

Package ‘assertive.reflection’

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Type Package

Title Assertions for Checking the State of R

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Description A set of predicates and assertions for checking the state and capabilities of R, the operating system it is running on, and the IDE being used. This is mainly for use by other package developers who want to include run-time testing features in their own packages. End-users will usually want to use assertive directly.

URL <https://bitbucket.org/richierocks/assertive.reflection>

BugReports <https://bitbucket.org/richierocks/assertive.reflection/issues>

Depends R (>= 3.0.0)

Imports assertive.base (>= 0.0-7), utils

Suggests testthat

License GPL (>= 3)

LazyLoad yes

LazyData yes

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Collate 'imports.R' 'assert-is-32-64-bit.R' 'assert-is-current.R'
'assert-is-decimal-point.R' 'assert-is-ide.R'
'assert-is-on-os-path.R' 'assert-is-os.R' 'assert-is-r-mode.R'
'assert-is-r-version.R' 'assert-r-has-capability.R'
'is-32-64-bit.R' 'is-current.R' 'is-decimal-point.R' 'is-ide.R'
'is-on-os-path.R' 'is-os.R' 'is-r-mode.R' 'is-r-version.R'
'locale.R' 'r-has-capability.R'

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assert_all_are_on_os_path

Is the path on the OS path?

Description

Is the specified path on the operating system search path?

Usage

```
assert_all_are_on_os_path(x, severity = getOption("assertive.severity",
"stop"))
```

```
assert_any_are_on_os_path(x, severity = getOption("assertive.severity",
"stop"))
```

```
is_on_os_path(x, .xname = get_name_in_parent(x))
```

Arguments

x	An path to check.
severity	How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".
.xname	Not intended to be used directly.

Value

TRUE if the specified paths are on the OS search path.

Note

The OS search path is determined with `Sys.getenv("path")`. For files, the path of the containing folder is checked rather than the path of the file itself.

Examples

```
is_on_os_path(  
  c(R.home("bin"), R.home("etc"), "a nonexistent path")  
) # probably c(TRUE, FALSE, FALSE)
```

```
assert_is_64_bit_os  What OS is running?
```

Description

Is the operating system in this machine Windows/Unix/Mac based.

Usage

```
assert_is_64_bit_os(severity = getOption("assertive.severity", "stop"))  
assert_is_32_bit(severity = getOption("assertive.severity", "stop"))  
assert_is_64_bit(severity = getOption("assertive.severity", "stop"))  
assert_is_bsd(severity = getOption("assertive.severity", "stop"))  
assert_is_linux(severity = getOption("assertive.severity", "stop"))  
assert_is_mac(severity = getOption("assertive.severity", "stop"))  
assert_is_osx(severity = getOption("assertive.severity", "stop"))  
assert_is_osx_cheetah(severity = getOption("assertive.severity", "stop"))  
assert_is_osx_puma(severity = getOption("assertive.severity", "stop"))  
assert_is_osx_jaguar(severity = getOption("assertive.severity", "stop"))  
assert_is_osx_panther(severity = getOption("assertive.severity", "stop"))  
assert_is_osx_tiger(severity = getOption("assertive.severity", "stop"))
```

```
assert_is_osx_leopard(severity = getOption("assertive.severity", "stop"))
assert_is_osx_snow_leopard(severity = getOption("assertive.severity", "stop"))
assert_is_osx_lion(severity = getOption("assertive.severity", "stop"))
assert_is_osx_mountain_lion(severity = getOption("assertive.severity",
  "stop"))
assert_is_osx_mavericks(severity = getOption("assertive.severity", "stop"))
assert_is_osx_yosemite(severity = getOption("assertive.severity", "stop"))
assert_is_osx_el_capitan(severity = getOption("assertive.severity", "stop"))
assert_is_macos_sierra(severity = getOption("assertive.severity", "stop"))
assert_is_solaris(severity = getOption("assertive.severity", "stop"))
assert_is_unix(severity = getOption("assertive.severity", "stop"))
assert_is_windows(severity = getOption("assertive.severity", "stop"))
assert_is_windows_vista(severity = getOption("assertive.severity", "stop"))
assert_is_windows_7(severity = getOption("assertive.severity", "stop"))
assert_is_windows_8(severity = getOption("assertive.severity", "stop"))
assert_is_windows_8.1(severity = getOption("assertive.severity", "stop"))
assert_is_windows_10(severity = getOption("assertive.severity", "stop"))
assert_is_windows_server_2008(severity = getOption("assertive.severity",
  "stop"))
assert_is_windows_server_2008_r2(severity = getOption("assertive.severity",
  "stop"))
assert_is_windows_server_2012(severity = getOption("assertive.severity",
  "stop"))
assert_is_windows_server_2012_r2(severity = getOption("assertive.severity",
  "stop"))
is_64_bit_os()
is_32_bit()
```

