
Subject: Set graphics variables once, function graphics
Posted by [laura.hike](#) on Wed, 02 Mar 2016 20:15:16 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi,

I'm trying to make a set of plots that are slightly different using function graphics. Is there any way to set the various graphics properties once and have them apply to all of the plots (i.e., change the defaults)? I know how to use system variables for direct graphics, but so far have defined the properties over and over again for these plots and can't find a way to do otherwise.

Thanks!

Subject: Re: Set graphics variables once, function graphics
Posted by [dg86](#) on Thu, 03 Mar 2016 01:23:48 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Wednesday, March 2, 2016 at 3:15:19 PM UTC-5, [laura...@gmail.com](#) wrote:

> Hi,
>

> I'm trying to make a set of plots that are slightly different using function graphics. Is there any way to set the various graphics properties once and have them apply to all of the plots (i.e., change the defaults)? I know how to use system variables for direct graphics, but so far have defined the properties over and over again for these plots and can't find a way to do otherwise.

>
> Thanks!

You can define an anonymous structure that describes your style, and pass that to function graphics routines using the `_EXTRA` mechanism

```
mystyle = {thick: 3, color: 'red', xtitle: 'happiness', ytitle: 'joy'}  
p = plot( [0, 1], _extra = mystyle)
```

This way, you define your properties once (in the structure) and use them in all of your plots.

All the best,

David

Subject: Re: Set graphics variables once, function graphics
Posted by [laura.hike](#) on Thu, 03 Mar 2016 17:52:08 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thanks! It always baffles me how folks in this discussion group know all these little options.....

On Wednesday, March 2, 2016 at 8:23:54 PM UTC-5, David Grier wrote:

> On Wednesday, March 2, 2016 at 3:15:19 PM UTC-5, laura...@gmail.com wrote:

>> Hi,

>>

>> I'm trying to make a set of plots that are slightly different using function graphics. Is there any way to set the various graphics properties once and have them apply to all of the plots (i.e., change the defaults)? I know how to use system variables for direct graphics, but so far have defined the properties over and over again for these plots and can't find a way to do otherwise.

>>

>> Thanks!

>

> You can define an anonymous structure that describes your style, and pass that
> to function graphics routines using the _EXTRA mechanism

>

> mystyle = {thick: 3, color: 'red', xtitle: 'happiness', ytitle: 'joy'}

> p = plot([0, 1], _extra = mystyle)

>

> This way, you define your properties once (in the structure) and use them
> in all of your plots.

>

> All the best,

>

> David

Subject: Re: Set graphics variables once, function graphics

Posted by [dg86](#) on Fri, 04 Mar 2016 17:54:11 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Thursday, March 3, 2016 at 12:52:12 PM UTC-5, laura...@gmail.com wrote:

> Thanks! It always baffles me how folks in this discussion group know all these little options.....

>

>

> On Wednesday, March 2, 2016 at 8:23:54 PM UTC-5, David Grier wrote:

>> On Wednesday, March 2, 2016 at 3:15:19 PM UTC-5, laura...@gmail.com wrote:

>>> Hi,

>>>

>>> I'm trying to make a set of plots that are slightly different using function graphics. Is there any way to set the various graphics properties once and have them apply to all of the plots (i.e., change the defaults)? I know how to use system variables for direct graphics, but so far have defined the properties over and over again for these plots and can't find a way to do otherwise.

>>>

>>> Thanks!

>>

>> You can define an anonymous structure that describes your style, and pass that
>> to function graphics routines using the _EXTRA mechanism

```
>>
>> mystyle = {thick: 3, color: 'red', xtitle: 'happiness', ytitle: 'joy'}
>> p = plot( [0, 1], _extra = mystyle)
>>
>> This way, you define your properties once (in the structure) and use them
>> in all of your plots.
>>
>> All the best,
>>
>> David
```

It's something to do with the inexorable passage of time.

Sigh.
