Leap Year In Swift

Fun facts about Leap Year:

- ~4 million people in the world are leap day babies.

- Leap day babies are called leapers or leaplings.

- There is a one in 1,461 chance of being a leap day baby.

- Quite a few famous people were born on February 29th

- Every year divisible by 4 is a leap year.

- But every year divisible by 100 is NOT a leap year.

Slide next to see how to check a year is Leap or not using 2 ways i.e. using % operator and DateFormatter.

Check using % operator ☹

```swift
func isLeapYear(_ year: Int) -> Bool {
    if year % 4 != 0 {
        print("\(year) is not leap year")
        return false
    } else if year % 100 != 0  {
        print("\(year) is a leap year")
        return true
    } else if year % 400 == 0  {
        print("\(year) is a leap year")
        return true
    } else {
        print("\(year) is not a leap year")
        return false
    }
}
```

Check using DateFormatter 😎

```swift
func isLeapYear(_ year: Int) -> Bool {
    let formatter = DateFormatter()
    formatter.dateFormat = "dd-MM-yyyy"

    let dateString = "29-02-\(String(year))"
    guard formatter.date(from: dateString) != nil else {
        return false
    }

    return true
}
```

ios_geeks16