

Re: WebThumb

Source: <http://coding.derkeiler.com/Archive/Python/comp.lang.python/2007-06/msg02097.html>

- *From:* jjl@xxxxxxxxxx (John J. Lee)
 - *Date:* Sun, 17 Jun 2007 16:57:21 GMT
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Johny <python@xxxxxxxx> writes:

How can I get a website thumbnail?
I would like to allow visitors to add their URLs to our pages with the thumbnail of their website.
Can anyone suggest a solution for web thumbnails?
Thanks
L.

There are a number of ways to do it, most of them involving web browsers, and all of them painful in one way or another. No doubt I've missed some out, and note that I've not actually tried most of these:

- * Find some commercial component to do it. I think I'd want to know what it was doing under the hood if I used something like this, since there will be implications for rendering reliability, flakiness, etc. I imagine most of these will be convenient wrappers around MSIE.
- * Use a library capable of HTML rendering. GUI toolkits like Qt, wx and GTK often have simple HTML rendering engines, for example. This is relatively convenient, but is ruled out in your case, since it sounds like you're dealing with arbitrary HTML. Only real battle-hardened web browsers can cope with rendering that reliably.
- * On Unix, send keystroke/mouse events to X11 to automate a browser (not sure how this is done, though I was looking at some (not open source) code that does it not long ago...).
- * Talk to Firefox using XPCOM and in-process Python code running inside Firefox. Example code and/or up-to-date documentation would make this much easier, but I don't think there's much around still.
- * Talk to Firefox using JSSH. I'm assuming this works, but never done it. Presumably it also involves XPCOM interfaces, but with presumably without the risk of Firefox build pain or PyXPCOM quirks.

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* Automate Konqueror with DCOP (or DBUS in KDE 4, I guess). Never tried it, but assume it must be capable of this. Perhaps other browsers support capable DBUS interfaces now, also... Konqueror will not generate the output you expect for some pages, though. PyKDE might work here, too.

* Automate MSIE on Windows with COM (with pywin32 or with ctypes' "comtypes" COM support -- note you still need a third-party package for this -- the ctypes that's part of Python 2.5 standard library isn't enough). This is a mixture of very easy and incredibly painful, depending on what exactly you want to do -- can't say how awkward this particular case is. Last time I looked, it seemed that .NET didn't expose the necessary interfaces to do this, so it *does* have to be COM, not .NET (maybe Vista has changed