Redmine - Defect #2462

Incorrect Week Number in Spent Time Report

2009-01-07 18:41 - Barry Goodsell

Status:	Closed	**Start date:**	2009-01-07
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	0%
Category:	Time tracking	**Estimated time:**	0.00 hour
Target version:			
Resolution:	Duplicate	**Affected version:**	0.7.3

Description

Whilst using the Spent Time Report, I have noticed that the Week display is incorrect for the first week of 2009. I set a date range of **2008-12-17** to **2009-01-07** and set the Report to show **Weeks**. The Weeks that are displayed are:

- 2008-51
- 2008-52
- 2008-1
- 2009-2

I asssume that the third week ought to show as **2009-1**

Related issues:

Has duplicate Redmine - Defect #2480: Spend time report small issue	**Closed**	**2009-01-09**
Has duplicate Redmine - Defect #3618: KW's are not following ISO8601 > http:/...	**Closed**	**2009-07-15**
Has duplicate Redmine - Defect #3060: Week numbers dont match in reports and ...	**Closed**	**2009-03-27**
Is duplicate of Redmine - Defect #5329: Time entries report broken on first w...	**Closed**	**2010-04-15**

History

#1 - 2009-03-26 22:12 - Anonymous

Also affects calendar. I found that problem in our redmine installation and it turns out it's related to the start of the week. Problem is that week 1 of 2009 starts on december 2008,

If you go to calendar for January 2009, the first week is week 52 of 2008, when it should be week 1 of 2009. This doesn't happen if week starts on Monday.

For any week number calculation you should use Monday as first day of week. I would submit a patch, but I don't see any quick way to fix it, I just hacked it to force monday as first day of week, regardless which language you are using.

```
>> d-=1
=> Thu, 01 Jan 2009
>> [d.cweek,d.year,d.to_s]
=> [1, 2009, "2009-01-01"]
>> d-=1
=> Wed, 31 Dec 2008
>> [d.cweek,d.year,d.to_s]
=> [1, 2008, "2008-12-31"]
>> d-=1
=> Tue, 30 Dec 2008
>> [d.cweek,d.year,d.to_s]
=> [1, 2008, "2008-12-30"]
>> d-=1
=> Mon, 29 Dec 2008
>> [d.cweek,d.year,d.to_s]
=> [1, 2008, "2008-12-29"]
>> d-=1
=> Sun, 28 Dec 2008
>> [d.cweek,d.year,d.to_s]
=> [52, 2008, "2008-12-28"]
```

More info about week counting at http://en.wikipedia.org/wiki/ISO_week_date
Quoting:

> Mutually equivalent definitions for week 01 are:

- the week with the year's first Thursday in it (the ISO 8601 definition)
- the week starting with the Monday which is nearest in time to 1 January
- the week with the year's first working day in it (if Saturdays, Sundays, and 1 January are not working days)
- the week with January 4 in it
- the first week with the majority (four or more) of its days in the starting year
- the week starting with the Monday in the period 29 December - 4 January
- the week with the Thursday in the period 1 - 7 January
- If 1 January is on a Monday, Tuesday, Wednesday or Thursday, it is in week 01. If 1 January is on a Friday, Saturday or Sunday, it is in week 52 or 53 of the previous year.

I hope this helps fixing the problem. Also, fixing #2884 would allow a quick workaround

#2 - 2009-03-26 23:24 - Anonymous

Actually, it seems this bug can be fixed by using Date#cwyear instead of Date#year:

```
=> Fri, 26 Dec 2008
>> 7.times {d+=1; puts [d.cweek,d.cwyear,d.year,d.to_s].inspect}
[52, 2008, 2008, "2008-12-27"]
[52, 2008, 2008, "2008-12-28"]
[1, 2009, 2008, "2008-12-29"]
[1, 2009, 2008, "2008-12-30"]
[1, 2009, 2008, "2008-12-31"]
[1, 2009, 2009, "2009-01-01"]
[1, 2009, 2009, "2009-01-02"]
```

So in TimelogController#report change

```
        when 'week'
          @periods << "#{date_from.year}-#{date_from.to_date.cweek}"
          date_from = (date_from + 7.day).at_beginning_of_week
```

to

```
        when 'week'
          @periods << "#{date_from.cwyear}-#{date_from.to_date.cweek}"
          date_from = (date_from + 7.day).at_beginning_of_week
```

#3 - 2010-07-21 00:00 - Holger Just

- Status changed from New to Closed

- Resolution set to Duplicate

This issue is being worked in in #5329.

Unfortunately, there are some more subtly difficulties to solve...

Files

RedmineSpentTime.JPG	119 KB	2009-01-07	Barry Goodsell