

Description	Keystroke	Function	Note
The <code>should-error</code> macro	(<code>should-error</code> FORM &rest KEYS &key TYPE EXCLUDE-SUBTYPES)		Evaluate FORM and check that it signals an error. <ul style="list-style-type: none"> The error signaled needs to match TYPE. TYPE should be a list of condition names. (It can also be a non-nil symbol, which is equivalent to a singleton list containing that symbol.) If EXCLUDE-SUBTYPES is nil, the error matches TYPE if one of its condition names is an element of TYPE. If EXCLUDE-SUBTYPES is non-nil, the error matches TYPE if it is an element of TYPE. If the error matches, returns (ERROR-SYMBOL . DATA) from the error. If not, or if no error was signaled, abort the test as failed.
The <code>skip-unless</code> macro	(<code>skip-unless</code> CONDITION)		Skip the current ert-deftest defined test unless CONDITION is non-nil. <ul style="list-style-type: none"> This is normally used to skip tests when the environment does not provide the necessary conditions for a valid test.
The <code>:expected-result</code> tag	<code>:expected-result</code> <ul style="list-style-type: none"> <code>:failed</code> <code>:passed</code> 		Tag tests of lesser importances that are expected to fail potentially under some conditions. It can also be used to silence the report of a bug while leaving in the test. See the documentation .

Emacs Lisp Testing — References

Topic & Link	Description
ERT Manuals	
ERT : Emacs Lisp Regression Testing	ERT Manual, part of Emacs.
Test Coverage — Emacs Lisp	Test coverage section of the GNU Emacs Lisp manual
ERT Tools Repositories and Files	
pel-ert.el	pel-ert.el defines a set of equality predicates that accept extra arguments for the sole purpose of having them shown in the ERT report of a failed test. To see a set of <i>test environment</i> variables in the test report just pass them as extra arguments to these equality predicates.
testcover.el source	Source of the test coverage support
overseer.el @ GitHub	
ert-runner @ GitHub	
Emacs Lisp Mock @ EmacsWiki	The original location of that mock library that can be used with ert.
El mock @ GitHub	The new location for el-mock.el
emacs-noflet @ GitHub	External package that provides the noflet macro which can be used to re-define functions locally. Can be used in ERT testing. I created my own fork of this and integrated most long standing pull requests. See pierre-rouleau / emacs-noflet .
Articles/Blogs on ERT	
Elisp Unit Testing with ERT	Quick overview of ERT in an August 2012 blog written by Chris Wellons. Since then the cl.el library was replaced by the cl-lib.el and the flet function was deprecated to cl-flet, but aside from these small items the description is still valid.
Make Flet Great Again	Another great port from Chris Wellons. Describes the new cl-flet and cl-letf, and how to use cl-letf to create Ert test that modify the behaviour of called functions.
ERT: Emacs Lisp Regression Testing	A nice description of the ERT features and techniques given at the NYC meetup. Describes: <ul style="list-style-type: none"> How to write a simple test, how to run the test and use the *ert* buffer commands. How to test expected errors with should-error
Continuous integration and code coverage for Emacs packages with Travis and Coveralls	An overview of Emacs Lisp unit testing from Sacha Chua blog
Elisp Testing — Nic Ferrier	Nic Ferrier blog on unit testing for Emacs Lisp
Other Unit Testing Support	
emacs-test-simple @ GitHub	An Alternative to ERT
Emacs Lisp Concepts	Several Emacs Lisp concepts are useful when writing ERT test and mock ups.
Scoping Rules for Variable Bindings	When writing Emacs Lisp code and test with mockup in particular its important to fully understand the concepts of dynamic and lexical binding in Emacs Lisp. Be aware that starting with version 27 of Emacs Lisp lexical binding is the default while dynamic binding was the default in previous versions.