Package 'sessioncheck'

Title Checks Session Status

Version 0.1

Description Provides tools to check variables contained in the user environment, and
inspect the currently loaded package namespaces. The intended use is to
allow user scripts to throw errors or warnings if unwanted variables exist
or if unwanted packages are loaded.

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Encoding UTF-8

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URL https://github.com/djnavarro/sessioncheck,
https://sessioncheck.djnavarro.net/

BugReports https://github.com/djnavarro/sessioncheck/issues

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Contents

check_attached_environments

Check environments attached to the search path

Description

Individual session check function that inspects the names of attached non-package environments. Session checkers can produce errors, warnings, or messages if requested.

Usage

```
check_attached_environments(
  action = "warn",
  allow_attached_environments = NULL
)
```

Arguments

action   Behaviour to take if the status is not clean. Possible values are "error", "warn", "message", and "none". The default is action = "warn".

allow_attached_environments

                Character vector containing names of environments that are "allowed", and will not trigger an action if attached to the search path.

Details

This checker inspects all environments on the search path. This includes attached packages, anything added using attach(), and the global environment. When allow_attached_environments = NULL, package environents do not trigger an action, nor do "tools:rstudio", "tools:positron", "tools:callr", or "Autoloads". The global environment and the package environment for the **base** package never trigger actions.

Value

Invisibly returns an object of class sessioncheck_status.

See Also

[check_attached_packages()](), [check_loaded_namespaces()](), [check_globalenv_objects()](), [check_attached_environ]() [check_sessiontime()](), [check_required_options()](), [check_required_locale()](), [check_required_sysenv()]()

Examples

```
check_attached_environments(action = "message")
```

---

check_attached_packages

Check attached packages

Description

Individual session check function that inspects the attached packages. Session checkers can produce errors, warnings, or messages if requested.

Usage

```
check_attached_packages(action = "warn", allow_attached_packages = NULL)
```

Arguments

action   Behaviour to take if the status is not clean. Possible values are "error", "warn", "message", and "none". The default is action = "warn".

allow_attached_packages
                Character vector containing names of packages that are "allowed", and will not trigger an action if attached to the search path.

Details

This checker inspects the list of packages that have been attached to the search path (e.g., via library()). Regardless of the value of allow, R packages that have "base" priority (e.g., **base**, **utils**, and **grDevices**) do not trigger an action. When allow = NULL these are the only packages that will not trigger actions.

Value

Invisibly returns an object of class sessioncheck_status.

See Also

[check_attached_packages()](), [check_loaded_namespaces()](), [check_globalenv_objects()](), [check_attached_environ]()
[check_sessiontime()](), [check_required_options()](), [check_required_locale()](), [check_required_sysenv()]()

Examples

```
check_attached_packages(action = "message")
```

---

check_globalenv_objects

Check global environment objects

Description

Individual session check functions that inspect the contents of the global environment and the names of attached non-package environments. Session checkers can produce errors, warnings, or messages if requested.

Usage

```
check_globalenv_objects(action = "warn", allow_globalenv_objects = NULL)
```

Arguments

action   Behaviour to take if the status is not clean. Possible values are "error", "warn", "message", and "none". The default is action = "warn".

allow_globalenv_objects

                  Character vector containing names of objects that are "allowed", and will not trigger an action.

Details

This checker inspects the state of the global environment and takes action based on the objects found there. When allow_globalenv_objects = NULL, variables in the global environment will not trigger an action if the name starts with a dot. For example, .Random.seed and .Last.value do not trigger actions by default.

Value

Invisibly returns an object of class sessioncheck_status.

See Also

[check_attached_packages()](#), [check_loaded_namespaces()](#), [check_globalenv_objects()](#), [check_attached_environ](#) [check_sessiontime()](#), [check_required_options()](#), [check_required_locale()](#), [check_required_sysenv()](#)

Examples

```
check_globalenv_objects(action = "message")
```

check_loaded_namespaces

Check loaded namespaces

Description

Individual session check function that inspects the loaded namespaces. Session checkers can produce errors, warnings, or messages if requested.

Usage

```
check_loaded_namespaces(action = "warn", allow_loaded_namespaces = NULL)
```

Arguments

action   Behaviour to take if the status is not clean. Possible values are "error", "warn",
                   "message", and "none". The default is action = "warn".

allow_loaded_namespaces
                   Character vector containing names of packages that are "allowed", and will not
                   trigger an action if loaded via namespace.

Details

(packages that have been loaded but not attached). Regardless of the value of allow_loaded_namespaces,
R packages that have "base" priority (e.g., **base**, **utils**, and **grDevices**) do not trigger an action, nor
does the **sessioncheck** package itself, since the package namespace must be loaded in order to call
the function.

Value

Invisibly returns an object of class sessioncheck_status.

See Also

check_attached_packages(), check_loaded_namespaces(), check_globalenv_objects(), check_attached_environ
check_sessiontime(), check_required_options(), check_required_locale(), check_required_sysenv()

Examples

```
check_loaded_namespaces(action = "message")
```

---

check_required_locale   *Check required values for locale settings*

Description

Individual session check function that inspects the locale settings. Session checkers can produce errors, warnings, or messages if requested.

Usage

```
check_required_locale(action = "warn", required_locale = NULL)
```

Arguments

action   Behaviour to take if the status is not clean. Possible values are "error", "warn", "message", and "none". The default is action = "warn".

required_locale
                A named list of required locale settings. If any of these are missing or have different values to the required values, an action is triggered.

