

# NMF: Unit testing results\*

Renaud Gaujoux

NMF version 0.9.5 as of December 14, 2012

## 1 Details

RUNIT TEST PROTOCOL -- Fri Dec 14 18:57:54 2012

\*\*\*\*\*

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

\*\*\*\*\*

Test Suite: package:NMF

Test function regexp: ^test.

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

Involved directory:

/tmp/tmp.4YKVkoHgXW/NMF/tests

-----

Test file: /tmp/tmp.4YKVkoHgXW/NMF/tests/runit.aheatmap.R

test.mfrow: (1 checks) ... OK (1.88 seconds)

-----

Test file: /tmp/tmp.4YKVkoHgXW/NMF/tests/runit.algorithms.r

test.brunet: (14 checks) ... OK (7.73 seconds)

test.cversions.brunet: (1 checks) ... OK (2.76 seconds)

test.cversions.lee: (1 checks) ... OK (3.42 seconds)

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

test.cversions.ns: (1 checks) ... OK (3.42 seconds)

test.cversions.offset: (1 checks) ... OK (9 seconds)

test.lee: (14 checks) ... OK (7.81 seconds)

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

test.ns: (14 checks) ... OK (10.19 seconds)

test.offset: (14 checks) ... OK (11.43 seconds)

test.port\_brunet: (9 checks) ... OK (9.4 seconds)

test.snmf: (40 checks) ... OK (16.51 seconds)

---

\*Vignette computed on Fri Dec 14 18:57:55 2012

-----  
Test file: /tmp/tmp.4YKVkoHgXW/NMF/tests/runit.distance.r  
test.KL: (9 checks) ... OK (2.88 seconds)  
test.rss: (4 checks) ... OK (0.24 seconds)  
-----

Test file: /tmp/tmp.4YKVkoHgXW/NMF/tests/runit.interface.r  
test.compare: (5 checks) ... OK (25.3 seconds)  
test.nmf.callback: (22 checks) ... OK (37.17 seconds)  
test.nmf.custom: (87 checks) ... OK (3.35 seconds)  
test.nmf.default: (8 checks) ... OK (0.63 seconds)  
test.nmf.dots: (11 checks) ... OK (1.87 seconds)  
test.nmf.method: (24 checks) ... OK (15.26 seconds)  
test.nmf.model: (22 checks) ... OK (1.58 seconds)  
test.nmf.multirank: (10 checks) ... OK (9.35 seconds)  
test.nmf.options: (18 checks) ... OK (8.59 seconds)  
test.nmf.parameters: (53 checks) ... OK (1.18 seconds)  
test.nmf.seed.argument: (127 checks) ... OK (14.73 seconds)  
test.nmf.seed.equivalent: (11 checks) ... OK (16.04 seconds)  
test.nmf.seed.fault: (4 checks) ... OK (2.5 seconds)  
test.nmf.seed.repro: (8 checks) ... OK (19.04 seconds)  
test.nmf.stop: (6 checks) ... OK (3.51 seconds)  
test.parallel: (6 checks) ... OK (18.24 seconds)  
test.registry: (10 checks) ... OK (0.2 seconds)  
test.seed: (33 checks) ... OK (0.26 seconds)  
test.summary: (3 checks) ... OK (5.23 seconds)  
-----

Test file: /tmp/tmp.4YKVkoHgXW/NMF/tests/runit.NMFclass.r  
test.basis: (2 checks) ... OK (0.01 seconds)  
test.class.NMFns: (65 checks) ... OK (0.06 seconds)  
test.class.NMFstd: (28 checks) ... OK (0.02 seconds)  
test.coef: (2 checks) ... OK (0.01 seconds)  
test.connectivity: (3 checks) ... OK (0.01 seconds)  
test.deviance: (9 checks) ... OK (0.02 seconds)  
test.dimensions: (4 checks) ... OK (0 seconds)  
test.dimnames: (173 checks) ... OK (0.11 seconds)  
test.entropy: (5 checks) ... OK (0 seconds)  
test.misc: (9 checks) ... OK (0.01 seconds)  
test.nmfModel: (363 checks) ... OK (0.21 seconds)  
test.NMF.rnmf: (93 checks) ... OK (2.26 seconds)  
test.predict: (10 checks) ... OK (0.02 seconds)  
test.purity: (5 checks) ... OK (0 seconds)  
test.sparseness: (13 checks) ... OK (0.02 seconds)  
test.subset: (51 checks) ... OK (0.1 seconds)  
test.syntheticNMF: (5 checks) ... OK (2.21 seconds)  
-----

Test file: /tmp/tmp.4YKVkoHgXW/NMF/tests/runit.NMFfit-class.r  
test.deviance: (0 checks) ... OK (0 seconds)  
test.isNMFfit: (6 checks) ... OK (4.38 seconds)  
test.niter: (4 checks) ... OK (1.79 seconds)  
test.nmf.equal: (304 checks) ... OK (5.61 seconds)  
-----

Test file: /tmp/tmp.4YKVkoHgXW/NMF/tests/runit.NMFSet.r  
test.fit: (9 checks) ... OK (7.44 seconds)  
test.interface: (6 checks) ... OK (5.03 seconds)  
test.join.multipleAndSingleRunsMethods: (2 checks) ... OK (9.09 seconds)

```

test.join.multipleRuns: (2 checks) ... OK (10.23 seconds)
test.join.singleRuns: (7 checks) ... OK (1.52 seconds)
test.multiplexer: (2 checks) ... OK (4.16 seconds)
-----
Test file: /tmp/tmp.4YKVkoHgXW/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 (0.04 seconds)
-----
Test file: /tmp/tmp.4YKVkoHgXW/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/tmp.4YKVkoHgXW/NMF/tests/runit.parallel.r
test.ForeachBackend: (4 checks) ... OK (5.45 seconds)
test.gVariable: (11 checks) ... OK (30.57 seconds)
test.nmf: (31 checks) ... OK (51.92 seconds)
test.setupBackend: (4 checks) ... OK (0.08 seconds)
test.shared_memory_doMC: (12 checks) ... OK (6.19 seconds)
test.shared_memory_doMPI : DEACTIVATED, NMF shared memory feature does not currently work with doMPI.
test.shared_memory_doParallel: (12 checks) ... OK (13.16 seconds)
test.shared_memory_doSEQ: (11 checks) ... OK (6.49 seconds)
-----
Test file: /tmp/tmp.4YKVkoHgXW/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 (16.62 seconds)
test.zzz.all: (297 checks) ... OK (22.92 seconds)
-----
Test file: /tmp/tmp.4YKVkoHgXW/NMF/tests/runit.utils.r
test.nmfWrapper: (16 checks) ... OK (0.92 seconds)
test.rmatrix: (16 checks) ... OK (0.02 seconds)

Total execution time
*****
      user  system elapsed
251.411   32.013  493.209

```

## 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~0.10.2, 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