
Subject: plot function and legend in a for loop

Posted by [andreas.brunn](#) on Fri, 04 Sep 2015 12:25:34 GMT

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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
