Note: this document is a summary and skimps on some details. See runtime help for exact function syntax.

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Quick reference has been thoroughly revised to reflect extended changes to plumbing and miscellaneous features.

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~~One-liners are here! Analysis products are returned in a list as usual, additionally containing the implied metagenome collection. For instance:~~
~~> p <- pco("4441679.3 4441680.3 4441696.3 4440463.3 4440464.3", main="my title", color="blue")~~
~~> pco(p$collection, main="and now, in red", color="red")~~
~~Similarly implemented for: heatmap, sigtest.~~

These routines apply to any matrix:
```
dist(x, method="bray-curtis")
normalize(x)
remove.singletons(x, lim.entry=1 , lim.row=1)
randomize(x, n=1, method = c("sample", "dataset", "complete"), FUN=identity)
```

For collections, the default view in most circumstances (e.g. analysis functions like `pco`) is the most recently constructed.

For API debugging use: `messions$urls()`

Read metagenome IDs from file with: `collection(file="my-id-file.txt")`
One ID per line, or `name<tab>ID` per line.

Read auth key from file with: `msession$setAuth("my-key-file.txt")`

Annotation hierarchies available with: `rownames(collection, view, sep)`
With `sep=FALSE`, the result is a matrix: one column per hierarchy level, one row per annotation.

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For auth keys and other session configuration, use: `msession` (formerly `mconfig`)

For bug reporting, use: `msession$debug()`

Collections now have four default views:
raw counts (`raw`)
normed counts (`nrm`)
no singletons, raw counts (`nsc`)
no singletons, normed counts (`nsn`)

Command reference now available with: `vignette("matR-quick-reference")`
The same document is available via:
`https://github.com/MG-RAST/matR/raw/master/inst/doc/matR-quick-reference.pdf`

Runtime R-style help now available, such as: `?collection`
For the moment, docs are by and large limited to series of examples.

Significance testing of annotations available with: `sigtest()`.

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This file available with: `vignette("matR-change-log")`
And at:
`https://github.com/MG-RAST/matR/raw/master/inst/doc/matR-change-log.pdf`