Subject: Re: plot function and legend in a for loop Posted by Paul Van Delst[1] on Fri, 04 Sep 2015 19:24:58 GMT

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On Friday, September 4, 2015 at 8:25:37 AM UTC-4, andrea...@gmx.de wrote:
> Dear all,
> I'm trying to create an indefinite number of lines in one plot. Additionally the goal is to
additionally get a legend.
>
>
  I was trying to do this somehow like this:
  p=plot(spec(0), name=names(0))
>
>
  for i=1,n_elements(spec-1) do p1=plot(spec(i), name=names(i), /over)
>
  l=legend(target=[p,p1])
>
  doing that, not unsurprisingly, I get only the first and last name in the legend.
>
  Is there a way to mitigate the issue other than adding if statements like
>
>
> if n_elements(spec) gt 2 then p3=plot ....
> if n_elements(spec) gt 3 then p4=plot ....
>
> with this way, no matter how many of these lines I add I would at some day end up with some
plots not being plotted :-)
>
> thanks a lot and best regards
> Andreas
I would try something like this:
p=objarr(n)
for i = 0, n-2 do begin
 p[i] = plot(...., name=names[i],..., overplot=i)
endfor
I = legend(target=p)
cheers,
paulv
```