Subject: Re: 5th & 95th Percentiles
Posted by Vince Hradil on Wed, 13 Feb 2008 16:10:41 GMT

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On Feb 13, 9:58 am, chloesharro...@gmail.com wrote:

> Hello

>

- > I have an array of data which is not in order and need to find the 5th
- > & 95th percentile of this data. Is there an easy way to do this? I
- > will eventually need it to be extended to a for loop that works
- > through multiple arrays each of which have a different number of data
- > contained within them.

>

- > Thanks
- > Chloé

>

> PS. I'm very inexperienced with IDL so the simpler the better!

Luse this:

http://www.fz-juelich.de/icg/icg-1/idl_icglib/idl_source/idl_lib/MartinSchultz3/percentiles.pro

Subject: Re: 5th & 95th Percentiles

Posted by chloesharrocks on Wed, 13 Feb 2008 16:19:22 GMT

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Thanks very much:)

Subject: Re: 5th & 95th Percentiles

Posted by Spon on Wed, 13 Feb 2008 17:04:55 GMT

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On Feb 13, 4:10 pm, Vince Hradil <hrad...@yahoo.com> wrote:

- > On Feb 13, 9:58 am, chloesharro...@gmail.com wrote:
- >
- >> Hello

>

- >> I have an array of data which is not in order and need to find the 5th
- >> & 95th percentile of this data. Is there an easy way to do this? I
- >> will eventually need it to be extended to a for loop that works
- >> through multiple arrays each of which have a different number of data
- >> contained within them.

>

- >> Thanks
- >> Chloé

>

```
>> PS. I'm very inexperienced with IDL so the simpler the better!
> I use this:http://www.fz-juelich.de/icg/icg-1/idl_icglib/idl_sourc e/idl_lib/Mart...

pc5 = Data( (SORT(Data) ) (5 * N_ELEMENTS(Data) / 100) )
pc95 = Data( (SORT(Data) ) (95 * N_ELEMENTS(Data) / 100) )

This is blatant thievery on my part from an old newsgroup thread.

Try searching the old posts for Stein Vidar to whom all credit should go! :-)
```

Good luck! Chris

Subject: Re: 5th & 95th Percentiles
Posted by Maarten[1] on Thu, 14 Feb 2008 09:04:19 GMT
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On Feb 13, 5:04 pm, Spon <christoph.b...@gmail.com> wrote:

```
> pc5 = Data( (SORT(Data) ) (5 * N_ELEMENTS(Data) / 100) )
> pc95 = Data( (SORT(Data) ) (95 * N_ELEMENTS(Data) / 100) )
```

Please use

compile_opt defint32, strictarr

or

compile_opt idl2

at the beginning of each function (and in your IDL startup script) and square braces for readability. For me at least it makes my head spin. Consider the following instead:

```
pc5 = Data[ (SORT(Data))[5 * N_ELEMENTS(Data) / 100] ]
```

At least now it is clear which is which (array indexing vs. function calling).

If you need both pc5 and pc95, be sure to store the sorted index:

```
sidx = sort(data)

ndata = n_elements(data)

pc5 = data[sixd[5*ndata / 100]]

pc66 = data[sixd[66*ndata / 100]]
```

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