cachematrix.R

Work_ZZ

2020-11-20

```
## Put comments here that give an overall description of what your
## function.
## Write a short comment describing this function

makeCacheMatrix <- function(x = matrix()) {
  inv <- NULL
  set <- function(y) {
    x <<- y
    inv <<- NULL
  }
  get <- function() x
  setInverse <- function(inverse) inv <<- inverse
  getInverse <- function() inv
  list(set = set,
       get = get,
       setInverse = setInverse,
       getInverse = getInverse)
}


## Write a short comment describing this function

cacheSolve <- function(x, ...) {
        ## Return a matrix that is the inverse of 'x'

  inv <- x$getInverse()
  if (!is.null(inv)) {
    message("getting cached data")
    return(inv)
  }
  mat <- x$get()
  inv <- solve(mat, ...)
  x$setInverse(inv)
  inv
}

my_matrix <- makeCacheMatrix(matrix(1:4, 2,2))
my_matrix$get()
```

```
##      [,1] [,2]
## [1,]    1    3
## [2,]    2    4
```

```
my_matrix$getInverse()
```

```
## NULL
```

```
cacheSolve(my_matrix)
```

```
##      [,1] [,2]
## [1,]   -2  1.5
## [2,]    1 -0.5
```

```
my_matrix$getInverse()
```

```
##      [,1] [,2]
## [1,]   -2  1.5
## [2,]    1 -0.5
```