`is_64_bit()`

`is_bsd()`

`is_linux()`

`is_mac()`

`is_osx()`

`is_osx_cheetah()`

`is_osx_puma()`

`is_osx_jaguar()`

`is_osx_panther()`

`is_osx_tiger()`

`is_osx_leopard()`

`is_osx_snow_leopard()`

`is_osx_lion()`

`is_osx_mountain_lion()`

`is_osx_mavericks()`

`is_osx_yosemite()`

`is_osx_el_capitan()`

`is_macos_sierra()`

`is_solaris()`

`is_unix()`

`is_windows()`

`is_windows_vista()`

`is_windows_7()`

`is_windows_8()`

```

is_windows_8.1()

is_windows_10()

is_windows_server_2008()

is_windows_server_2008_r2()

is_windows_server_2012()

is_windows_server_2012_r2()

```

Arguments

`severity` How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".

Value

`is_windows` returns TRUE if the OS on the current platform is Microsoft windows-based. `is_unix` returns TRUE if the OS is Unix based (pretty much anything that isn't Windows, including OS X). `is_mac`, `is_linux`, `is_bsd`, `is_solaris` return TRUE if the OS is Apple OS X, Linux, FreeBSD/NetBSD, or Solaris respectively. `is_64_bit_os` returns TRUE when the operating system is 64-bit. The `assert_*` functions return nothing but throw an error if the corresponding `is_*` functions return FALSE.

References

With the exception of `is_windows` and `is_unix` that use `.Platform$OS.type`, the OS is determined from `Sys.info()[["sysname"]]`, which (not on Windows) is calculated via the OS `uname` program. GNU has more information on the return value: https://www.gnu.org/software/libc/manual/html_node/Platform-Type.html and Wikipedia has a nice list of possible values: <https://en.wikipedia.org/wiki/Uname#Examples> The names for different versions of Windows are described in: <http://svn.r-project.org/R/trunk/src/library/utils/src/windows/util.c>

See Also

[.Platform](#), [Sys.info](#), [version](#), and [win.version](#).

Examples

```

is_unix()
is_linux()
is_bsd()
is_solaris()
if(is_windows())
{
  assertive.base::dont_stop({

```

```
    assert_is_windows_vista()
    assert_is_windows_7()
    assert_is_windows_8()
    assert_is_windows_8.1()
    assert_is_windows_10()
    assert_is_windows_server_2008()
    assert_is_windows_server_2008_r2()
    assert_is_windows_server_2012()
    assert_is_windows_server_2012_r2()
  })
}
if(is_osx()) # is_mac is a synonym
{
  assertive.base::dont_stop({
    assert_is_osx_cheetah()
    assert_is_osx_puma()
    assert_is_osx_jaguar()
    assert_is_osx_panther()
    assert_is_osx_tiger()
    assert_is_osx_leopard()
    assert_is_osx_snow_leopard()
    assert_is_osx_lion()
    assert_is_osx_mountain_lion()
    assert_is_osx_mavericks()
    assert_is_osx_yosemite()
    assert_is_osx_el_capitan()
    assert_is_macos_sierra() # note the change from OSX to macOS
  })
}
is_32_bit()
is_64_bit()
assertive.base::dont_stop(assert_is_windows())
assertive.base::dont_stop(assert_is_unix())
```

assert_is_architect *Are you running R?*

Description

Checks to see what type of R you are running.

