## NMF: Unit testing results\*

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NMF version 0.17.1 as of May 23, 2013

## 1 Details

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RUNIT TEST PROTOCOL -- Thu May 23 14:20:02 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_3e3f299e5511/NMF/tests
Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.aheatmap.R
test.mfrow: (1 checks) ... OK (0.51 seconds)
Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.algorithms.r
test.brunet: (16 checks) ... OK (4.12 seconds)
test.cversions.brunet: (1 checks) ... OK (0.92 seconds)
test.cversions.lee: (1 checks) ... OK (1.09 seconds)
test.cversions.lnmf : DEACTIVATED, Algorithm 'lnmf' is not fully working.
test.cversions.ns: (1 checks) ... OK (1.21 seconds)
test.cversions.offset: (1 checks) ... OK (2.56 seconds)
test.frobenius: (16 checks) ... OK (6.15 seconds)
test.KL: (16 checks) ... OK (4.79 seconds)
test.lee: (16 checks) ... OK (3.65 seconds)
test.lnmf : DEACTIVATED, Algorithm 'lnmf' is not fully working.
test.ns: (16 checks) ... OK (4.64 seconds)
test.offset: (16 checks) ... OK (4.14 seconds)
test.port_brunet: (9 checks) ... OK (4.75 seconds)
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 $<sup>^*\</sup>mbox{Vignette}$  computed on Thu May 23 14:20:02 2013

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test.snmf: (44 checks) ... OK (8.98 seconds)
Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.bioc.r
test.access: (26 checks) ... OK (0.03 seconds)
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Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.distance.r
test.KL: (9 checks) ... OK (1.32 seconds)
test.rss: (4 checks) ... OK (0.09 seconds)
Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.interface.r
test.compare: (5 checks) ... OK (7.92 seconds)
test.nmf.callback: (22 checks) ... OK (13.37 seconds)
test.nmf.custom: (87 checks) ... OK (1.35 seconds)
test.nmf.default: (8 checks) ... OK (0.21 seconds)
test.nmf.dots: (11 checks) ... OK (1.05 seconds)
test.nmf.method: (24 checks) ... OK (5.34 seconds)
test.nmf.model: (22 checks) ... OK (0.63 seconds)
test.nmf.multirank: (10 checks) ... OK (3.59 seconds)
test.nmf.options: (18 checks) ... OK (3.92 seconds)
test.nmf.parameters: (53 checks) ... OK (0.67 seconds)
test.nmf.seed.argument: (149 checks) ... OK (7.7 seconds)
test.nmf.seed.equivalent: (11 checks) ... OK (8.57 seconds)
test.nmf.seed.fault: (4 checks) ... OK (1.73 seconds)
test.nmf.seed.repro: (8 checks) ... OK (9.74 seconds)
test.nmf.stop: (6 checks) ... OK (2.26 seconds)
test.parallel: (6 checks) ... OK (9.22 seconds)
test.registry: (9 checks) ... OK (0.2 seconds)
test.seed: (33 checks) ... OK (0.19 seconds)
test.summary: (3 checks) ... OK (2 seconds)
Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.NMFclass.r
test.basis: (2 checks) ... OK (0 seconds)
test.class.NMFns: (65 checks) ... OK (0.04 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 (0.06 seconds)
test.entropy: (5 checks) ... OK (0 seconds)
test.misc: (9 checks) ... OK (0 seconds)
test.nmfModel: (363 checks) ... OK (0.13 seconds)
test.NMF.rnmf: (93 checks) ... OK (1.08 seconds)
test.predict: (10 checks) ... OK (0.02 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 (1.38 seconds)
Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.NMFfit-class.r
test.deviance: (0 checks) ... OK (0 seconds)
test.isNMFfit: (6 checks) ... OK (1.87 seconds)
test.niter: (4 checks) ... OK (0.94 seconds)
test.nmf.equal: (304 checks) ... OK (1.97 seconds)
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Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.NMFSet.r
test.fit: (9 checks) ... OK (2.55 seconds)
test.interface: (6 checks) ... OK (1.25 seconds)
test.join.multipleAndSingleRunsMethods: (2 checks) ... OK (2.35 seconds)
test.join.multipleRuns: (2 checks) ... OK (2.72 seconds)
test.join.singleRuns: (7 checks) ... OK (0.72 seconds)
test.multipleruns: (2 checks) ... OK (1.19 seconds)
Test file: /tmp/Rpkglib_3e3f299e5511/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_3e3f299e5511/NMF/tests/runit.options.r
test.nmf.getOption: (2 checks) ... OK (0 seconds)
test.nmf.options: (9 checks) ... OK (0.01 seconds)
Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.parallel.r
test.ForeachBackend: (4 checks) ... OK (2.61 seconds)
test.gVariable: (11 checks) ... OK (8.46 seconds)
test.nmf: (59 checks) ... OK (35.09 seconds)
test.setupBackend: (4 checks) ... OK (0.06 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 (8.8 seconds)
test.shared_memory_doSEQ: (11 checks) ... OK (6.47 seconds)
Test file: /tmp/Rpkglib_3e3f299e5511/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 (11.62 seconds)
test.zzz.all: (297 checks) ... OK (16.61 seconds)
Test file: /tmp/Rpkglib_3e3f299e5511/NMF/tests/runit.utils.r
test.nmfWrapper: (16 checks) ... OK (0.75 seconds)
test.rmatrix: (16 checks) ... OK (0.02 seconds)
Total execution time
*********
  user system elapsed
226.728 31.784 249.974
```

## **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˜1.51.0-0, bigmemory 4.4.3, bigmemory.sri˜0.1.2, Biobase˜2.20.0, BiocGenerics˜0.6.0, digest˜0.6.3, doMPI˜0.1-5, doParallel˜1.0.1, fastICA˜1.1-16, foreach˜1.4.0, iterators˜1.0.6, NMF˜0.17.1, pkgmaker˜0.16.3, 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 name space (and not attached): codetools 0.2-8, color space 1.2-2, compiler 3.0.1, gridBase 0.4-6, tools 3.0.1, xtable 1.7-1