

Package ‘diskmemoiser’

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Type Package

Title Disk Memoisation For R

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Description Disc Memoisation for R, enabling faster computation by avoiding repeated re-evaluation of function calls.

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Imports digest

NeedsCompilation no

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`diskMemoiser`*Disk Memoiser*

Description

Performs memoisation of arbitrary functions to disk to speed up repeated calls to those functions.

Usage

```
diskMemoizer(fun, memo.dir = "./memo")
diskMemoiser(fun, memo.dir = "./memo")
```

Arguments

<code>fun</code>	An arbitrary function.
<code>memo.dir</code>	An optional directory to store the memoised results. If not specified, defaults to <code>./memo</code>

Details

This function defines a memoisation wrapper which saves the results of the function to disk. If the function is called with the same parameters it retrieves the previous result and returns it. Note that this only makes sense if the function is a deterministic and not dependent on external variables. Use carefully!

References

<http://cran.r-project.org/web/packages/memoise>

Examples

```
myfunction.slow <- function(x, y) {
  return(x + sin(y))
}

myfunction <- diskMemoiser(myfunction.slow)
result.slow <- myfunction(3, 5)
result.fast <- myfunction(3, 5)

# The memoization directory defaults to ./memo, but can be reassigned:
myfunction <- diskMemoiser(myfunction.slow, memo.dir = "./temp")
result.slow <- myfunction(7, 11)
result.fast <- myfunction(7, 11)
```

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