Usage

```
assert_is_architect(severity = getOption("assertive.severity", "stop"))
```

```
assert_is_emacs(severity = getOption("assertive.severity", "stop"))
```

```
assert_is_revo_r(severity = getOption("assertive.severity", "stop"))
```

```
assert_is_rstudio(severity = getOption("assertive.severity", "stop"))
```

```
assert_is_rstudio_desktop(severity = getOption("assertive.severity", "stop"))
assert_is_rstudio_server(severity = getOption("assertive.severity", "stop"))
assert_is_visual_studio(severity = getOption("assertive.severity", "stop"))
assert_is_r(severity = getOption("assertive.severity", "stop"))
assert_is_r_alpha(severity = getOption("assertive.severity", "stop"))
assert_is_r_beta(severity = getOption("assertive.severity", "stop"))
assert_is_r_devel(severity = getOption("assertive.severity", "stop"))
assert_is_r_patched(severity = getOption("assertive.severity", "stop"))
assert_is_r_release_candidate(severity = getOption("assertive.severity",
"stop"))
assert_is_r_release(severity = getOption("assertive.severity", "stop"))
assert_is_r_revised(severity = getOption("assertive.severity", "stop"))
assert_is_r_stable(severity = getOption("assertive.severity", "stop"))
is_architect()
is_emacs()
is_revo_r()
is_rstudio()
is_visual_studio()
is_r()
is_r_alpha()
is_r_beta()
is_r_devel()
is_r_patched()
is_r_release_candidate()
```



```
is_r_release()
```

```
is_r_revised()
```

```
is_r_stable()
```

Arguments

severity How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".

Value

is_r wraps is.R, providing more information on failure. is_r_stable, is_r_patched, is_r_devel, etc., tell you what type of R build you are running. is_architect, is_rstudio and is_revo_r tell you if you are running Architect/StatET, RStudio, or Revolution Analytics' Revolution R build. is_slave_r tells you if you are running a slave instance of R (e.g. when building a package with devtools or using a cluster). The assert_* functions return nothing but throw an error if the corresponding is_* function returns FALSE.

References

<http://www.revolutionanalytics.com/revolution-r-open>

See Also

[is.R](#), [version](#), [isAvailable](#).

Examples

```
# If this is FALSE, you really need to ditch that old copy of S-PLUS
is_r()
assertive.base::dont_stop(assert_is_r())
# Release, patched, devel, etc.
is_r_release()
is_r_patched()
is_r_devel()
is_r_alpha()
is_r_beta()
is_r_release_candidate()
is_r_revised()
switch(
  version$status,
  Patched = assert_is_r_patched(),
  "Under development (unstable)" = assert_is_r_devel(),
  alpha = assert_is_r_alpha(),
  beta = assert_is_r_beta(),
  RC = assert_is_r_release_candidate(),
  Revised = assert_is_r_revised(),
  assert_is_r_release()
)
```

```
# IDE
is_architect()
is_emacs()
is_visual_studio()
is_rstudio()
# Custom R distribution
is_revo_r()
```

assert_is_batch_mode *How is R running?*

Description

Tests to see if R is running in batch mode/interactively.

Usage

```
assert_is_batch_mode(severity = getOption("assertive.severity", "stop"))
assert_is_interactive(severity = getOption("assertive.severity", "stop"))
assert_is_r_slave(severity = getOption("assertive.severity", "stop"))
assert_is_slave_r(severity = getOption("assertive.severity", "stop"))

is_batch_mode()

is_interactive()

is_r_slave()

is_slave_r()
```

Arguments

severity How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".

Value

`is_batch_mode` returns TRUE if R is running in batch mode. `is_interactive` returns TRUE if R is running interactively.

See Also

[EnvVar](#) and [interactive](#).

Examples

```
is_batch_mode()
is_interactive()
is_r_slave()
```

```
assert_is_comma_for_decimal_point
```

What does the current locale specify for the decimal point?

