

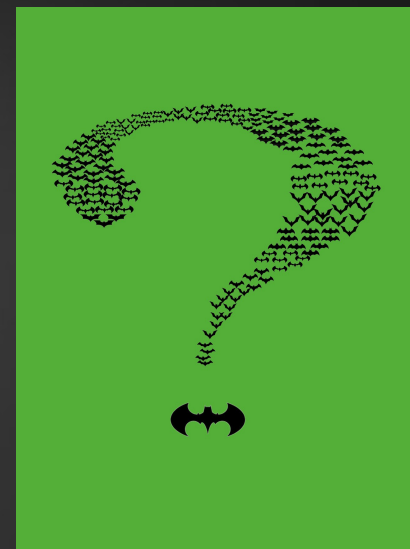




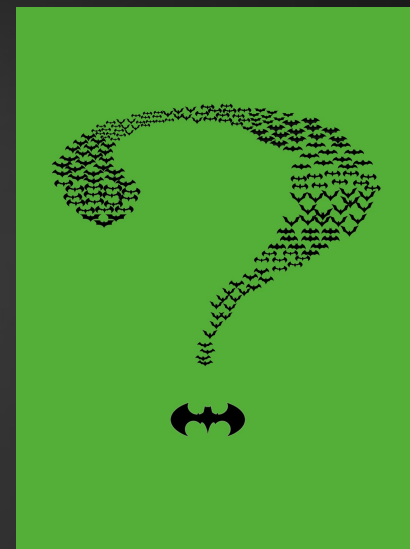
Dodatko Alexander

November 2012

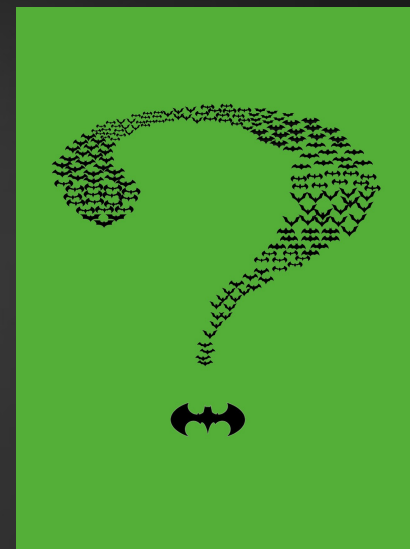




How many moths does the  
year consist of?



What is the first day of the  
year?



Which day is the beginning of  
the week?

Right, but did you know that ...

Jewish calendar consists of 13 months. And month #6 is a leaping one.





In Japan the calendar may  
return to year #1 at the day of  
the emperor's death



In Russia week starts on Monday.

In the USA the first day is Sunday



# Dates must look in the way the user expects





iPod



13:39



Cancel

## Language

Done

**British English**



**English**

**Français**

**Deutsch**

**日本語**

**Nederlands**

**Italiano**

**Español**

**Português**





# The Typical Solution



```
-(NSDate*)parseDate:( NSString* )date_  
{  
    NSDateFormatter* df_ = [ NSDateFormatter new ];  
    df_.dateFormat = @"yyyy-MM-dd";  
  
    return [ df_ dateFromString: date_ ];  
}
```



WRONG !



NSDateFormatter

NSCalendar

NSLocale

NSLocale





Use **en\_US\_POSIX** locale for  
dates from the network

Use **Gregorian** calendar too



Do not forget to set  
the **same Locale**  
for both **NSCalendar** and  
**NSDateFormatter**

# Or let my library do it for you



dodikk / ESLocale



Insert bar chart screenshot  
here



```
SELECT SUM( Visits )  
FROM VisitsLog  
WHERE Date BETWEEN  
x AND y  
GROUP BY week
```



What should I take as week ?



```
SELECT SUM( Visits )  
FROM VisitsLog  
WHERE Date BETWEEN x AND y  
GROUP BY
```

```
Strftime( '%Y-%W' , Date )
```





```
SELECT SUM( Visits)  
FROM VisitsLog  
WHERE Date BETWEEN x AND y  
GROUP BY
```

```
Strftime( '%Y-%W', Date )
```

SQLite





```
SELECT SUM( Visits )  
FROM VisitsLog  
WHERE Date BETWEEN x AND y  
GROUP BY
```

```
ObjcFormatDate( 'YYYY-ww' ,  
Date, 'en_US_POSIX' )
```

Бендер Родригез

Бендер Родригез *Луна-Парк с нуля*



Подробное  
иллюстрированное  
руководство

# Луна-Парк с нуля

с блек-джеком  
и шлюхами

```
int sqlite3_create_function(  
    dbHandle,  
    "ObjcFormatDate",  
    3, //int nArg,  
    SQLITE_UTF8,  
    NULL, // sqlite user data  
    void (*xFunc)  
    (sqlite3_context*,int,sqlite3_value**),  
    NULL, NULL // for aggregates  
);
```

# Plan of attack

Convert C strings to NSString

Convert date string to NSDate

Format NSDate using locale

