

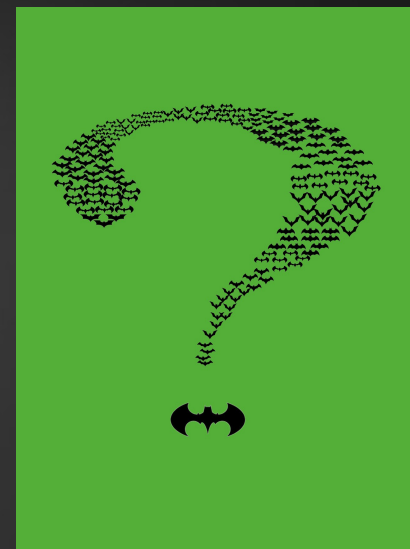




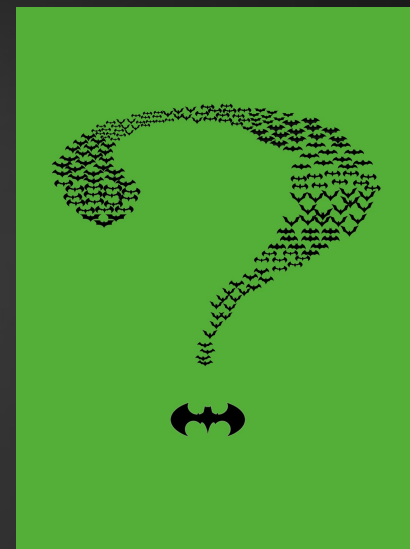
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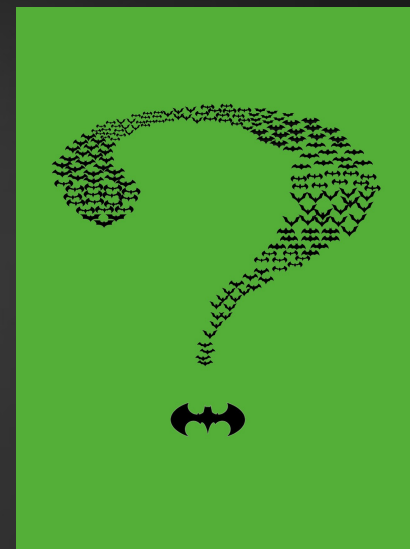




How many moths does the
year consist of?



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



It is an insanely hard work to
make dates look NATURAL to
the user



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