Description

Does the current locale specify a comma or a period for the decimal point?

Usage

```
assert_is_comma_for_decimal_point(severity = getOption("assertive.severity",
  "stop"))
```

```
assert_is_period_for_decimal_point(severity = getOption("assertive.severity",
  "stop"))
```

```
is_xxx_for_decimal_point(dp, type = c("numbers", "money"))
```

```
is_comma_for_decimal_point(type = c("numbers", "money"))
```

```
is_period_for_decimal_point(type = c("numbers", "money"))
```

Arguments

severity	How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".
dp	Character to be used as a decimal point.
type	Decimal point for numbers or money?

Value

`is_comma_for_decimal_point` returns TRUE when the current locale uses a comma for a decimal place, as determined by `Sys.localeconv`. Similarly, `is_period_for_decimal_point` returns TRUE when the current locale uses a period (a.k.a. full stop) for a decimal place. If R has been compiled without support for locales, then the value will always be NA.

References

<http://www.cplusplus.com/reference/locale/lconv/>

See Also

[Sys.localeconv](#)

Examples

```
# Current settings:
is_comma_for_decimal_point()
is_comma_for_decimal_point("money")
# Or equivalently:
is_period_for_decimal_point()
is_period_for_decimal_point("money")
# A useful guess for reading in files:
read_csv <- if(is_comma_for_decimal_point()) read.csv else read.csv2
## Not run:
# Force locale and test (may require admin rights)
current_locale <- sys_get_locale()
a_period_locale <- if(is_windows())
{
  "English_United Kingdom.1252"
} else if(is_mac())
{
  "en_GB"
} else if(is_linux())
{
  "en_GB.utf8"
} else
{
  "en"
}
sys_set_locale(LC_ALL = a_period_locale)
assert_is_period_for_decimal_point()
a_comma_locale <- if(is_windows())
{
  "French_France.1252"
} else if(is_mac())
{
  "fr_FR"
} else if(is_linux())
{
  "fr_FR.utf8"
} else
{
  "fr"
}
sys_set_locale(LC_ALL = a_comma_locale)
assert_is_comma_for_decimal_point()
suppressWarnings(sys_set_locale(l = current_locale))

## End(Not run)
```

`assert_is_package_current`*Is the installed version of a package current?*

Description

Checks to see if the installed version of a package is current.

Usage

```
assert_is_package_current(...)
```

```
assert_all_are_current_packages(x, lib.loc = .libPaths(),  
  repos = getOption("repos"), type = getOption("pkgType"),  
  severity = getOption("assertive.severity", "stop"))
```

```
assert_any_are_current_packages(x, lib.loc = .libPaths(),  
  repos = getOption("repos"), type = getOption("pkgType"),  
  severity = getOption("assertive.severity", "stop"))
```

```
is_package_current(x = NULL, lib.loc = .libPaths(),  
  repos = getOption("repos"), type = getOption("pkgType"),  
  .xname = get_name_in_parent(x))
```

Arguments

<code>...</code>	Passed to and from deprecated <code>assert_is_current_package</code> .
<code>x</code>	A character vector of package names, or <code>NULL</code> to check all installed packages.
<code>lib.loc</code>	A character vector of paths to local package libraries.
<code>repos</code>	A character vector of URLs to repositories to check for new package versions.
<code>type</code>	Check the repository for source or binary packages?
<code>severity</code>	How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".
<code>.xname</code>	Not intended to be used directly.

Value

`is_package_current` returns a logical vector that is `TRUE` whenever the package version matches the one in the repository. `NA` is returned for non-installed packages. The `assert_*` functions throw an error in the event of failure.

See Also

[old.packages](#), on which this is based, which has advanced usage features.

Examples

```
# This test is marked "dont-test" since it involves a connection to
# repositories which is potentially long running.
is_package_current(c("assertive.base", "assertive.reflection", "NONEXISTENTPKG"))
```

```
assert_is_rstudio_current
      Is RStudio the current version?
```

Description

Checks to see if the running version of RStudio is the current version.

