

# NMF: Unit testing results\*

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NMF version 0.9.5 as of December 7, 2012

## 1 Details

RUNIT TEST PROTOCOL -- Fri Dec 7 14:23:33 2012

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Number of test functions: 78

Number of deactivated test functions: 4

Number of errors: 0

Number of failures: 0

1 Test Suite :

package:NMF - 78 test functions, 0 errors, 0 failures

Details

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Test Suite: package:NMF

Test function regexp: ^test.

Test file regexp: ^runit.\*[rR]\$

Involved directory:

/tmp/tmp.UM9xncSCIf/NMF/tests

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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.aheatmap.R

test.mfrow: (1 checks) ... OK (0.63 seconds)

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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.algorithms.r

test.brunet: (14 checks) ... OK (4.9 seconds)

test.cversions.brunet: (1 checks) ... OK (2.09 seconds)

test.cversions.lee: (1 checks) ... OK (1.94 seconds)

test.cversions.lnmf : DEACTIVATED, Algorithm 'lnmf' is not fully working.

test.cversions.ns: (1 checks) ... OK (1.78 seconds)

test.cversions.offset: (1 checks) ... OK (4.51 seconds)

test.lee: (14 checks) ... OK (6.72 seconds)

test.lnmf : DEACTIVATED, Algorithm 'lnmf' is not fully working.

test.ns: (14 checks) ... OK (8.02 seconds)

test.offset: (14 checks) ... OK (9.21 seconds)

test.port\_brunet: (9 checks) ... OK (8.8 seconds)

test.snmf: (40 checks) ... OK (21.61 seconds)

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\*Vignette computed on Fri Dec 7 14:23:33 2012

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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.distance.r
test.KL: (9 checks) ... OK (2.98 seconds)
test.rss: (4 checks) ... OK (0.12 seconds)
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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.interface.r
test.compare: (5 checks) ... OK (20.56 seconds)
test.nmf.callback: (22 checks) ... OK (38.45 seconds)
test.nmf.custom: (87 checks) ... OK (3.47 seconds)
test.nmf.default: (8 checks) ... OK (0.62 seconds)
test.nmf.dots: (11 checks) ... OK (1.35 seconds)
test.nmf.method: (24 checks) ... OK (16.05 seconds)
test.nmf.model: (22 checks) ... OK (0.97 seconds)
test.nmf.multirank: (10 checks) ... OK (11.73 seconds)
test.nmf.options: (18 checks) ... OK (12.9 seconds)
test.nmf.parameters: (53 checks) ... OK (1.28 seconds)
test.nmf.seed.argument: (127 checks) ... OK (17.19 seconds)
test.nmf.seed.equivalent: (11 checks) ... OK (15.53 seconds)
test.nmf.seed.fault: (4 checks) ... OK (5.23 seconds)
test.nmf.seed.repro: (8 checks) ... OK (24.59 seconds)
test.nmf.stop: (6 checks) ... OK (4.93 seconds)
test.parallel: (6 checks) ... OK (18.39 seconds)
test.registry: (10 checks) ... OK (0.22 seconds)
test.seed: (33 checks) ... OK (0.18 seconds)
test.summary: (3 checks) ... OK (5.45 seconds)
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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.NMFclass.r
test.basis: (2 checks) ... OK (0 seconds)
test.class.NMFns: (65 checks) ... OK (0.12 seconds)
test.class.NMFstd: (28 checks) ... OK (0.04 seconds)
test.coef: (2 checks) ... OK (0.02 seconds)
test.connectivity: (3 checks) ... OK (0.02 seconds)
test.deviance: (9 checks) ... OK (0.03 seconds)
test.dimensions: (4 checks) ... OK (0 seconds)
test.dimnames: (173 checks) ... OK (0.09 seconds)
test.entropy: (5 checks) ... OK (0 seconds)
test.misc: (9 checks) ... OK (0.01 seconds)
test.nmfModel: (363 checks) ... OK (0.18 seconds)
test.NMF.rnmf: (93 checks) ... OK (3.17 seconds)
test.predict: (10 checks) ... OK (0.01 seconds)
test.purity: (5 checks) ... OK (0 seconds)
test.sparseness: (13 checks) ... OK (0.03 seconds)
test.subset: (51 checks) ... OK (0.13 seconds)
test.syntheticNMF: (5 checks) ... OK (2.96 seconds)
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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.NMFfit-class.r
test.deviance: (0 checks) ... OK (0 seconds)
test.isNMFfit: (6 checks) ... OK (7.87 seconds)
test.niter: (4 checks) ... OK (3.2 seconds)
test.nmf.equal: (304 checks) ... OK (4.94 seconds)
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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.NMFSet.r
test.fit: (9 checks) ... OK (8.76 seconds)
test.interface: (6 checks) ... OK (5.84 seconds)
test.join.multipleAndSingleRunsMethods: (2 checks) ... OK (10.08 seconds)

