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\* [Native Windows platform releases ("x86-mingw32" and "x64-mingw32")](#native-windows%E2%93%A1-platform-releases-x86-mingw32-and-x64-mingw32)

\* [Java (JRuby) platform release ("java")](#java%E2%93%A1-jruby-platform-release-java)

[Appendix: Dependencies' License Texts](#appendix-dependencies-license-texts)

\* [libgumbo](#libgumbo)

\* [libxml2](#libxml2)

\* [libxslt](#libxslt)

\* [zlib](#zlib)

\* [libiconv](#libiconv)

\* [isorelax:isorelax](#isorelaxisorelax)

\* [net.sf.saxon:Saxon-HE](#netsfsaxonsaxon-he)

\* [net.sourceforge.htmlunit:neko-htmlunit](#netsourceforgehtmlunitneko-htmlunit)

\* [nu.validator:jing](#nuvalidatorjing)

\* [org.nokogiri:nekodtd](#orgnokogirinekodtd)

\* [xalan:serializer and xalan:xalan](#xalanserializer-and-xalanxalan)

\* [xerces:xercesImpl](#xercesxercesimpl)

\* [xml-apis:xml-apis](#xml-apisxml-apis)

<!-- tocstop -->

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You can double-check the dependencies in your gem file by examining the output of `nokogiri -v` after installation, which will emit the complete set of libraries in use (for versions `>= 1.11.0.rc4`).

In particular, I'm sure somebody's lawyer, somewhere, is going to freak out that the LGPL appears in this file; and so I'd like to take special note that the dependency covered by LGPL, `libiconv`, is only being redistributed in the native Windows and native Darwin platform releases. It's not present in default, Java, or native Linux releases.

## Platform Releases

### Default platform release ("ruby")

The default platform release distributes the following dependencies in source form:

\* [libxml2](#libxml2)

\* [libxslt](#libxslt)

\* [libgumbo](#libgumbo)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "ruby" for its "platform" attribute.

### Native Linux platform releases ("x86\_64-linux", "arm64-linux", "aarch64-linux", and "arm-linux")

The native Linux platform release distributes the following

dependencies in source form:

- \* [libxml2](#libxml2)
- \* [libxslt](#libxslt)
- \* [libgumbo](#libgumbo)
- \* [zlib](#zlib)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86\_64-linux" or "arm64-linux" for its "platform.cpu" attribute.

### Native Darwin (macOS) platform releases ("x86\_64-darwin" and "arm64-darwin")

The native Darwin platform release distributes the following dependencies in source form:

- \* [libxml2](#libxml2)
- \* [libxslt](#libxslt)
- \* [libgumbo](#libgumbo)
- \* [zlib](#zlib)
- \* [libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86\_64-darwin" or "arm64-darwin" for its "platform.cpu" attribute. Darwin is also known more familiarly as "OSX" or "macOS" and is the operating system for many Apple computers.

### Native Windows platform releases ("x86-mingw32" and "x64-mingw32")

The native Windows platform release distributes the following dependencies in source form:

- \* [libxml2](#libxml2)
- \* [libxslt](#libxslt)
- \* [libgumbo](#libgumbo)
- \* [zlib](#zlib)
- \* [libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x64-mingw32" or "x86-mingw32" for its "platform.cpu" attribute.

### Java (JRuby) platform release ("java")

The Java platform release distributes the following dependencies as compiled jar files:

- \* [isorelax:isorelax](#isorelaxisorelax)
- \* [net.sf.saxon:Saxon-HE](#netsfsaxonsaxon-he)
- \* [net.sourceforge.htmlunit:neko-htmlunit](#netsourceforgehtmlunitneko-htmlunit)

- \* [nu.validator:jing](#nuvalidatorjing)
- \* [org.nokogiri:nekodtd](#orgnokogirinekodtd)
- \* [xalan:serializer and xalan:xalan](#xalanserializer-and-xalanxalan)
- \* [xerces:xercesImpl](#xercesxercesimpl)
- \* [xml-apis:xml-apis](#xml-apisxml-apis)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "java" for

its "platform.os" attribute.

