
Subject: Re: ENVI Question: Can you programmatically access the Available Spectra List?

Posted by [Mort Canty](#) on Fri, 30 Mar 2007 20:34:31 GMT

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Jeff N. schrieb:

>

> Hi Mort,

>

> Thanks for the reply. I knew about getting data out of spectral
> libraries already - I think I probably didn't explain my original
> problem well enough. Lets say you had a z-profile (or any kind of
> profile, really) opened in an ENVI spectral profile window. If you
> then go to spectral math and enter an expression like "s1 + 50" in the
> expression dialog, then the next thing you're going to see is another
> dialog where you tell ENVI which spectrum you're going to use as s1.
> That spectrum that you had in the ENVI spectral profile window is
> going to be listed in that dialog box so that you can tell ENVI to use
> it as s1. In fact, if you didn't have a spectral profile window up
> with any spectra displayed before you called the spectral math dialog,
> the spectral math dialog will give you an error as I recall. It does
> all this by somehow having a list in memory of all the spectra that
> are being displayed in a profile box. What I want to do is get to
> that list and use it in a routine of my own. That way I can process on
> any kind of spectrum, whether it be from a library, a remote sensing
> scene, test data, etc.

>

> I'm sure you know that there are custom "plot functions" that you can
> write that show up under the "Plot Function" menu of a spectral
> profile display if you modify the useradd.txt file. But, like with
> custom band and spectral math functions, the code that you write has
> some limitations. This is sort of what I want to do in that it's a
> routine that takes in a spectrum that's been displayed in a profile
> window and does some things with it. But I need to do more than just
> display that input spectrum. I need to do things that require more
> input from the user, so I need dialog boxes, etc. Now, of course, I
> can write a routine of my own that gets the spectrum from the user
> some other way, but that just seems to be reinventing the wheel, and
> from the user's point of view it seems more intuitive to display a
> routine, and then click a button or something that says "Do Jeff's
> nifty routine on this spectrum."

>

> I've pretty much given up hope that what I want to do is possible, but
> I thought it was worth a try anyway.

>

> Thanks for your help,

> Jeff

>

Thanks for the explanation. Now I see what you want (I hope :-)). I don't have a clue either, but it seems to me like writing, for instance, your own ENVI "user defined motion routine" to pick up mouse clicks from an opened image display, extracting the Z-profiles (or whatever) and then doing your nifty routine is re-inventing the wheel. You could even call it from the TOOLS/PROFILES menu. But I guess it's a matter of how versatile and "envi-like" you want it to be. If you manage to figure it out after all, let me know.

Cheers

Mort
