NSDATE

Create Today's Date

```
#import <Foundation/Foundation.h>


int main (int argc, const char * argv[])

{


        NSDate *todaysDate = [NSDate date];


        NSLog(@"Today's date is %@", todaysDate);

    return 0;

}
```

The code above generates the following result.

Today's date is 2015-01-16 19:37:28 +0000

Create Custom Dates

```objc
#import <Foundation/Foundation.h>


int main (int argc, const char * argv[])
{

        NSDateComponents *dateComponents = [[NSDateComponents alloc] init];
        dateComponents.year = 2007;
        dateComponents.month = 6;
        dateComponents.day = 29;
        dateComponents.hour = 12;
        dateComponents.minute = 01;
        dateComponents.second = 31;
        dateComponents.timeZone = [NSTimeZone timeZoneWithAbbreviation:@"PDT"];


        NSDate *iPhoneReleaseDate = [[NSCalendar currentCalendar] dateFromComponen
ts:dateComponents];


        NSLog(@"The original iPhone went on sale: %@", iPhoneReleaseDate);


    return 0;
}
```

The code above generates the following result.

The original iPhone went on sale: 2007-06-29 19:01:31 +0000

Adding and Subtracting Dates

```objc
#import <Foundation/Foundation.h>

int main (int argc, const char * argv[])
{
    NSString *dateString = @"02/14/2012";

    NSDateFormatter *df = [[NSDateFormatter alloc] init];

    df.dateFormat = @"MM/dd/yyyy";

    NSDate *valentinesDay = [df dateFromString:dateString];

    NSLog(@"Valentine's Day = %@", valentinesDay);

    NSDateComponents *weekBeforeDateComponents = [[NSDateComponents alloc] init];

    weekBeforeDateComponents.week = -1;

  NSDate *vDayShoppingDay = [[NSCalendar currentCalendar] dateByAddingComponents:
weekBeforeDateComponents toDate:valentinesDay options:0];
      NSLog(@"Shop for Valentine's Day by %@", vDayShoppingDay);

    return 0;
}
```