Subject: convol
Posted by Dete van Eeden on Sun, 04 Oct 2015 08:18:12 GMT
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Hallo

I want to use the convol function for an array and a kernel.

I am not sure how the center option works? how and where do I define it?

at the moment the result is not quite what it should be...

Any advise?

Subject: Re: convol
Posted by Fabzi on Sun, 04 Oct 2015 08:37:34 GMT
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On 10/04/2015 10:18 AM, Dete van Eeden wrote:
> Hallo
>
> I want to use the convol function for an array and a kernel.
>
> I am not sure how the center option works? how and where do I define it?
>
> at the moment the result is not quite what it should be...
>
> Any advise?

https://xkcd.com/722/

Cheers,

Fabien

Subject: Re: convol
Posted by Dete van Eeden on Sun, 04 Oct 2015 08:49:01 GMT
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On Sunday, October 4, 2015 at 10:37:37 AM UTC+2, Fabien wrote:
> On 10/04/2015 10:18 AM, Dete van Eeden wrote:
>> Hallo
>>
>> I want to use the convol function for an array and a kernel.
>>

>> I am not sure how the center option works? how and where do I define it?
>>
>> at the moment the result is not quite what it should be...
>>
>> Any advise?
>
> https://xkcd.com/722/
>
> Cheers,
>
> Fabien

comics??

Subject: Re: convol
Posted by Fabzi on Sun, 04 Oct 2015 09:05:16 GMT
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On 10/04/2015 10:49 AM, Dete van Eeden wrote:
>>> Hallo
>>>> >
>>>> >I want to use the convol function for an array and a kernel.
>>>> >
>>>> >I am not sure how the center option works? how and where do I define it?
>>>> >
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>>>> >Any advise?
>>>
>>> https://xkcd.com/722/
>>>
>>> Cheers,
>>>
>>> Fabien
> comics??

This comic is a perfect illustration of the way you described your
problem. People here are very helpful but they have no crystal ball and
can't give you a better advice than "press more buttons".

http://www.catb.org/esr/faqs/smart-questions.html#beprecise

Subject: Re: convol
Posted by Dete van Eeden on Sun, 04 Oct 2015 09:15:13 GMT
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On Sunday, October 4, 2015 at 11:05:19 AM UTC+2, Fabien wrote:
> On 10/04/2015 10:49 AM, Dete van Eeden wrote:
>>>> Hallo
>>>> > >
>>>> > >I want to use the convol function for an array and a kernel.
>>>> > >
>>>> > >I am not sure how the center option works? how and where do I define it?
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>
> http://www.catb.org/esr/faqs/smart-questions.html#beprecise

thanks for being an idiot

Subject: Re: convol
Posted by Fabzi on Sun, 04 Oct 2015 09:23:00 GMT
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On 10/04/2015 11:15 AM, Dete van Eeden wrote:
>> http://www.catb.org/esr/faqs/smart-questions.html#beprecise
> thanks for being an idiot

I am sorry you think I am an idiot. I probably am since I can't solve
your problem...

All the best,

Fabien

Subject: Re: convol
Posted by Yngvar Larsen on Sun, 04 Oct 2015 10:44:11 GMT
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On Sunday, 4 October 2015 11:15:15 UTC+2, Dete van Eeden wrote:
> On Sunday, October 4, 2015 at 11:05:19 AM UTC+2, Fabien wrote:
>> On 10/04/2015 10:49 AM, Dete van Eeden wrote:
>>>> > Hallo
>>>> > > >
>>>> > > >I want to use the convol function for an array and a kernel.
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>
> thanks for being an idiot

(THIS is definitively not the way to get an answer anywhere on the net that I know of. But anyway,
here it goes.)

The issue here is that you don't describe why CONVOL doesn't work like you expect. Given that
CONVOL is extremely well documented, including the CENTER keyword, it is hard to know what
your problem is.

 http://www.exelisvis.com/docs/CONVOL.html#C_854643309_676409

You should describe what you did and why that isn't what you expected if you want answers.

A couple of (documented) gotchas are that

1) the CENTER keyword is set by default, and

2) CONVOL does not reverse the kernel unless /REVERSE is set, and thus by default calculates
correlation rather than convolution in the mathematical sense.

--

Yngvar

Subject: Re: convol
Posted by Paul Van Delst[1] on Mon, 05 Oct 2015 11:37:02 GMT

On 10/04/15 05:15, Dete van Eeden wrote:
> On Sunday, October 4, 2015 at 11:05:19 AM UTC+2, Fabien wrote:
>> On 10/04/2015 10:49 AM, Dete van Eeden wrote:
>>>> > Hallo
>>>> >>>
>>>> >>> I want to use the convol function for an array and a kernel.
>>>> >>>
>>>> >>> I am not sure how the center option works? how and where do I define it?
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>> can't give you a better advice than "press more buttons".
>>
>> http://www.catb.org/esr/faqs/smart-questions.html#beprecise
>
> thanks for being an idiot

Now, now. Don't take it personally. Fabien did provide good advice with
the last link (the comic did make me laugh...mostly because I've been in
that position myself, pressing buttons in blind panic mode. But I
digress....)

Getting back to your question, the documentation for CONVOL is pretty
thorough:
   http://www.exelisvis.com/docs/CONVOL.html

When you say you are "not sure how the center option works? how and
where do I define it?" the doc in the above link should help.

To quote from the intro:

"The CENTER keyword controls the alignment of the kernel with the array and the ordering of the kernel elements. If CENTER is explicitly set to 0, convolution is performed in the strict mathematical sense; otherwise, the kernel is centered over each data point."

Now I go back to button pressing... :o)

cheers,

paulv