## Appendix: Dependencies' License Texts

This section contains a subsection for each potentially-distributed dependency, which includes the name of the license and the license text.

Please see previous sections to understand which of these potential dependencies is actually distributed in the gem file you're downloading and using.

### libgumbo

Apache 2.0

https://github.com/sparklemotion/nokogiri/blob/main/gumbo-parser/src/README.md

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#### http://xmlsoft.org/

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### libxslt

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http://xmlsoft.org/libxslt/

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### libiconv

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Last revised by Reagle \$Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) \$

## 1.15 minitest 5.20.0

### 1.15.1 Available under license :

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= minitest/{test,spec,mock,benchmark}

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#### == DESCRIPTION:

minitest provides a complete suite of testing facilities supporting TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were allowed to choose our testing frameworks. Kirk Haines and I were paired up and we cracked open the code for a few test frameworks...

I MUST say that minitest is \*very\* readable / understandable compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test

output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

#### == FEATURES/PROBLEMS:

\* minitest/autorun - the easy and explicit way to run all your tests.

\* minitest/test - a very fast, simple, and clean test system.

- \* minitest/spec a very fast, simple, and clean spec system.
- \* minitest/mock a simple and clean mock/stub system.
- \* minitest/benchmark an awesome way to assert your algorithm's performance.
- \* minitest/pride show your pride in testing!
- \* minitest/test\_task a full-featured and clean rake task generator.
- \* Incredibly small and fast runner, but no bells and whistles.
- \* Written by squishy human beings. Software can never be perfect. We will all eventually die.

==

#### RATIONALE:

See design\_rationale.rb to see how specs and tests work in minitest.

#### == SYNOPSIS:

Given that you'd like to test the following class:

class Meme def i\_can\_has\_cheezburger? "OHAI!"

```
end
```

```
def will_it_blend?
"YES!"
end
end
```

=== Unit tests

Define your tests as methods beginning with +test\_+.

```
require "minitest/autorun"
```

```
class TestMeme < Minitest::Test
def setup
@meme = Meme.new
end
```

```
def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
end
```

```
def test_that_it_will_not_blend
  refute_match /^no/i, @meme.will_it_blend?
end
```

```
def test_that_will_be_skipped
skip "test this later"
end
end
```

```
=== Specs
```

```
require "minitest/autorun"
```

```
describe Meme do
before do
@meme = Meme.new
```

end

```
describe "when asked about cheeseburgers" do
```

```
it "must respond positively" do
```

```
_(@meme.i_can_has_cheezburger?).must_equal "OHAI!" end
```

```
end
```

```
describe
```

"when asked about blending possibilities" do

```
it "won't say no" do
    _(@meme.will_it_blend?).wont_match /^no/i
end
end
```

end

For matchers support check out:

\* https://github.com/wojtekmach/minitest-matchers

\* https://github.com/rmm5t/minitest-matchers\_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work! require "minitest/benchmark" if ENV["BENCH"]

class TestMeme < Minitest::Benchmark

# Override self.bench\_range or default range is [1, 10, 100, 1\_000, 10\_000]
def bench\_my\_algorithm
 assert\_performance\_linear 0.9999 do |n| # n is a range value
 @obj.my\_algorithm(n)
 end
end
end

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>/Bench(mark)?\$/</tt>.

```
describe "Meme Benchmark" do
if ENV["BENCH"] then
bench_performance_linear
"my_algorithm", 0.9999 do |n|
100.times do
@obj.my_algorithm(n)
end
end
end
```

outputs something like:

# Running benchmarks:

TestBlah 100 1000 10000 bench\_my\_algorithm 0.006167 0.079279 0.786993 bench\_other\_algorithm 0.061679 0.792797 7.869932

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at https://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

```
class MemeAsker
def initialize(meme)
@meme = meme
end
def ask(question)
method = question.tr(" ", "_") + "?"
@meme.__send__(method)
end
end
```

require "minitest/autorun"

describe MemeAsker, :ask do

describe "when passed an unpunctuated question" do

it "should invoke the appropriate predicate method on the meme" do @meme = Minitest::Mock.new