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test.join.multipleRuns: (2 checks) ... OK (12.86 seconds)
test.join.singleRuns: (7 checks) ... OK (1.95 seconds)
test.multiplexer: (2 checks) ... OK (5.5 seconds)
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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.NMFStrategy-class.r
test.accessors: (26 checks) ... OK (0.12 seconds)
test.constructor: (16 checks) ... OK (0.13 seconds)
test.constructorMethod: (3 checks) ... OK (0.05 seconds)
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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.options.r
test.nmf.getOption: (2 checks) ... OK (0.02 seconds)
test.nmf.options: (9 checks) ... OK (0.02 seconds)
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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.parallel.r
test.ForeachBackend: (4 checks) ... OK (6.12 seconds)
test.gVariable: (11 checks) ... OK (31.59 seconds)
test.nmf: (31 checks) ... OK (63.12 seconds)
test.setupBackend: (4 checks) ... OK (0.15 seconds)
test.shared_memory_doMC: (12 checks) ... OK (6.25 seconds)
test.shared_memory_doMPI : DEACTIVATED, NMF shared memory feature does not currently work with doMPI.
test.shared_memory_doParallel: (12 checks) ... OK (16.67 seconds)
test.shared_memory_doSEQ: (11 checks) ... OK (6.58 seconds)
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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.seed.r
test.nndsvd: (10 checks) ... OK (0.07 seconds)
test.none: (6 checks) ... OK (0.08 seconds)
test.random: (26 checks) ... OK (0.29 seconds)
test.restore : DEACTIVATED, The option 'restore.seed' is deprecated. Related tests are now in test.seed.
test.seed.effect: (15 checks) ... OK (38.19 seconds)
test.zzz.all: (297 checks) ... OK (41.11 seconds)
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Test file: /tmp/tmp.UM9xncSCIf/NMF/tests/runit.utils.r
test.nmfWrapper: (16 checks) ... OK (2 seconds)
test.rmatrix: (16 checks) ... OK (0.02 seconds)

Total execution time
*****
      user  system elapsed
254.955   30.673  567.303

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## Session Information

- R version 2.15.2 (2012-10-26), i686-pc-linux-gnu
- Locale: LC\_CTYPE=en\_ZA.UTF-8, LC\_NUMERIC=C, LC\_TIME=en\_ZA.UTF-8, LC\_COLLATE=en\_ZA.UTF-8, LC\_MONETARY=en\_ZA.UTF-8, LC\_MESSAGES=en\_ZA.UTF-8, LC\_PAPER=C, LC\_NAME=C, LC\_ADDRESS=C, LC\_TELEPHONE=C, LC\_MEASUREMENT=en\_ZA.UTF-8, LC\_IDENTIFICATION=C
- Base packages: base, datasets, graphics, grDevices, grid, methods, parallel, stats, utils
- Other packages: bigmemory~4.3.0, bigmemory.sri~0.1.2, Biobase~2.16.0, BiocGenerics~0.2.0, digest~0.5.2, doMPI~0.1-5, doParallel~1.0.1, fastICA~1.1-16, foreach~1.4.0, iterators~1.0.6, NMF~0.9.5, pkgmaker~0.10.1, RColorBrewer~1.0-5, Rcpp~0.10.1, RcppOctave~0.8.11, registry~0.2, Rmpi~0.6-1, rngtools~1.1, RUnit~0.4.26, stringr~0.6.1, synchronicity~1.1.0

- Loaded via a namespace (and not attached): codetools~0.2-8, colorspace~1.2-0, compiler~2.15.2, gridBase~0.4-5, plyr~1.7.1, tools~2.15.2, xtable~1.7-0