Usage

```
assert_is_rstudio_current(severity = getOption("assertive.severity", "stop"))
is_rstudio_current()
```

Arguments

`severity` How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".

Value

`is_rstudio_current` returns TRUE or FALSE, and `assert_is_rstudio_current` throws an error in the event of an out of date RStudio. Non-RStudio IDEs throw an error.

References

This function is engineered from the `downloadUpdateInfo` function from <https://github.com/rstudio/rstudio/blob/master/src/cpp/session/modules/SessionUpdates.R> where the string for the OS is described in `beginUpdateCheck` from <https://github.com/rstudio/rstudio/blob/master/src/cpp/session/modules/SessionUpdates.cpp>

See Also

[is_rstudio](#), [is_rstudio_desktop](#)

assert_is_r_current *Is this version of R up to date?*

Description

Check if this version of R is as new as the current release version of R.

Usage

```
assert_is_r_current(severity = getOption("assertive.severity", "stop"))  
assert_is_current_r(severity = getOption("assertive.severity", "stop"))  
is_r_current(cran = getOption("repos", c(CRAN =  
  "http://cran.r-project.org"))["CRAN"])
```

Arguments

severity	How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".
cran	A string giving the URL of the CRAN repository to check.

Value

An object of class `R_system_version` giving the current release version of R.

Note

Development versions of R can have versions higher than the current release version of R. For convenience, these will return TRUE.

Examples

```
# This example is marked "don't test" since it requires an  
# internet connection and is potentially long running  
is_r_current()
```

`assert_r_can_find_tools`*Can R find tools?*

Description

Checks to see if R can see command line tools.

Usage

```
assert_r_can_find_tools(tools, severity = getOption("assertive.severity",
  "stop"))

assert_r_can_compile_code(severity = getOption("assertive.severity", "stop"))

assert_r_can_build_translations(severity = getOption("assertive.severity",
  "stop"))

assert_r_can_find_java(java_type = c("same_as_r", "any", "64bit", "32bit"),
  severity = getOption("assertive.severity", "stop"))

r_can_find_tools(tools)

r_can_compile_code()

r_can_build_translations()

r_can_find_java(java_type = c("same_as_r", "any", "64bit", "32bit"))
```

Arguments

<code>tools</code>	A character vector of tools to look for.
<code>severity</code>	How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".
<code>java_type</code>	A string denoting the type of Java to look for (either 32 or 64 bit).

Value

The `is_*` functions return TRUE if the input is within an interval. The `assert_*` functions return nothing but throw an error if the corresponding `is_*` function returns FALSE.

Note

`r_can_compile_code` is a convenience function looking for gcc and make.

`r_can_build_translations` is a convenience function looking for `gettext` and `msgfmt`.

See Also[Sys.which](#)**Examples**

```
r_can_find_tools(c("latex", "pdflatex"))
r_can_compile_code()
r_can_build_translations()
r_can_find_java()
assertive.base::dont_stop({
  assert_r_can_find_tools(c("latex", "pdflatex"))
  assert_r_can_compile_code()
  assert_r_can_build_translations()
  assert_r_can_find_java("64bit")
})
```

`assert_r_has_jpeg_capability`*Does R have a capability?*

Description

Check to see if R has a specific capability.