Value

Invisibly returns an object of class sessioncheck_status.

See Also

[check_attached_packages()](), [check_loaded_namespaces()](), [check_globalenv_objects()](), [check_attached_environ]()
[check_sessiontime()](), [check_required_options()](), [check_required_locale()](), [check_required_sysenv()]()

Examples

```
check_required_locale(action = "message", required = list(LC_TIME = "en_US.UTF-8"))
```

---

check_required_options

Check required values for options

Description

Individual session check function that inspects the options. Session checkers can produce errors, warnings, or messages if requested.

Usage

```
check_required_options(action = "warn", required_options = NULL)
```

Arguments

action
: Behaviour to take if the status is not clean. Possible values are "error", "warn", "message", and "none". The default is `action = "warn"`.

required_options
: A named list of required options. If any of these options are missing or have different values to the required values, an action is triggered.

Value

Invisibly returns an object of class `sessioncheck_status`.

See Also

[check_attached_packages()](), [check_loaded_namespaces()](), [check_globalenv_objects()](), [check_attached_environ](), [check_sessiontime()](), [check_required_options()](), [check_required_locale()](), [check_required_sysenv()]()

Examples

```
check_required_options(action = "message", required_options = list(scipen = 0L, max.print = 50L))
```

---

check_required_sysenv   *Check required values for system environment variables*

Description

Individual session check function that inspects system environment variables. Session checkers can produce errors, warnings, or messages if requested.

Usage

```
check_required_sysenv(action = "warn", required_sysenv = NULL)
```

Arguments

action
: Behaviour to take if the status is not clean. Possible values are "error", "warn", "message", and "none". The default is `action = "warn"`.

required_sysenv
: A named list of required system environment variables. If any of these variables are missing or have different values to the required values, an action is triggered.

Value

Invisibly returns an object of class `sessioncheck_status`.

See Also

[check_attached_packages()](), [check_loaded_namespaces()](), [check_globalenv_objects()](), [check_attached_environ]()
[check_sessiontime()](), [check_required_options()](), [check_required_locale()](), [check_required_sysenv()]()

Examples

```
check_required_sysenv(action = "message", required_sysenv = list(R_TEST = "value"))
```

---

check_sessiontime   *Check session run time*

Description

Individual session check function that inspects the session run time information. Session checkers can produce errors, warnings, or messages if requested.

Usage

```
check_sessiontime(action = "warn", max_sessiontime = NULL)
```

Arguments

action   Behaviour to take if the status is not clean. Possible values are "error", "warn",
                   "message", and "none". The default is action = "warn".

max_sessiontime
                   Maximum session time permitted in seconds before the checker takes action

Value

Invisibly returns an object of class sessioncheck_status.

See Also

[check_attached_packages()](), [check_loaded_namespaces()](), [check_globalenv_objects()](), [check_attached_environ]()
[check_sessiontime()](), [check_required_options()](), [check_required_locale()](), [check_required_sysenv()]()

Examples

```
check_sessiontime(action = "message")
```

---

coercion_methods   *Coerce session check object to a data frame*

Description

Coerce session check object to a data frame

Usage

```
## S3 method for class 'sessioncheck_status'
as.data.frame(x, row.names = NULL, optional = FALSE, ...)

## S3 method for class 'sessioncheck_sessioncheck'
as.data.frame(x, row.names = NULL, optional = FALSE, ...)
```

Arguments

x	An object of class sessioncheck_status or sessioncheck_sessioncheck
row.names	Ignored
optional	Ignored
...	Ignored

Value

A data frame

---

display_methods   *Format and print sessioncheck objects*

Description

Format and print sessioncheck objects

Usage

```
## S3 method for class 'sessioncheck_status'
format(x, ...)

## S3 method for class 'sessioncheck_sessioncheck'
format(x, ...)

## S3 method for class 'sessioncheck_status'
print(x, ...)

## S3 method for class 'sessioncheck_sessioncheck'
print(x, ...)
```

Arguments

x	An object of class `sessioncheck_status` or `sessioncheck_sessioncheck`
...	Ignored

Value

Character vector

---

sessioncheck *Checks the overall status of the R session*

Description

Individual session check functions that each inspect one way in which an R session could be considered not to be "clean". Session checkers can produce errors, warnings, or messages if requested.

Usage

```
sessioncheck(action = NULL, checks = NULL, ...)
```

Arguments

action	Behaviour to take if the status is not clean. Possible values are "error", "warn", "message", and "none". If the user does not specify an action the default to set `action = "warn"`.
checks	Character vector listing the checks to run. If the user does not specify the checks, the default is to run `checks = c("globalenv_objects", "attached_packages", "attached_environments")`.
...	Arguments passed to individual checks.

Details

`sessioncheck()` allows the user to apply multiple session checks in a single function. The following arguments are recognised via `...`:

- `allow_globalenv_objects` is passed to `check_globalenv_objects()`
- `allow_attached_packages` is passed to `check_attached_packages()`
- `allow_attached_environments` is passed to `check_attached_environments()`
- `allow_loaded_namespaces` is passed to `check_loaded_namespaces()`
- `max_sessiontime` is passed to `check_sessiontime()`
- `required_options` is passed to `check_required_options()`
- `required_locale` is passed to `check_required_locale()`
- `required_sysenv` is passed to `check_required_sysenv()`

Other arguments are ignored.

Value

Invisibly returns an object of class `sessioncheck_sessioncheck`.

Examples

```
sessioncheck(action = "message")
```

Index