@meme asker = MemeAsker.new @meme

@meme.expect :will\_it\_blend?, :return\_value

@meme\_asker.ask "will it blend"

```
@meme.verify
end
end
end
```

==== Multi-threading and Mocks

Minitest mocks do not support multi-threading. If it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

```
def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end
```

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at https://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

def test\_stale\_eh
 obj\_under\_test = Something.new

refute obj\_under\_test.stale?

```
Time.stub :now, Time.at(0) do # stub goes away once the block is done
    assert obj_under_test.stale?
    end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

def obj\_under\_test.fake\_method

... end

=== Running Your Tests

Ideally, you'll use a rake task to run your tests (see below), either piecemeal or all at once. BUT! You don't have to:

% ruby -Ilib:test test/minitest/test\_minitest\_test.rb Run options: --seed 37685

# Running:

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with +--help+:

% ruby -Ilib:test test/minitest/test\_minitest\_test.rb --help

minitest options:

-h,help	Display this help.
-s,seed SEED	Sets random seed. Also via env. Eg: SEED=n rake
-v,verbose	Verbose. Show progress processing files.
-n,name PATTERN	Filter run on /regexp/ or string.
-e,exclude PATTER	N Exclude /regexp/ or string from run.

Known extensions: pride, autotest

-p,pride	Pride. Show your testing pride!
-a,autotest	Connect to autotest server.

=== Rake Tasks

You can set up a rake task to run all your tests by adding this to your Rakefile:

require "minitest/test\_task"

Minitest::TestTask.create # named test, sensible defaults

```
# or more explicitly:
```

```
Minitest::TestTask.create(:test)
```

do  $\left| t \right|$ 

```
t.libs << "test"
t.libs << "lib"
t.warning = false
t.test_globs = ["test/**/*_test.rb"]
end</pre>
```

```
task :default => :test
```

Each of these will generate 4 tasks:

rake test:: Run the test suite.rake test:cmd:: Print out the test command.rake test:isolated:: Show which test files fail when run separately.rake test:slow:: Show bottom 25 tests sorted by time.

There are a bunch of variables you can supply to rake to modify the run.

MT\_LIB\_EXTRAS :: Extra libs to dynamically override/inject for custom runs.

Ν	:: -n: Tests to run (string or /regexp/).
Х	:: -x: Tests to exclude (string or /regexp/).
А	:: Any extra arguments. Honors shell quoting.
MT_CP	PU :: How many threads to use for parallel test runs
SEED	:: -sseed Sets random seed.
TESTOPTS :: Deprecated, same as A	
FILTER	R :: Deprecated,
same as A	A

== Writing Extensions

To define a plugin, add a file named minitest/XXX\_plugin.rb to your project/gem. That file must be discoverable via ruby's LOAD\_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find\_files. It will then try to call +plugin\_XXX\_init+ during startup. The option processor will also try to call +plugin\_XXX\_options+ passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

# minitest/bogus\_plugin.rb:

```
module Minitest
def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
    options[:myci] = true
    options[:myci_addr] = get_myci_addr
    options[:myci_port] = get_myci_port
    end
end
```

```
def self.plugin_bogus_init(options)
  self.reporter << MyCI.new(options) if options[:myci]
  end
  end</pre>
```

=== Adding custom reporters

#### Minitest

uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init\_plugins phase. As we saw in +plugin\_bogus\_init+ above, you simply add your reporter instance to the composite via <tt><<</tt>

+AbstractReporter+ defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

start :: Called when the run has started.record :: Called for each result, passed or otherwise.report :: Called at the end of the run.passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

```
# minitest/bogus_plugin.rb
```

module Minitest class MyCI < AbstractReporter attr\_accessor :results, :addr, :port

```
def initialize options
  self.results = []
  self.addr = options[:myci_addr]
  self.port = options[:myci_port]
end
```

