API to monitor the date change of the system

Posted by atb - 2011/02/23 03:20

I am writing a lua script to add an event for the current date. Because the event changes day by day so I need to know the change of the system date and change the event. I found that rainlendar can change the display as soon as the system date changes, so I want to know whether there is a API to handle this issue? I read the API references but found nothing. Maybe adding a new event to the Rainlendar_SetEventHandler function is a good idea.

By the way, I set a timer to change the event every 10 minutes.

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Re:API to monitor the date change of the system

Posted by Jorge_Luis - 2011/02/23 09:48

With Lua, you can use the os.date to get the current day, and then store the date in a global variable. If comparing the date changes you can remove the previous event and create a new one. Is that what you need?

```
currentDate = os.date("%d/%m/%Y")
_, _, day, month, year = currentDate:find("(.*)/(.*)/(.*)")
```

I don't understand... the event changes every 10 minutes every day???

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Re:API to monitor the date change of the system

Posted by atb - 2011/02/23 10:24

Well, you are right, but the problem is that the script doesn't run all the time. So I have to set a timer to run the script every 10 minutes to see whether the system date is changed or to renew the event according to the current os.date value.

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Re:API to monitor the date change of the system

Posted by Rainy - 2011/02/23 11:33

The timer is quite light weight so I don't think it will add too much load to your system if you check the date every second. Alternatively you could calculate the time to midnight and create a single shot timer that triggers on that time. It might also be possible to use the redraw event for this. I'm not sure though if you should be creating new events while the windows are drawn but you can create a very short timer callback which adds the event immediately after drawing is done (if the day has changed that is).

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Re:API to monitor the date change of the system

Posted by atb - 2011/02/24 10:46

I think the best way is to set a timer to check the date at present. I noticed that the calenders could be updated immediately when the date was changed at midnight or mannually. So I am curious about how rainlendar detects the date changes. Is there something like a timer to check the date every second?

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Re:API to monitor the date change of the system

Posted by Rainy - 2011/02/25 01:31

Yes, Rainlendar has a timer which checks the date once per second.

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Re:API to monitor the date change of the system

Posted by atb - 2011/02/28 03:55

Thank you very much!

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