
Subject: PyQt widgets?

Posted by [markb77](#) on Sun, 06 Dec 2015 22:55:46 GMT

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hi,

Now that we have Python in IDL, I'm wondering if it's feasible to use something like PyQt widgets?

I recently tested my IDL application on a Mac, and I was disappointed with the circa-20-year-old Motif-based widget system that IDL for Mac uses. It was awful.

So, if it makes sense to use a Python-based widget system from within IDL code, could someone perhaps post an example of how to do this? Perhaps a simple top-level-base widget with a draw window?

thanks

Mark

Subject: Re: PyQt widgets?

Posted by [markb77](#) on Fri, 11 Dec 2015 08:48:18 GMT

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bump

Subject: Re: PyQt widgets?

Posted by [chris_torrence@NOSPAM](#) on Fri, 11 Dec 2015 17:10:21 GMT

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On Friday, December 11, 2015 at 1:48:27 AM UTC-7, superchromix wrote:

> bump

Here you go! This is using IDL 8.5.1.

```
sys = Python.Import('sys')
QtGui = Python.Import('PyQt4.QtGui')
a = QtGui.QApplication(sys.argv)
w = QtGui.QWidget()
void = w.resize(320, 240)
void = w.setWindowTitle("Hello World!")
void = w.show()
```

Notes:

1. I modified the Python example from:
<https://pythonspot.com/pyqt4/>

2. I'm using Anaconda 3, which comes with PyQt.
3. I have no idea how to handle events. That's left as an exercise for the reader. :-)

If you come up with more PyQt examples in IDL, please post them here!

Cheers,
Chris

Subject: Re: PyQT widgets?

Posted by [markb77](#) on Sat, 12 Dec 2015 09:44:19 GMT

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On Friday, December 11, 2015 at 6:10:26 PM UTC+1, Chris Torrence wrote:

> On Friday, December 11, 2015 at 1:48:27 AM UTC-7, superchromix wrote:

>> bump

>

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>

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> If you come up with more PyQt examples in IDL, please post them here!

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> Cheers,

> Chris

thanks Chris! I will have a look at this - maybe I can figure out how to handle the events.

Is IDL 8.5.1 released?

Subject: Re: PyQT widgets?

Posted by [chris_torrence@NOSPAM](#) on Wed, 16 Dec 2015 02:32:23 GMT

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On Saturday, December 12, 2015 at 2:44:21 AM UTC-7, superchromix wrote:
> On Friday, December 11, 2015 at 6:10:26 PM UTC+1, Chris Torrence wrote:
>> On Friday, December 11, 2015 at 1:48:27 AM UTC-7, superchromix wrote:
>>> bump
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> Is IDL 8.5.1 released?

It looks like IDL 8.5.1 just went live today!
-Chris

Subject: Re: PyQT widgets?

Posted by [Jim Pendleton](#) on Thu, 14 Jan 2016 22:54:56 GMT

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On Tuesday, December 15, 2015 at 7:32:28 PM UTC-7, Chris Torrence wrote:
> On Saturday, December 12, 2015 at 2:44:21 AM UTC-7, superchromix wrote:
>> On Friday, December 11, 2015 at 6:10:26 PM UTC+1, Chris Torrence wrote:
>>> On Friday, December 11, 2015 at 1:48:27 AM UTC-7, superchromix wrote:
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>
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> -Chris
```

A couple blog posts covering some of this are now available on the IDL Data Point web site:
<http://www.exelisvis.com/Company/PressRoom/Blogs/IDLDataPoint.aspx>

Look for posts from October 2015 and January 2016.

Jim P.

Subject: Re: PyQT widgets?
Posted by [markb77](#) on Fri, 15 Jan 2016 12:10:53 GMT
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Thanks for this post!

One question: this example covers the topic of using IDL graphics within Python-hosted applications. What about the inverse problem, using Python widgets within an IDL-hosted application? Would that be reasonable?

Mark

Subject: Re: PyQT widgets?
Posted by [Jim Pendleton](#) on Fri, 15 Jan 2016 15:40:14 GMT

On Friday, January 15, 2016 at 5:10:56 AM UTC-7, superchromix wrote:

> Thanks for this post!

>

> One question: this example covers the topic of using IDL graphics within Python-hosted applications. What about the inverse problem, using Python widgets within an IDL-hosted application? Would that be reasonable?

>

> Mark

That may be a topic for one or more future blogs by one or more of us here at Harris Geospatial Solutions. (Yes, that's the new official name for RSI/ITT VIS/Exelis VIS.)

We're always looking for IDL-oriented ideas.

Jim P.