```
def record result
self.results
```

#### << result

```
end
```

```
def report
CI.connect(addr, port).send_results self.results
end
end
```

```
# code from above...
end
```

#### == FAQ

=== What versions are compatible with what? Or what versions are supported?

Minitest is a dependency of rails, which until fairly recently had an overzealous backwards compatibility policy. As such, I'm stuck supporting versions of ruby that are long past EOL. Hopefully I'll be able to support only current versions of ruby sometime in the near future.

(As of 2023-03-05)

Current versions of rails: (https://endoflife.date/rails)

If you want to look at the requirements for a specific version, run:

gem spec -r --ruby rails -v 7.0.0

Current versions of ruby: (https://endoflife.date/ruby)

| ruby | Status | EOL Date | |-----+ | 3.2 | Current | 2026-03-31 | | 3.1 | Maint | 2025-03-31 | | 3.0 | Maint | 2024-03-31 | | 2.7 | Security | 2023-03-31 | | 2.6 | EOL | 2022-03-31 | | 2.5 | EOL | 2021-03-31 |

=== How to test SimpleDelegates?

The following implementation and test:

```
class Worker < SimpleDelegator
def work
end
end
```

```
describe Worker do
  before do
  @worker = Worker.new(Object.new)
  end
```

```
it "must respond to work" do
    _(@worker).must_respond_to :work
end
end
```

outputs a failure:

1) Failure:

Worker#test\_0001\_must respond to work [bug11.rb:16]: Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method\_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test fails.

You can bypass <tt>SimpleDelegate#method\_missing</tt> by extending the worker with <tt>Minitest::Expectations</tt>. You can either do that in your setup at the instance level, like:

```
before do
@worker = Worker.new(Object.new)
@worker.extend Minitest::Expectations
end
```

or you can extend the Worker class (within the test file!), like:

class Worker include ::Minitest::Expectations end

=== How to share code across test classes?

Use a module. That's exactly what they're for:

```
module UsefulStuff
  def useful_method
    # ...
    end
end
```

describe Blah do include UsefulStuff

```
def test_whatever
    # useful_method available here
end
end
```

Remember, +describe+ simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

=== How to run code before a group of tests?

Use a constant with begin...end like this:

```
describe Blah do
  SETUP = begin
  # ... this runs once when describe Blah starts
  end
  # ...
end
```

This can be useful for expensive initializations or sharing state. Remember, this is just ruby code, so you need to make sure this technique and sharing state doesn't interfere with your tests.

=== Why am I seeing <tt>uninitialized constant MiniTest::Test (NameError)</tt>?

Are you running the test with Bundler (e.g. via <tt>bundle exec</tt> )? If so, in order to require minitest, you must first add the <tt>gem 'minitest'</tt> to your Gemfile and run +bundle+. Once it's installed, you should be able to require minitest and run your tests.

== Prominent Projects using Minitest:

\* arel

#### \* journey

- \* mime-types
- \* nokogiri
- \* rails (active\_support et al)
- \* rake
- \* rdoc

\* ...and of course, everything from seattle.rb...

== Developing Minitest:

Minitest requires {Hoe}[https://rubygems.org/gems/hoe].

=== Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform. Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

--- expected +++ actual @@ -1,2 +1,3 @@ # encoding: UTF-8 -"Expected /\w+/ to not match \"blah blah blah\"." +"Expected /\w+/ to not match # encoding: UTF-8 +\"blah blah blah\"."

To check your current encoding, run:

ruby -e 'puts Encoding.default\_external'

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of '-Eutf-8'. Something like:

RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default\_external'

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command). Once you've got it successfully outputing UTF-8, use the same setting when running rake in Minitest.

=== Minitest's own tests require GNU (or similar) diff.

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

4) Failure:

TestMinitestUnitTestCase#test\_assert\_equal\_different\_long [D:/ruby/seattlerb/minitest/test/minitest/test\_minitest\_test.rb:936]:

D./Tuby/seattero/minitest/test/minitest/test\_minitest\_test.10.950

Expected: "--- expectedh+++ actualn@@ -1 +1 @@ h--

 $\label{eq:linear} \label{eq:linear} \label{eq:$ 

5) Failure:

TestMinitestUnitTestCase#test\_assert\_equal\_different\_collection\_hash\_hex\_invisible [D:/ruby/seattlerb/minitest/test/minitest/test\_minitest\_test.rb:845]:

Expected: "No visible difference in the Hash#inspect output.\nYou should look at the implementation of #== on Hash or its members.\n

{1=>#<Object:0xXXXXX>}"

Actual: "Expected: {1=>#<Object:0x0000003ba0470>}\n Actual: {1=>#<Object:0x0000003ba0448>}"

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don't, you can download GNU diffutils from http://gnuwin32.sourceforge.net/packages/diffutils.htm (make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

diff.exe -v

There are multiple lines of output, the first should be something like:

diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff, which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest	_spec :: Bridge between Capybara RSpec matchers and	
Minitest::Spec expectations (e.g.		
	<tt>page.must_have_content("Title")</tt> ).	
color_pound_spec	_reporter :: Test names print Ruby Object types in color with	
	your Minitest Spec style tests.	
minispec-metadata :: Metadata for describe/it blocks & CLI tag filter.		
	E.g. <tt>it "requires JS driver", js: true do</tt> &	
	<tt>ruby test.rbtag js</tt> runs tests tagged :js.	
minispec-rails	:: Minimal support to use Spec style in Rails 5+.	
mini-apivore	:: for swagger based automated API testing.	
minitest-around	:: Around block for minitest. An alternative to	
	setup/teardown dance.	
minitest-assert_err	ors	
:: Adds Minite	st assertions to test for errors raised	
	or not raised by Minitest itself.	
minitest-autotest	:: autotest is a continuous testing facility meant to	
	be used during development.	
minitest-bacon	:: minitest-bacon extends minitest with bacon-like	
	functionality.	
minitest-bang	:: Adds support for RSpec-style let! to immediately	
	invoke let statements before each test.	
minitest-bisect	:: Helps you isolate and debug random test failures.	
minitest-blink1_reporter :: Display test results with a Blink1.		
minitest-capistrand	:: Assertions and expectations for testing	
Capistrano recipes.		
minitest-capybara	:: Capybara matchers support for minitest unit and	
spec.		
minitest-cc	:: It provides minimal	

information about code coverage. minitest-chef-handler :: Run Minitest suites as Chef report handlers minitest-ci :: CI reporter plugin for Minitest. minitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations. minitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger. :: Patches Minitest to allow for an easily minitest-display configurable output. minitest-documentation :: Minimal documentation format inspired by rspec's. :: Detailed output inspired by rspec's documentation minitest-doc\_reporter format. minitest-emoji :: Print out emoji for your test passes, fails, and skips. minitest-english :: Semantically symmetric aliases for assertions and expectations. :: Clean API for excluding certain tests you minitest-excludes don't want to run under certain conditions. minitest-fail-fast :: Reimplements RSpec's "fail fast" feature minitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files. minitest-filesystem :: Adds assertion and expectation to help testing filesystem contents. minitest-firemock :: Makes your Minitest mocks more resilient. minitest-focus :: Focus on one test at a time. minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated. minitest-global\_expectations:: Support minitest expectation methods for all objects minitest-great\_expectations :: Generally useful additions to minitest's assertions and expectations. minitest-growl :: Test notifier for minitest via growl. :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR! minitest-happy minitest-have\_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string. minitest-heat :: Reporting that builds a heat map of failure locations minitest-hooks :: Around and before\_all/after\_all/around\_all hooks minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs minitest-implicit-subject :: Implicit declaration of the test subject. minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed. minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database. minitest-junit :: JUnit-style XML reporter for minitest. minitest-keyword :: Use Minitest assertions with keyword arguments. minitest-libnotify :: Test notifier for minitest via libnotify.

minitest-line :: Run test at line number. :: Define assert\_log and enable minitest to test log messages. minitest-logger Supports Logger and Log4r::Logger. :: Provides extensions to minitest for macruby UI minitest-macruby testing. minitest-matchers :: Adds support for RSpec-style matchers to minitest. minitest-matchers\_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections. :: Annotate tests with metadata (key-value). minitest-metadata minitest-mock\_expectations :: Provides method call assertions for minitest. minitest-mongoid :: Mongoid assertion matchers for Minitest. minitest-must not :: Provides must\_not as an alias for wont in Minitest. minitest-optional\_retry :: Automatically retry failed test to help with flakiness. minitest-osx :: Reporter for the Mac OS X notification center. :: Fork-based parallelization minitest-parallel fork minitest-parallel-db :: Run tests in parallel with a single database. :: PowerAssert for Minitest. minitest-power\_assert minitest-predicates :: Adds support for .predicate? methods. minitest-profile :: List the 10 slowest tests in your suite. minitest-rails :: Minitest integration for Rails 3.x. minitest-rails-capybara :: Capybara integration for Minitest::Rails. minitest-reporters :: Create customizable Minitest output formats. minitest-rg :: Colored red/green output for Minitest. minitest-rspec mocks :: Use RSpec Mocks with Minitest. minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler. minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups. minitest-shared\_description :: Support for shared specs and shared spec subclasses minitest-should\_syntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest. minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea) minitest-snail :: Print a list of tests that take too long minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec. minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to\_include :celery\_man). minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond. minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.

minitest-sprint	:: Runs (Get it? It's fast!) your tests and makes	
	it easier to rerun individual failures.	
minitest-stately	:: Find leaking state between tests	
minitest-stub_any_instance :: Stub any instance of a method on the given class		
	for the duration of a block.	
minitest-stub-cons	st :: Stub constants for the duration of a block.	
minitest-tags	:: Add tags for minitest.	
minitest-unordere	d :: Adds a new assertion to minitest for checking the	
	contents of a collection, ignoring element order.	
minitest-vcr	:: Automatic cassette management with Minitest::Spec	
	and VCR.	
minitest_log		
:: Adds s	tructured logging, data explication, and verdicts.	
minitest_owrappe	r :: Get tests results as a TestResult object.	
minitest_should	:: Shoulda style syntax for minitest test::unit.	
minitest_tu_shim	:: Bridges between test/unit and minitest.	
mongoid-minitest	:: Minitest matchers for Mongoid.	
mutant-minitest	:: Minitest integration for mutant.	
pry-rescue	:: A pry plugin w/ minitest support. See	
	pry-rescue/minitest.rb.	
rematch	:: Declutter your test files from large hardcoded data	
	and update them automatically when your code changes.	
rspec2minitest	:: Easily translate any RSpec matchers to Minitest	
	assertions and expectations.	
stubberry	:: Multiple stubbing 'berries', sweet and useful	
	stub helpers and assertions. ( stub_must,	

assert\_method\_called, stubbing ORM objects by id )

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

- \* assay-minitest
- \* detroit-minitest
- \* em-minitest-spec
- \* flexmock-minitest
- \* guard-minitest
- \* guard-minitest-decisiv
- \* minitest-activemodel
- \* minitest-ar-assertions
- \* minitest-capybara-unit
- \* minitest-colorer
- \* minitest-deluxe
- \* minitest-extra-assertions
- \* minitest-rails-shoulda
- \* minitest-spec
- \* minitest-spec-should

\* minitest-sugar

