R Notebook

Contents

1 Create function to install packages

This is Luke Blunden's really nice function for installing packages that can't be loaded. Use with caution in a script which may not have internet access...

```
# This is a function to install any packages that cannot be loaded
myRequiredPackages <- function(x,y){
  for( i in x ){
    #  require returns TRUE if it was able to load package
    if( ! require( i , character.only = TRUE ) ){
      #  If package was not able to be loaded then re-install
      install.packages( i , repos=y ,
                        #type="win.binary" , comment out so runs on OS X etc
                        quiet=TRUE , dependencies = TRUE , verbose = FALSE )
      #  Load package after installing
      require( i , character.only = TRUE, quietly = TRUE )
    }
  }
}
```

2 Load required libraries

```
# warning=FALSE, message=FALSE
# the options above suppress/show any warnings & messages
# call the function my_required_packages
myRequiredPackages(c("car",
                     "data.table", # fast data munching
                     "knitr"
                     ),"http://cran.rstudio.com/")
```

```
## Loading required package: car
```

```
## Loading required package: data.table
```

```
## Loading required package: knitr
```

Packages used:

- car - (Fox and Weisberg 2011)
- data.table - (Dowle et al. 2015)
- knitr = (Xie 2016)

Check they were loaded:

```
print(search())
```

```
##  [1] ".GlobalEnv"         "package:knitr"      "package:data.table"
##  [4] "package:car"        "package:stats"      "package:graphics"
##  [7] "package:grDevices"  "package:utils"      "package:datasets"
## [10] "package:methods"    "Autoloads"          "package:base"
```

References

Dowle, M, A Srinivasan, T Short, S Lianoglou with contributions from R Saporta, and E Antonyan. 2015. *Data.table: Extension of Data.frame.* https://CRAN.R-project.org/package=data.table.

Fox, John, and Sanford Weisberg. 2011. *An R Companion to Applied Regression.* Second. Thousand Oaks CA: Sage. http://socserv.socsci.mcmaster.ca/jfox/Books/Companion.

Xie, Yihui. 2016. *Knitr: A General-Purpose Package for Dynamic Report Generation in R.* https://CRAN.R-project.org/package=knitr.