## NMF: Unit testing results\*

## Renaud Gaujoux, Cathal Seoighe

NMF version 0.17.6 as of June 14, 2013

## 1 Details

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RUNIT TEST PROTOCOL -- Wed Jun 12 22:21:24 2013
*****************
Number of test functions: 81
Number of deactivated test functions: 4
Number of errors: 0
Number of failures: 0
1 Test Suite :
package:NMF - 81 test functions, 0 errors, 0 failures
Details
*********
Test Suite: package:NMF
Test function regexp: ^test.
Test file regexp: ^runit.*.[rR]$
Involved directory:
/tmp/Rpkglib_117019e1fc6b/NMF/tests
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.aheatmap.R
test.mfrow: (1 checks) ... OK (0.51 seconds)
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.algorithms.r
test.brunet: (16 checks) ... OK (4.7 seconds)
test.cversions.brunet: (1 checks) ... OK (1.04 seconds)
test.cversions.lee: (1 checks) ... OK (1.14 seconds)
test.cversions.lnmf : DEACTIVATED, Algorithm 'lnmf' is not fully working.
test.cversions.ns: (1 checks) ... OK (1.24 seconds)
test.cversions.offset: (1 checks) ... OK (2.43 seconds)
test.frobenius: (16 checks) ... OK (5.71 seconds)
test.KL: (16 checks) ... OK (4.72 seconds)
test.lee: (16 checks) ... OK (3.76 seconds)
test.lnmf : DEACTIVATED, Algorithm 'lnmf' is not fully working.
test.ns: (16 checks) ... OK (4.07 seconds)
test.offset: (16 checks) ... OK (4.2 seconds)
test.port_brunet: (9 checks) ... OK (4.59 seconds)
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<sup>\*</sup>Vignette computed on Wed Jun 12 22:21:24 2013

