

# NMF: Unit testing results\*

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NMF version 0.12 as of March 5, 2013

## 1 Details

RUNIT TEST PROTOCOL -- Tue Mar 5 15:45:25 2013

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Number of test functions: 75

Number of deactivated test functions: 7

Number of errors: 0

Number of failures: 0

1 Test Suite :

package:NMF - 75 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/Rpkglib\_4519e3025f/NMF/tests

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Test file: /tmp/Rpkglib\_4519e3025f/NMF/tests/runit.ahemap.R

test.mfrow: (1 checks) ... OK (0.47 seconds)

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Test file: /tmp/Rpkglib\_4519e3025f/NMF/tests/runit.algorithms.r

test.brunet: (14 checks) ... OK (3.74 seconds)

test.cversions.brunet: (1 checks) ... OK (1.4 seconds)

test.cversions.lee: (1 checks) ... OK (1.6 seconds)

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

test.cversions.ns: (1 checks) ... OK (2.14 seconds)

test.cversions.offset: (1 checks) ... OK (4.95 seconds)

test.lee: (14 checks) ... OK (3.42 seconds)

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

test.ns: (14 checks) ... OK (3.75 seconds)

test.offset: (14 checks) ... OK (3.94 seconds)

test.port\_brunet: (9 checks) ... OK (5.31 seconds)

test.snmf: (40 checks) ... OK (8.7 seconds)

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\*Vignette computed on Tue Mar 5 15:45:26 2013

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Test file: /tmp/Rpkglib\_4519e3025f/NMF/tests/runit.distance.r  
test.KL: (9 checks) ... OK (1.17 seconds)  
test.rss: (4 checks) ... OK (0.08 seconds)  
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Test file: /tmp/Rpkglib\_4519e3025f/NMF/tests/runit.interface.r  
test.compare: (5 checks) ... OK (8.19 seconds)  
test.nmf.callback: (22 checks) ... OK (11.13 seconds)  
test.nmf.custom: (87 checks) ... OK (1.23 seconds)  
test.nmf.default: (8 checks) ... OK (0.21 seconds)  
test.nmf.dots: (11 checks) ... OK (0.8 seconds)  
test.nmf.method: (24 checks) ... OK (5.23 seconds)  
test.nmf.model: (22 checks) ... OK (0.67 seconds)  
test.nmf.multirank: (10 checks) ... OK (3.68 seconds)  
test.nmf.options: (18 checks) ... OK (4.59 seconds)  
test.nmf.parameters: (53 checks) ... OK (0.76 seconds)  
test.nmf.seed.argument: (127 checks) ... OK (6.41 seconds)  
test.nmf.seed.equivalent: (11 checks) ... OK (7.77 seconds)  
test.nmf.seed.fault: (4 checks) ... OK (1.58 seconds)  
test.nmf.seed.repro: (8 checks) ... OK (9.83 seconds)  
test.nmf.stop: (6 checks) ... OK (2.52 seconds)  
test.parallel: (6 checks) ... OK (8.28 seconds)  
test.registry: (10 checks) ... OK (0.19 seconds)  
test.seed: (33 checks) ... OK (0.17 seconds)  
test.summary: (3 checks) ... OK (1.8 seconds)  
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Test file: /tmp/Rpkglib\_4519e3025f/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 (0.12 seconds)  
test.NMF.rnmf: (93 checks) ... OK (1.09 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 (0.05 seconds)  
test.syntheticNMF: (5 checks) ... OK (1.34 seconds)  
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Test file: /tmp/Rpkglib\_4519e3025f/NMF/tests/runit.NMFfit-class.r  
test.deviance: (0 checks) ... OK (0 seconds)  
test.isNMFfit: (6 checks) ... OK (1.75 seconds)  
test.niter: (4 checks) ... OK (0.97 seconds)  
test.nmf.equal: (304 checks) ... OK (1.97 seconds)  
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Test file: /tmp/Rpkglib\_4519e3025f/NMF/tests/runit.NMFSet.r  
test.fit: (9 checks) ... OK (2.28 seconds)  
test.interface: (6 checks) ... OK (1.29 seconds)  
test.join.multipleAndSingleRunsMethods: (2 checks) ... OK (2.36 seconds)

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test.join.multipleRuns: (2 checks) ... OK (2.79 seconds)
test.join.singleRuns: (7 checks) ... OK (0.76 seconds)
test.multiplexer: (2 checks) ... OK (1.2 seconds)
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Test file: /tmp/Rpkglib_4519e3025f/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 (0.02 seconds)
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Test file: /tmp/Rpkglib_4519e3025f/NMF/tests/runit.options.r
test.nmf.getOption: (2 checks) ... OK (0 seconds)
test.nmf.options: (9 checks) ... OK (0.01 seconds)
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Test file: /tmp/Rpkglib_4519e3025f/NMF/tests/runit.parallel.r
test.ForeachBackend : DEACTIVATED, Package doMPI not available.
test.gVariable : DEACTIVATED, Package doMPI not available.
test.nmf : DEACTIVATED, Package doMPI not available.
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 (8.74 seconds)
test.shared_memory_doSEQ: (11 checks) ... OK (6.48 seconds)
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Test file: /tmp/Rpkglib_4519e3025f/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 (0.13 seconds)
test.restore : DEACTIVATED, The option 'restore.seed' is deprecated. Related tests are now in test.seed.
test.seed.effect: (15 checks) ... OK (11.41 seconds)
test.zzz.all: (297 checks) ... OK (17.44 seconds)
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Test file: /tmp/Rpkglib_4519e3025f/NMF/tests/runit.utils.r
test.nmfWrapper: (16 checks) ... OK (0.72 seconds)
test.rmatrix: (16 checks) ... OK (0.01 seconds)

Total execution time
*****
      user  system elapsed
208.644   23.929  218.455

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## 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: bigmemory~4.3.0, bigmemory.sri~0.1.2, Biobase~2.18.0, BiocGenerics~0.4.0, digest~0.6.3, doParallel~1.0.1, fastICA~1.1-16, foreach~1.4.0, iterators~1.0.6, NMF~0.12, pkgmaker~0.12.1, RColorBrewer~1.0-5, Rcpp~0.10.2, RcppOctave~0.8.12, registry~0.2, rngtools~1.1.2, RUnit~0.4.26, stringr~0.6.2, synchronicity~1.1.0

- Loaded via a namespace (and not attached): codetools~0.2-8, colorspace~1.2-1, compiler~2.15.3, gridBase~0.4-6, tools~2.15.3, xtable~1.7-1