

download__and__unzip

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These two related functions download and/or unzip a file from the Internet when given a local directory (default name is `data`), a url, and an expected local file name:

- `download` checks whether the file exists locally and downloads it if not
- `downloadUnzip` checks whether the zip file exists locally. if so, it unzips it. If not, it downloads the file and unzips.

To do:

1. add error checking including what to do if the user is offline
2. add option of changing url from “https” to “http”

`download` function:

```
download <- function(dir = "data", url, file) {  
  ## check if the expected directory exists in the working directory.  
  dir <- paste("./", dir, sep = "")  
  if (!file.exists(dir)) {  
    ## if not, check whether the expected file exists in the working  
    ## directory  
    if (!file.exists(file)) {  
      ## if not, try to download it -- need to remove 'method = "curl"'  
      ## if using in Windows  
      download.file(url, file, method = "curl", mode="wb")  
    }  
  }  
  ## if the directory exists and/or if the file is downloaded,  
}
```

downloadUnzip function:

```
downloadUnzip <- function(dir = "data", url, file) {  
  ## check if the expected directory exists in the working directory.  
  dir <- paste("./", dir, sep = "")  
  if (!file.exists(dir)) {  
    ## if not, check whether the expected zip file ("file") exists  
    ## in the working directory  
    if (!file.exists(file)) {  
      ## if not, try to download it -- need to remove 'method = "curl"'  
      ## if using in Windows  
      download.file(url = url, destfile = file, method = "curl",  
                    mode="wb")  
    }  
    ## unzip the file if the directory doesn't already exist  
    unzip(file)  
  }  
  ## if the directory exists and/or if the zip file is downloaded/unzipped  
  ## or a previously downloaded version of the zip file is unzipped,  
  ## proceed with execution of the script  
}
```