## pkgInst

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based almost entirely on this Stack Overflow response

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pkgInst is a function that checks whether a set of packages are installed and, if not, it installs them and loads them into memory. x is a vector of package names.

This function is called as follows: pkgInst(c("pkg1", "pkg2", "pkg3", ..., "pkgN")) where pkg1 through pkgN are the names of the required packages.

## Example:

```
## start with a vector of package names, one of which ("qcc" in this case) was
## not previously installed.
pkgs <- c("dplyr", "qcc", "reshape2")

## run pkgInst for this vector of packages to load them into memory and to
## install any previously uninstalled packages
pkgInst(pkgs)</pre>
```

```
## Loading required package: dplyr
##
## Attaching package: 'dplyr'
##
## The following object is masked from 'package:stats':
##
## filter
##
## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union
##
## Loading required package: qcc
```

```
## Warning in library(package, lib.loc = lib.loc, character.only = TRUE,
## logical.return = TRUE, : there is no package called 'qcc'

##
## The downloaded binary packages are in
## /var/folders/b6/r3ss83k50r52yc4db9b95y2m0000gp/T//RtmpjWndCi/downloaded_packages

## Loading required package: qcc
## Package 'qcc', version 2.6
## Type 'citation("qcc")' for citing this R package in publications.
## Loading required package: reshape2
```