Usage

```
assert_r_has_jpeg_capability(severity = getOption("assertive.severity",
  "stop"))

assert_r_has_png_capability(severity = getOption("assertive.severity",
  "stop"))

assert_r_has_tiff_capability(severity = getOption("assertive.severity",
  "stop"))

assert_r_has_tcltk_capability(severity = getOption("assertive.severity",
  "stop"))

assert_r_has_x11_capability(severity = getOption("assertive.severity",
  "stop"))

assert_r_has_aqua_capability(severity = getOption("assertive.severity",
  "stop"))

assert_r_has_http_ftp_capability(severity = getOption("assertive.severity",
  "stop"))
```

```
assert_r_has_sockets_capability(severity = getOption("assertive.severity",
"stop"))

assert_r_has_libxml_capability(severity = getOption("assertive.severity",
"stop"))

assert_r_has_fifo_capability(severity = getOption("assertive.severity",
"stop"))

assert_r_has_cledit_capability(severity = getOption("assertive.severity",
"stop"))

assert_r_has_iconv_capability(severity = getOption("assertive.severity",
"stop"))

assert_r_has_nls_capability(severity = getOption("assertive.severity",
"stop"))

assert_r_has_profmem_capability(severity = getOption("assertive.severity",
"stop"))

assert_r_has_cairo_capability(severity = getOption("assertive.severity",
"stop"))

assert_r_has_icu_capability(severity = getOption("assertive.severity",
"stop"))

    assert_r_has_long_double_capability(severity = getOption("assertive.severity",
"stop"))

assert_r_has_libcurl_capability(severity = getOption("assertive.severity",
"stop"))

r_has_jpeg_capability()

r_has_png_capability()

r_has_tiff_capability()

r_has_tcltk_capability()

r_has_x11_capability()

r_has_aqua_capability()

r_has_http_ftp_capability()
```

```
r_has_sockets_capability()  
r_has_libxml_capability()  
r_has_fifo_capability()  
r_has_cledit_capability()  
r_has_iconv_capability()  
r_has_nls_capability()  
r_has_profmem_capability()  
r_has_cairo_capability()  
r_has_icu_capability()  
r_has_long_double_capability()  
r_has_libcurl_capability()
```

Arguments

<code>severity</code>	How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none".
-----------------------	---

Value

The `is_*` functions return TRUE if R has the capability and FALSE (with a cause) otherwise. The `assert_*` functions return nothing but throw an error if the corresponding `is_*` function returns FALSE.

See Also

[capabilities](#)

Examples

```
## Not run:  
if(r_has_png_capability())  
{  
  png("test.png")  
  with(cars, plot(speed, dist))  
  dev.off()  
} else  
{  
  pdf("test.pdf")  
  with(cars, plot(speed, dist))  
  dev.off()  
}
```

```
}  
## End(Not run)
```

```
is_rstudio_desktop    Is RStudio running in desktop or server mode?
```

Description

Checks for RStudio desktop or server version.

Usage

```
is_rstudio_desktop()  
  
is_rstudio_server()
```

References

The values that RStudio uses for its mode are defined in <https://github.com/rstudio/rstudio/blob/master/src/cpp/session/include/session/SessionConstants.hpp> via the constants `kSessionProgramModeDesktop` and `kSessionProgramModeServer`.

See Also

[is_rstudio](#), [is_rstudio_current](#)

Examples

```
is_rstudio_desktop()  
is_rstudio_server()
```

```
rstudio_version_info    Get RStudio's version information
```

Description

Wrapper to `.rs.api.versionInfo`.

Usage

```
rstudio_version_info()
```

sys_get_locale	<i>Get or set the system locale</i>
----------------	-------------------------------------

Description

Wrappers to `Sys.getlocale` and `Sys.setlocale` for getting and setting the system locale.

Usage

```
sys_get_locale(simplify = FALSE, remove_empty_categories = TRUE)
```

```
sys_set_locale(..., l = list())
```

Arguments

<code>simplify</code>	If TRUE, the locale settings are returned as a character vector, otherwise a list.
<code>remove_empty_categories</code>	if TRUE, don't include empty categories.
<code>...</code>	Name-value pairs of locale categories to set.
<code>l</code>	A list, as an alternative method of passing local categories to set.

Value

A named list or vector giving the system locale names. `sys_set_locale` invisibly returns the locale settings **before** making changes (like `setwd` and options do).

See Also

[Sys.getlocale](#).

Examples

```
(current_locale <- sys_get_locale())

# Output simplified to character vector
sys_get_locale(simplify = TRUE)
## Not run:
# Not run since it (temporarily) affects system settings
english <- if(is_windows()) "English.United_Kingdom" else
  if(is_mac()) "en_GB" else
  if(is_linux()) "en_GB.utf8" else
  "en"
sys_set_locale(LC_MONETARY = english)
sys_get_locale()
sys_set_locale(l = current_locale) #restore everything

## End(Not run)
```

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