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coursera-r-programming / programming-assignment-2 / cachematrix.R

 edj-boston on Apr 20 Adding hyphen

1 contributor

65 lines (49 sloc) 1.546 kb

Raw Blame History



```
1  ## A pair of functions that cache the inverse of a matrix
2
3
4  ## Creates a special matrix object that can cache its inverse
5  makeCacheMatrix <- function( m = matrix() ) {
6
7      ## Initialize the inverse property
8      i <- NULL
9
10     ## Method to set the matrix
11     set <- function( matrix ) {
12         m <- matrix
13         i <- NULL
14     }
15
16     ## Method the get the matrix
17     get <- function() {
18         ## Return the matrix
19         m
20     }
21
22     ## Method to set the inverse of the matrix
23     setInverse <- function(inverse) {
24         i <- inverse
25     }
26
27     ## Method to get the inverse of the matrix
28     getInverse <- function() {
29         ## Return the inverse property
30         i
31     }
32
33     ## Return a List of the methods
34     list(set = set, get = get,
35          setInverse = setInverse,
36          getInverse = getInverse)
37 }
38
39
40 ## Compute the inverse of the special matrix returned by "makeCacheMatrix"
41 ## above. If the inverse has already been calculated (and the matrix has not
42 ## changed), then the "cacheSolve" should retrieve the inverse from the cache.
43 cacheSolve <- function(x, ...) {
44
45     ## Return a matrix that is the inverse of 'x'
46     m <- x$getInverse()
47
48     ## Just return the inverse if its already set
49     if( !is.null(m) ) {
50         message("getting cached data")
51         return(m)
52     }
53
54     ## Get the matrix from our object
55     data <- x$get()
56
```

```
57  ## Calculate the inverse using matrix multiplication
58  m <- solve(data) %*% data
59
60  ## Set the inverse to the object
61  x$setInverse(m)
62
63  ## Return the matrix
64  m
65 }
```