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test.snmf: (44 checks) ... OK (8.88 seconds)
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.bioc.r
test.access: (26 checks) ... OK (0.02 seconds)
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Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.distance.r
test.KL: (9 checks) ... OK (1.2 seconds)
test.rss: (4 checks) ... OK (0.08 seconds)
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.interface.r
test.compare: (5 checks) ... OK (10.99 seconds)
test.nmf.callback: (22 checks) ... OK (15.02 seconds)
test.nmf.custom: (87 checks) ... OK (1.25 seconds)
test.nmf.default: (8 checks) ... OK (0.21 seconds)
test.nmf.dots: (11 checks) ... OK (0.72 seconds)
test.nmf.method: (24 checks) ... OK (7.34 seconds)
test.nmf.model: (22 checks) ... OK (0.68 seconds)
test.nmf.multirank: (10 checks) ... OK (5.75 seconds)
test.nmf.options: (18 checks) ... OK (5.42 seconds)
test.nmf.parameters: (53 checks) ... OK (0.67 seconds)
test.nmf.seed.argument: (149 checks) ... OK (9.4 seconds)
test.nmf.seed.equivalent: (11 checks) ... OK (9.86 seconds)
test.nmf.seed.fault: (4 checks) ... OK (2.51 seconds)
test.nmf.seed.repro: (8 checks) ... OK (14.26 seconds)
test.nmf.stop: (6 checks) ... OK (2.37 seconds)
test.parallel: (6 checks) ... OK (12 seconds)
test.registry: (9 checks) ... OK (0.18 seconds)
test.seed: (33 checks) ... OK (0.14 seconds)
test.summary: (3 checks) ... OK (2.74 seconds)
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.NMFclass.r
test.basis: (2 checks) ... OK (0 seconds)
test.class.NMFns: (65 checks) ... OK (0.03 seconds)
test.class.NMFstd: (28 checks) ... OK (0.01 seconds)
test.coef: (2 checks) ... OK (0 seconds)
test.connectivity: (3 checks) ... OK (0.01 seconds)
test.deviance: (9 checks) ... OK (0.01 seconds)
test.dimensions: (4 checks) ... OK (0 seconds)
test.dimnames: (173 checks) ... OK (0.07 seconds)
test.entropy: (5 checks) ... OK (0 seconds)
test.misc: (9 checks) ... OK (0 seconds)
test.nmfModel: (363 checks) ... OK (0.12 seconds)
test.NMF.rnmf: (93 checks) ... OK (1.09 seconds)
test.predict: (10 checks) ... OK (0.01 seconds)
test.purity: (5 checks) ... OK (0 seconds)
test.sparseness: (13 checks) ... OK (0.01 seconds)
test.subset: (51 checks) ... OK (0.04 seconds)
test.syntheticNMF: (5 checks) ... OK (1.33 seconds)
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.NMFfit-class.r
test.deviance: (0 checks) ... OK (0 seconds)
test.isNMFfit: (6 checks) ... OK (2.76 seconds)
test.niter: (4 checks) ... OK (0.94 seconds)
test.nmf.equal: (304 checks) ... OK (2.03 seconds)
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Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.NMFSet.r
test.fit: (9 checks) ... OK (3.29 seconds)
test.interface: (6 checks) ... OK (1.62 seconds)
test.join.multipleAndSingleRunsMethods: (2 checks) ... OK (3.46 seconds)
test.join.multipleRuns: (2 checks) ... OK (4.37 seconds)
test.join.singleRuns: (7 checks) ... OK (0.76 seconds)
test.multipleruns: (2 checks) ... OK (1.56 seconds)
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.NMFStrategy-class.r
test.accessors: (26 checks) ... OK (0.05 seconds)
test.constructor: (16 checks) ... OK (0.05 seconds)
test.constructorMethod: (3 checks) ... OK (0.03 seconds)
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Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.options.r
test.nmf.getOption: (2 checks) ... OK (0 seconds)
test.nmf.options: (9 checks) ... OK (0 seconds)
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.parallel.r
test.ForeachBackend: (4 checks) ... OK (1.41 seconds)
test.gVariable: (11 checks) ... OK (11.7 seconds)
test.nmf: (59 checks) ... OK (44.18 seconds)
test.setupBackend: (4 checks) ... OK (0.07 seconds)
test.shared_memory_doMC: (12 checks) ... OK (6.1 seconds)
test.shared_memory_doMPI: DEACTIVATED, NMF shared memory feature does not currently work with doMPI.
test.shared_memory_doParallel: (12 checks) ... OK (9.1 seconds)
test.shared_memory_doSEQ: (11 checks) ... OK (6.48 seconds)
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.seed.r
test.nndsvd: (10 checks) ... OK (0.03 seconds)
test.none: (6 checks) ... OK (0.04 seconds)
test.random: (26 checks) ... OK (0.14 seconds)
test.restore : DEACTIVATED, The option 'restore.seed' is deprecated. Related tests are now in test.seed.
test.seed.effect: (15 checks) ... OK (15.62 seconds)
test.zzz.all: (297 checks) ... OK (17.49 seconds)
Test file: /tmp/Rpkglib_117019e1fc6b/NMF/tests/runit.utils.r
test.nmfWrapper: (16 checks) ... OK (0.79 seconds)
test.rmatrix: (16 checks) ... OK (0.01 seconds)
Total execution time
*********
  user system elapsed
265.072 34.100 292.724
```

## **Session Information**

- R version 3.0.1 (2013-05-16), i686-pc-linux-gnu
- Locale: LC\_CTYPE=en\_US.UTF-8, LC\_NUMERIC=C, LC\_TIME=en\_US.UTF-8, LC\_COLLATE=en\_US.UTF-8, LC\_MONETARY=en\_US.UTF-8, LC\_MESSAGES=en\_US.UTF-8, LC\_PAPER=C, LC\_NAME=C, LC\_ADDRESS=C, LC\_TELEPHONE=C, LC\_MEASUREMENT=en\_US.UTF-8, LC\_IDENTIFICATION=C
- Base packages: base, datasets, graphics, grDevices, grid, methods, parallel, stats, utils

- Other packages: BH 1.51.0-1, bigmemory 4.4.3, bigmemory.sri 0.1.2, Biobase 2.20.0, BiocGenerics 0.6.0, cluster 1.14.4, digest 0.6.3, doMPI 0.1-5, doParallel 1.0.3, fastICA 1.2-0, foreach 1.4.1, iterators 1.0.6, NMF 0.17.3, pkgmaker 0.16.4, RColorBrewer 1.0-5, Rcpp 0.10.3, RcppOctave 0.9.1, registry 0.2, Rmpi 0.6-3, rngtools 1.2, RUnit 0.4.26, stringr 0.6.2, synchronicity 1.1.0
- Loaded via a namespace (and not attached): codetools 0.2-8, colorspace 1.2-2, compiler 3.0.1, dichromat 2.0-0, ggplot2 0.9.3.1, gridBase 0.4-6, gtable 0.1.2, labeling 0.1, MASS 7.3-26, munsell 0.4, plyr 1.8, proto 0.3-10, reshape2 1.2.2, scales 0.2.3, tools 3.0.1, xtable 1.7-1