\* spork-minitest

== Minitest related goods

\* minitest/pride fabric: https://www.spoonflower.com/fabric/3928730-again-by-katie\_allen

== REQUIREMENTS:

\* Ruby 2.3+. No magic is involved. I hope.

== INSTALL:

sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

gem "minitest" # ensures you"re using the gem, and not the built-in MT require "minitest/autorun"

# ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find\_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):

\* /opt/cola/permits/1808977602\_1695843474.9705997/0/minitest-minitest-v5-20-0-g6719ad8-tar-gz/minitestminitest-6719ad8/README.rdoc No license file was found, but licenses were detected in source scan.

# for more details.

Found in path(s):

\* /opt/cola/permits/1808977602\_1695843474.9705997/0/minitest-minitest-v5-20-0-g6719ad8-tar-gz/minitest-minitest-6719ad8/lib/minitest/benchmark.rb

## 1.16 net-protocol 0.2.1

### 1.16.1 Available under license :

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## **1.17 ruby-i18n 1.14.1** 1.17.1 Available under license :

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## 1.18 daemons 1.4.1

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## 1.19 json-for-ruby 2.6.3

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## 1.21 erubi 1.12.0

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## **1.22 base-64 0.1.1** 1.22.1 Available under license :

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## 1.23 rails-dom-testing 2.2.0

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## 1.24 ruby-net-ssh 7.2.0

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## 1.25 rails-html-sanitizer 1.6.0

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## 1.27 tzinfo 2.0.6

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## 1.28 mini-mime 1.1.5

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# 1.30 simplecov\_json\_formatter 0.1.4

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## 1.33 bcrypt\_pbkdf-ruby 1.1.0

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### 1.36 sshkit 1.21.5

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### 1.38 ed25519 1.3.0

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# 1.39 ruby-mail 2.8.1

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# 1.41 net-scp 4.0.0

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# 1.43 jfelchner-ruby-progressbar 1.13.0

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# 1.44 globalid 1.2.1

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### 1.46 zeitwerk 2.6.12

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### 1.47 connection-pool 2.4.1

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# 1.48 net-imap 0.4.4

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### 1.50 rubocop 1.57.2

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time: 2018-12-05T18:40:20-06:00 author: name: Nick LaMuro email: nicklamuro@gmail.com - time: 2018-12-05T18:37:36-06:00 author: name: Nick LaMuro email: nicklamuro@gmail.com - time: 2018-04-17T17:50:18+09:00 author: name: Yoshiyuki Hirano email: yhirano@me.com - time: 2018-04-17T12:46:09+09:00 author: name: Yoshiyuki Hirano email: yhirano@me.com - time: 2018-04-17T02:41:39+09:00 author: name: Yoshiyuki Hirano email: yhirano@me.com - time: 2018-04-13T21:48:52-07:00 author: name: Dillon Welch email: daw0328@gmail.com - time: 2018-04-11T13:16:59-07:00 author: name: Aaron Patterson email: aaron.patterson@gmail.com - time: 2017-06-21T21:15:17+12:00 author: name: Samuel Williams email: samuel.williams@oriontransfer.co.nz - time: 2017-04-17T00:32:39+09:00 author: name: Ryunosuke Sato email: tricknotes.rs@gmail.com - time: 2016-06-14T17:33:09-04:00 author: name: Sophie Deziel email: courrier@sophiedeziel.com - time: 2016-06-14T13:52:52-04:00 author: name: Sophie Deziel email: courrier@sophiedeziel.com - time: 2016-06-09T13:55:31-04:00 author: name: Sophie Deziel

email: courrier@sophiedeziel.com - time: 2016-03-02T15:52:16-08:00 author: name: James Tucker email: jftucker@gmail.com - time: 2015-08-30T03:36:29+02:00 author: name: deepj email: deepjungle.maca@gmail.com - time: 2015-03-27T19:44:18+09:00 author: name: Tadashi Saito email: tadashi\_saito@dwango.co.jp - time: 2015-05-25T04:18:16+02:00 author: name: deepj email: deepjungle.maca@gmail.com - time: 2015-05-26T14:18:00-07:00 author: name: Zachary Scott email: e@zzak.io - time: 2015-02-15T11:14:21+00:00 author: name: Sean McGivern email: sean@mcgivern.me.uk - time: 2015-01-06T10:45:23+00:00 author: name: Peter Wilmott email: p@p8952.info - time: 2014-10-01T18:09:37-05:00 author: name: Richard Schneeman email: richard.schneeman@gmail.com - time: 2014-09-01T07:52:39-07:00 author: name: Jeremy Kemper email: jeremykemper@gmail.com - time: 2014-04-09T10:12:07+04:00 author: name: Igor Bochkariov email: ujifgc@gmail.com - time: 2014-07-18T15:27:36-03:00 author: name: Rafael Mendona Frana email: rafael.franca@plataformatec.com.br - time: 2014-03-27T17:24:21-04:00 author:

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## 1.61 capistrano 3.18.0

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# 1.62 bundler 2.4.21

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