dataDownloadExtract.R

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Sun Sep 21 11:22:44 2014

# This script will download a zipped data file from a url.  
# This script will:  
# 1. Ask you for the name of the data subjectory you want to create.  
# 2. Create a data folder if it does not already exist.  
# 3. Change the workspace to the data subdirectory.  
# 4. Ask you for the url to retrieve the project data.  
# 5. Download the data to the data subdirectory.  
# 6. Unzip the downloaded data.  
# 7. Print the names of extracted files in the  
# unzipped subdirectory  
# NOTE: Your current workspace should be 'project'  
# if not, please manually set your workspace to this.  
# The intended folder structure is:  
# project dir > data dir > unzipped files dir  
  
print("Current working directory: ")

## [1] "Current working directory: "

getwd()

## [1] "/Users/belindaswanson/Coursera/GettingAndCleaningData/project"

# Get name of data directory  
print("\n)  
 The data direcotry will be created if it does not  
 exist already. \n  
 The data directory will be one level DOWN from  
 your current direcotry.\n")

## [1] "\n)\n The data direcotry will be created if it does not\n exist already. \n\n The data directory will be one level DOWN from\n your current direcotry.\n"

dataDir <- readline("Enter data directory name: ")

## Enter data directory name:

# Create directory if it does not exist  
dataDir <- paste(getwd(),"/",dataDir,sep="")  
if (!file.exists(dataDir)) {  
 dir.create(dataDir)  
}  
  
# Set workspace to data directory  
setwd(dataDir)  
print(getwd())

## [1] "/Users/belindaswanson/Coursera/GettingAndCleaningData/project"

# Get URL to download file  
fileUrl <- readline("Enter URL to download file: ")

## Enter URL to download file:

zipfile <- "data.zip"  
download.file(fileUrl, destfile=zipfile, method="curl")

## Warning: download had nonzero exit status

dateDownloaded <- date()  
paste(zipfile, "file downloaded on: ",dateDownloaded)

## [1] "data.zip file downloaded on: Sun Sep 21 11:22:44 2014"

unzip(zipfile)

## Warning: error 1 in extracting from zip file

print("File(s) extracted")

## [1] "File(s) extracted"