

# Re: A question on Newton's Method

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*Source:* <http://sci.tech-archive.net/Archive/sci.math.num-analysis/2005-04/msg00062.html>

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- *From:* Roman Werpachowski <"r o m a nNOSPAM"@theta1.cft.edu.pl>
  - *Date:* Mon, 4 Apr 2005 00:42:20 +0000 (UTC)
- 

On the Sun, 3 Apr 2005 17:30:07 -0600, James Van Buskirk wrote:  
 > "Roman Werpachowski" <"r o m a nNOSPAM"@theta1.cft.edu.pl> wrote in message  
 > [news:slrnd50qlg.4k4.romanNOSPAM@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:slrnd50qlg.4k4.romanNOSPAM@xxxxxxxxxxxxxxxxxxxxxxxx)  
 >  
 >> fp[x\_] := D[f[s],s] /. s --> x  
 >  
 > Yep, that's the one, officer: I'd recognize it anywhere!  
 > It shows (to me) that Mathematica's syntax is something  
 > only a Lisper could love :)

I don't \*love\* the syntax, but please note it is very flexible and allows one to define such nice functions as:

```
f1[x_] := D[f[s,s],s] /. s --> x
f2[x_] := D[f[x,s],s]
f3[x_] := D[f[s,s],{s,2}] /. s --> x
f4[x_] := D[D[f[s,t],s],t] /. {s --> x, t --> x}
```

which can be very handy quite often (how would you define those without the --> operator?)

--  
 Roman Werpachowski  
 /-----\  
 | <http://www.cft.edu.pl/~roman> |  
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- *References:*
  - ◆ [\*A question on Newton's Method\*](#)  
 ◇ *From:* David M
  - ◆ [\*Re: A question on Newton's Method\*](#)  
 ◇ *From:* Jon Harrop
  - ◆ [\*Re: A question on Newton's Method\*](#)

Re: A question on Newton's Method

◇ *From:* beliavsky

◆ **[Re: A question on Newton's Method](#)**

◇ *From:* James Van Buskirk

◆ **[Re: A question on Newton's Method](#)**

◇ *From:* Roman Werpachowski

◆ **[Re: A question on Newton's Method](#)**

◇ *From:* Jon Harrop

◆ **[Re: A question on Newton's Method](#)**

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◇ *From:* James Van Buskirk

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◇ *From:* Roman Werpachowski

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◇ *From:* James Van Buskirk

- Prev by Date: **[Re: A question on Newton's Method](#)**
- Next by Date: **[Re: A question on Newton's Method](#)**
- Previous by thread: **[Re: A question on Newton's Method](#)**
- Next by thread: **[Re: A question on Newton's Method](#)**
- Index(es):
  - ◆ **[Date](#)**
  - ◆ **[Thread](#)**