

Introduction to
Programming with R

Testing Programs

Exceptions

try

try

tryCatch

message

warning

stop

Unit Tests

testthat

test_that

expect_equal

expect_true

expect_false

expect_gt

expect_gte

expect_lt

expect_lte

expect_warning

expect_no_warning

expect_error

expect_no_error

expect_message

expect_no_message

expect_output

expect_silent

$$\frac{0.1 + 0.5}{2} = 0.3$$

Floating-Point Imprecision

$$\frac{0.1 + 0.5}{2} = 0.2999999999999999$$

scale

tolerance

Test-Driven Development

Behavior-Driven Development

describe

it

Test Coverage

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