

# JDTTest Cheatsheet

## .dyalogtest:

```
DyalogTest: 1.84  
[SuccessValue: ...]  
[Setup: ...]  
Test: test_1  
Test: test_foo  
...  
[Teardown: ...]
```

## Test function

```
▽ r←mytest sink  
A test stuff  
▽  
      OR  
test_f←{  
    y←testSubj arg  
    [MsgVar]←expc Assert y:  
    ...  
}
```

Test functions need to return an empty string to indicate success. If you want to use 0 or other values, have a look at the "SuccessValue" modifier or add it to the .dyalogtest suite.

## Test DSL

### [docvar]~x Assert y OR x Check y

Returns 1 if the assertion that  $x \equiv y$  is wrong, 0 otherwise.

If -halt modifier is set, halts execution if check fails.

Additional comments on line or immediately before or after. If comments are computed, use docvar~x Assert y

### x IsNotElement y

test  $\sim x \in y$  and halts execution if it isn't.

### x Because y

concatenates y to global "r" and returns x.

=> "Syntax sugar" to enable statements like:

```
:if 1 Check 2 ◊ →0 Because'1≠2!' ◊ :endif
```

### n+[id] ##.RandomVal x [y]

generates y (default=1) random values identified by „id“ (like [y]?x).

### ('Type' 'I|W|E')Log txt

Adds txt to specified log (Info / Warning / Error)

## ]JDTTest {.dyalogtest | .apl | .dyalog | path} -modifiers

Modifiers:

- halt: halts execution when Check or Assert fails (so that you can examine the ws)
- trace: trace into setup(s) and tests()
- verbose: show text logged with Log. (test fns should access ##.verbose if they want to support this for □←..output!)
- quiet[=0|1]: only shows error messages (1) or all messages (0)
- filter=aaa: select tests to execute (supports \* and ?)
- loglvl=n: controls the log files DTest creates. Value is a sum of the values...
  - 1={base}.log - Errors
  - 2={base}.warn.log - Warnings
  - 4={base}.info.log - Informations
  - 8={base}.session.log - Session log
  - 16={base}.session.log - Session log ONLY for failing tests
  - 32={base}.log.json - machine-readable results ("rc"=20: Success, 21=Failure)
- off[=0|1]: do (1) or do not (0) exit APL after running tests (also writes logfiles if required)
- order[=0|1|"numvec"]: order of tests. (0=random, 1=alphabetical, numvec specifies alternate order)
- SuccessValue=nnn: the value that successful tests need to return

## Useful variables for tests

##.TESTSOURCE: the path of the current test

##.DYALOG: interpreter's home-directory

##.DyalogVersion: interpreter's version number

## Info about the platform (boolean flags)

##.\_isClassic / ##.\_is32bit / ##.\_is64bit

##.\_isWin / ##.\_isLinux / ##.\_isMacOS

## Code Coverage

In the .dyalogtest file: CodeCoverage\_Subject: #.ns[,#.ns2]

use "-coverage" modifier when running JDTTest