## NMF: Unit testing results\*

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NMF version 0.15 as of March 18, 2013

## 1 Details

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RUNIT TEST PROTOCOL -- Mon Mar 18 17:37:08 2013
****************
Number of test functions: 79
Number of deactivated test functions: 4
Number of errors: 0
Number of failures: 0
1 Test Suite :
package: NMF - 79 test functions, 0 errors, 0 failures
Details
********
Test Suite: package:NMF
Test function regexp: ^test.
Test file regexp: ^runit.*.[rR]$
Involved directory:
/tmp/Rpkglib_4bd72ff98be1/NMF/tests
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Test file: /tmp/Rpkglib_4bd72ff98be1/NMF/tests/runit.aheatmap.R
test.mfrow: (1 checks) ... OK (0.46 seconds)
Test file: /tmp/Rpkglib_4bd72ff98be1/NMF/tests/runit.algorithms.r
test.brunet: (16 checks) ... OK (4.27 seconds)
test.cversions.brunet: (1 checks) ... OK (1.42 seconds)
test.cversions.lee: (1 checks) ... OK (1.48 seconds)
test.cversions.lnmf : DEACTIVATED, Algorithm 'lnmf' is not fully working.
test.cversions.ns: (1 checks) ... OK (1.52 seconds)
test.cversions.offset: (1 checks) ... OK (3.69 seconds)
test.lee: (16 checks) ... OK (3.97 seconds)
test.lnmf : DEACTIVATED, Algorithm 'lnmf' is not fully working.
test.ns: (16 checks) ... OK (4.98 seconds)
test.offset: (16 checks) ... OK (5.1 seconds)
test.port_brunet: (9 checks) ... OK (5.25 seconds)
test.snmf: (44 checks) ... OK (10.78 seconds)
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<sup>\*</sup>Vignette computed on Mon Mar 18 17:37:08 2013

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Test file: /tmp/Rpkglib_4bd72ff98be1/NMF/tests/runit.bioc.r
test.access: (26 checks) ... OK (0.02 seconds)
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Test file: /tmp/Rpkglib_4bd72ff98be1/NMF/tests/runit.distance.r
test.KL: (9 checks) ... OK (1.29 seconds)
test.rss: (4 checks) ... OK (0.08 seconds)
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Test file: /tmp/Rpkglib_4bd72ff98be1/NMF/tests/runit.interface.r
test.compare: (5 checks) ... OK (9.17 seconds)
test.nmf.callback: (22 checks) ... OK (11.79 seconds)
test.nmf.custom: (87 checks) ... OK (1.18 seconds)
test.nmf.default: (8 checks) ... OK (0.22 seconds)
test.nmf.dots: (11 checks) ... OK (0.73 seconds)
test.nmf.method: (24 checks) ... OK (5.22 seconds)
test.nmf.model: (22 checks) ... OK (0.71 seconds)
test.nmf.multirank: (10 checks) ... OK (3.82 seconds)
test.nmf.options: (18 checks) ... OK (3.88 seconds)
test.nmf.parameters: (53 checks) ... OK (0.7 seconds)
test.nmf.seed.argument: (127 checks) ... OK (6.38 seconds)
test.nmf.seed.equivalent: (11 checks) ... OK (7.91 seconds)
test.nmf.seed.fault: (4 checks) ... OK (1.66 seconds)
test.nmf.seed.repro: (8 checks) ... OK (9.54 seconds)
test.nmf.stop: (6 checks) ... OK (2.32 seconds)
test.parallel: (6 checks) ... OK (8.7 seconds)
test.registry: (9 checks) ... OK (0.19 seconds)
test.seed: (33 checks) ... OK (0.18 seconds)
test.summary: (3 checks) ... OK (1.85 seconds)
Test file: /tmp/Rpkglib_4bd72ff98be1/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 (0.06 seconds)
test.entropy: (5 checks) ... OK (0 seconds)
test.misc: (9 checks) ... OK (0 seconds)
test.nmfModel: (363 checks) ... OK (0.11 seconds)
test.NMF.rnmf: (93 checks) ... OK (1.06 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 (0.07 seconds)
test.syntheticNMF: (5 checks) ... OK (1.5 seconds)
Test file: /tmp/Rpkglib_4bd72ff98be1/NMF/tests/runit.NMFfit-class.r
test.deviance: (0 checks) ... OK (0 seconds)
test.isNMFfit: (6 checks) ... OK (2.07 seconds)
test.niter: (4 checks) ... OK (1.55 seconds)
test.nmf.equal: (304 checks) ... OK (2.18 seconds)
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Test file: /tmp/Rpkglib\_4bd72ff98be1/NMF/tests/runit.NMFSet.r

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test.fit: (9 checks) ... OK (2.31 seconds)
test.interface: (6 checks) ... OK (1.35 seconds)
test.join.multipleAndSingleRunsMethods: (2 checks) ... OK (2.64 seconds)
test.join.multipleRuns: (2 checks) ... OK (2.85 seconds)
test.join.singleRuns: (7 checks) ... OK (0.69 seconds)
test.multipleruns: (2 checks) ... OK (1.21 seconds)
Test file: /tmp/Rpkglib_4bd72ff98be1/NMF/tests/runit.NMFStrategy-class.r
test.accessors: (26 checks) ... OK (0.04 seconds)
test.constructor: (16 checks) ... OK (0.04 seconds)
test.constructorMethod: (3 checks) ... OK (0.02 seconds)
Test file: /tmp/Rpkglib_4bd72ff98be1/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_4bd72ff98be1/NMF/tests/runit.parallel.r
test.ForeachBackend: (4 checks) ... OK (1.29 seconds)
test.gVariable: (11 checks) ... OK (8.49 seconds)
test.nmf: (52 checks) ... OK (32.81 seconds)
test.setupBackend: (4 checks) ... OK (0.08 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 (8.73 seconds)
test.shared_memory_doSEQ: (11 checks) ... OK (6.49 seconds)
Test file: /tmp/Rpkglib_4bd72ff98be1/NMF/tests/runit.seed.r
test.nndsvd: (10 checks) ... OK (0.12 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 (12.18 seconds)
test.zzz.all: (297 checks) ... OK (17 seconds)
Test file: /tmp/Rpkglib_4bd72ff98be1/NMF/tests/runit.utils.r
test.nmfWrapper: (16 checks) ... OK (0.76 seconds)
test.rmatrix: (16 checks) ... OK (0.01 seconds)
Total execution time
********
  user system elapsed
222.733 34.250 240.310
```

## **Session Information**

- R version 2.15.3 (2013-03-01), 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~4.4.0, bigmemory.sri~0.1.2, Biobase~2.18.0, BiocGenerics~0.4.0, digest~0.6.3, doMPI~0.1-5, doParallel~1.0.1, fastICA~1.1-16, foreach~1.4.0,

 $iterators \sim 1.0.6, NMF \sim 0.15, pkgmaker \sim 0.15, RColor Brewer \sim 1.0-5, Rcpp \sim 0.10.2, Rcpp Octave \sim 0.8.12, registry \sim 0.2, Rmpi \sim 0.6-2, rngtools \sim 1.2, RUnit \sim 0.4.26, stringr \sim 0.6.2, synchronicity \sim 1.1.0$ 

• Loaded via a name space (and not attached): codetools  $\sim$  0.2-8, color space  $\sim$  1.2-1, compiler  $\sim$  2.15.3, grid Base  $\sim$  0.4-6, tools  $\sim$  2.15.3, xtable  $\sim$  1.7-1