# Apply and Dates

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# Loops

We have looked at basic looping with *for()*. See pages 104-105.

And we have discussed the *apply()* function. See pages 106-107.

Now we will discuss some further examples of related *apply()* functions.

- sapply()
- lapply()

# *sapply()* and *lapply()*

These are different from the *apply()* function. The *apply()* function works with vectors and matricies.

The *lapply()* function works with lists. So it expects a list and returns a list.

And the *sapply()* is a bit simpler in that it takes what it gets and trys to return the simplest structure it can.

# Some Examples of *sapply()* and *lapply()*

See pages 106-109.

# Dates

Dates are often values when read into R.

We will need to convert them to dates.