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Subject: Setting FirstDay puts day numbers out of alignment with day names  
Posted by [jjacksonRIAB](#) on Fri, 09 Mar 2012 04:40:30 GMT

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I made the following changes so that when FirstDay is changed, the calendar days will realign themselves to their names. Having tested Sat-Friday, it appears to work.

I don't know how this affects the week numbers, though, because my math with date time calculation is not too good:

```
int Calendar::DayOfWeek(int day, int month, int year, int zelleroffset)
{
    if(month < 3)
    {
        month += 12 ;
        year -= 1 ;
    }

    int n1 = (26 * (month + 1)) / 10;
    int n2 = (125 * year) / 100;

    return ((day + (8 - first_day) + n1 + n2 - (year / 100) + (year / 400) - zelleroffset) % 7);
}
```

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Subject: Re: Setting FirstDay puts day numbers out of alignment with day names  
Posted by [unodgs](#) on Fri, 09 Mar 2012 20:39:24 GMT

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I found this method somewhere on the net so I'm unable to help you. Just modify it and we will see

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Subject: Re: Setting FirstDay puts day numbers out of alignment with day names  
Posted by [jjacksonRIAB](#) on Fri, 09 Mar 2012 21:22:47 GMT

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Ah sorry, what I meant was that I already had modified it.

I just added (8 - first\_day) to that last line and that seems to be the workaround. Sorry for the confusion.

If the change meets your approval, would you like to push it in?

And thanks for writing the CalendarCtrl BTW. Ultimate++ is proving very useful to me.

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Subject: Re: Setting FirstDay puts day numbers out of alignment with day names  
Posted by [jjacksonRIAB](#) on Fri, 09 Mar 2012 21:38:12 GMT  
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Sorry, I don't think I was clear enough about the problem. The problem is that if you use FirstDay(SATURDAY) as an example, the current behavior does move the weekdays (Sa Su Mo Tu We Th Fr), but it does not shift the dates too, so you could have day 3 of the month be on a Wednesday when it's actually a Friday, etc.

Adding that small piece of code will shift the dates over so they line back up with their respective day names when you call FirstDay.

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Subject: Re: Setting FirstDay puts day numbers out of alignment with day names  
Posted by [jjacksonRIAB](#) on Fri, 09 Mar 2012 21:49:35 GMT  
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Example:

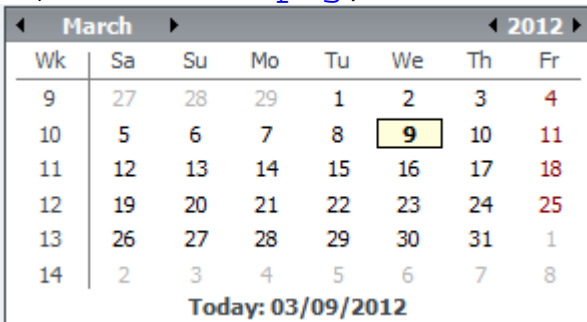
I set FirstDay(SATURDAY):

The first of March is not Tuesday, it is a Thursday. If I add the fix I showed above it shows up right:

## File Attachments

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1) [Calendar.png](#), downloaded 726 times



The screenshot shows a calendar for March 2012. The days of the week are listed at the top: Sa, Su, Mo, Tu, We, Th, Fr. The dates are arranged in a grid. The 9th is highlighted in yellow. The text 'Today: 03/09/2012' is displayed at the bottom of the calendar.

Wk	Sa	Su	Mo	Tu	We	Th	Fr
9	27	28	29	1	2	3	4
10	5	6	7	8	9	10	11
11	12	13	14	15	16	17	18
12	19	20	21	22	23	24	25
13	26	27	28	29	30	31	1
14	2	3	4	5	6	7	8

Today: 03/09/2012

2) [Calendar2.png](#), downloaded 1196 times

◀ March ▶		◀ 2012 ▶					
Wk	Sa	Su	Mo	Tu	We	Th	Fr
8	25	26	27	28	29	1	2
9	3	4	5	6	7	8	9
10	10	11	12	13	14	15	16
11	17	18	19	20	21	22	23
12	24	25	26	27	28	29	30
13	31	1	2	3	4	5	6

Today: 03/09/2012

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Subject: Re: Setting FirstDay puts day numbers out of alignment with day names  
Posted by [unodgs](#) on Sun, 11 Mar 2012 17:44:25 GMT  
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Thank you. It's in svn now

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Subject: Re: Setting FirstDay puts day numbers out of alignment with day names  
Posted by [jjacksonRIAB](#) on Sun, 11 Mar 2012 18:12:19 GMT  
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Thanks, man!