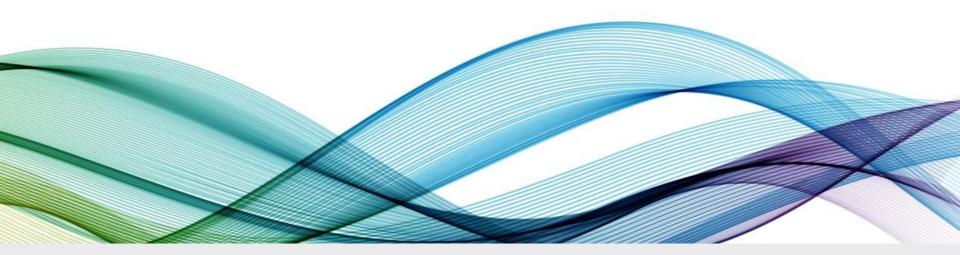


# An Introduction to lubridate() package in R

Day 3



# Agenda – Day 3

- Why character to date conversion is required in R?
- Different date formats available in lubridate() package
- Illustration





### Why character to date conversion is required in R?

- By default R treats date variable as character variable, we have to stream line the date handling process by using the package lubridate()
- Doing so, one can easily do mathematical and statistical calculations using date variables
- Usually date operations include:
  - 1. Finding the time interval between two date variables (i.e. time differences)
  - 2. Extracting months and weekdays



# Different date formats available in lubridate() package

- Lubridate contains many useful functions. We'll only be covering the basics here
- Type help(package = lubridate) to bring up an overview of the package, including the package description, a list of available functions

Functions*	Date	
dmy()	26/11/2008	
ymd()	2008/11/26	
mdy()	11/26/2008	
dmy_hm	26/11/2008 20:15	
dmy_hms	26/11/2008 20:15:12	



<sup>\*</sup> dmy = day / month / year ; hms = hours / minutes / seconds



#### Illustration

Set of date values >> lubridate functions used to stream line the date
>> final R output

Date	Functions Used*	R output
26/11/2008	dmy()	2008-11-26
2008/11/26	ymd()	2008-11-26
11/26/2008	mdy()	2008-11-26
26/11/2008 20:15	dmy_hm	2008-11-26 20:15:00 UTC
26/11/2008 20:15:12	dmy_hms	2008-11-26 20:15:12 UTC

**Note**: R saves all the date value in YYYY/MM/YY (default date format), we can change the default date format by using format() function



<sup>\*</sup> dmy = day / month / year ; hms = hours / minutes / seconds ; UTC = Coordinated Universal Time