.html
Jacksonville	http://www.jax2go.com/palm/

	Business
Yahoo! Reuters	
News	http://wap.oa.yahoo.com/raw?dp=news&f=/us/news/580/index.xml
Yahoo! AP News	http://wap.oa.yahoo.com/raw?dp=news&f=/us/news/530/index.xml
The Motley Fool	http://64.94.26.1/partners/avantgo/index.htm
USA Today	http://www.usatoday.com/wireless/PALM_OS/index.html
Industry Week	http://www.industryweek.com/avantgo/
Yahoo! Finance	http://wap.oa.yahoo.com/raw?dp=quote
Bloomberg	http://tv.bloomberg.com/imode/en/home.asp
The Street	http://www.thestreet.com/offers/avantgo/html/markets/index.html
Business Week	http://pda.businessweek.com/index.html

Education Sites		
Cell Biology	http://www.tribeam.com/edu2/education.html	
Nasa Science	http://science.nasa.gov/	
Plucker books	http://dave.pluckerbooks.com:81/	
Bibliomania	http://www.bibliomania.com/	

Handheld Portals	
TriBeam	http://www.tribeam.com/webconnect.html
Yahoo!	http://wap.oa.yahoo.com/

Weather		
AccuWeather	http://www.accuweather.com/pda/pda_5dy.asp?thisZip=60004	
	(change zip code for your weather)	

Sports		
ESPN	http://proxy.espn.go.com/wireless/espn/html/pocketpc	
USA Today	http://www.usatoday.com/wireless/PALM_OS/index.html	
Yahoo! Sports	http://wap.oa.yahoo.com/raw?dp=sports	
The Sporting News	http://mobile.sportingnews.com/	

Reference		
Handy Facts	http://squeezenet.com/HandyFact/default.htm	
Consumer Info	http://squeezenet.com/PDATab/InfoP/Consumer/default.html	
Mapquest	http://www.mapquest.com/pda/main.adp	
MSN Horoscopes	http://mobile.msn.com/pocketpc/horoscopes.asp	

Technology		
Wired News	http://www.wired.com/news_drop/palmpilot/	
PDA Geek	http://www.geek.com/pdageek/portable/index.htm	
Pen Computing	http://www.pencomputing.com/palm/avantgo/palmmain.html	

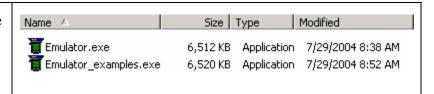
Entertainment		
TV Guide	http://tvguide.com/palm/	
Variety	http://www.variety.com/index.asp?layout=channel	
The Onion	http://mobile.theonion.com/	
Good Clean Funnies	http://www.gcfl.net/avantgo/mobile.php	
Pfft	http://avantgo.pfft.net/	

Previewing web pages on the Palm

Would you like to be able to see what the web page is going to look like on a Palm? Well you can, and it's very easy.

Two versions of the emulator are included.

Copy them to your desktop computer.



Double click to start TEmulator_examples.exe

It has Plucker installed along with some example web pages.

Tap the

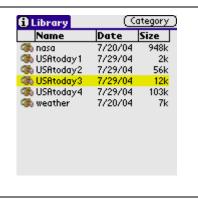


icon.



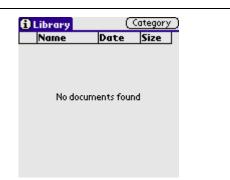
You'll see the Plucker Library which shows the list of loaded files. Tap a name to view it.

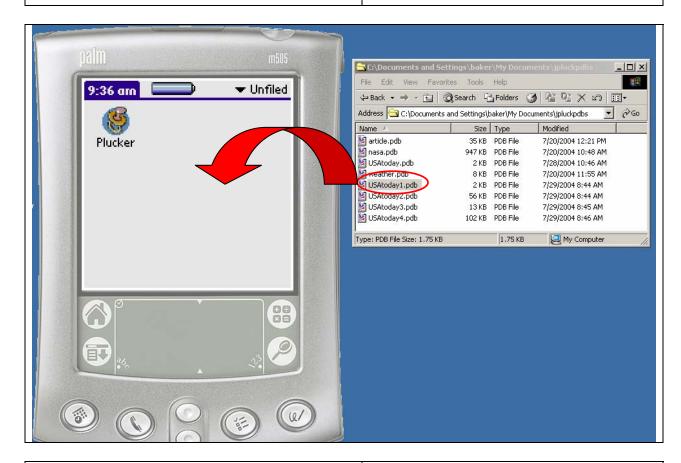
Nasa	Link depth 1, with images	
USAtoday1	Link depth 0, no images	
USAtoday2	Link depth 1, no images	
USAtoday3	Link depth 0, with images	
USAtoday4	Link depth 1, with images	
weather	Link depth 0, with images	



Use **T** Emulator.exe to view your .pdb files. It has Plucker installed with no web pages.

Just "drag and drop" a .pdb file you created with JPluck onto the emulator. (see below)





Click Plucker and you'll see the web page listed.

Note, if you move a .pdb file onto the emulator and it doesn't show up in the library list, just tap

home



and start Plucker again.



e-books

Plucker is an excellent e-Book Reader, especially with its automatic scroll capability. There are numerous e-book sites. Many have free-to-download e-books. And many already have e-books formatted for Plucker. A few sites are listed here. These are all free.

Site	Format	What to do
http://www.memoware.com/	Plucker	Download and send to Palms
http://home.clarksville.com/~bcollins/PalmDocs.htm	Plucker	Download and send to Palms
http://www.pluckerbooks.com/	Plucker	Download and send to Palms
http://unpress.bandersnatch.org/	Plucker	Download and send to Palms
http://www.gutenberg.net/	text	Download text file and convert it to Plucker using JPluck
http://www.bibliomania.com/	text	Copy and save text file, convert it to Plucker using JPluck