

# Package: animovement (via r-universe)

May 13, 2026

**Type** Package

**Title** An R toolbox for analysing movement across space and time

**Version** 0.7.3

**Description** An R toolbox for analysing movement across space and time.

**License** GPL-3 + file LICENSE

**URL** <https://animovement.dev>, <https://animovement.dev/animovement>,  
<https://github.com/animovement/animovement>

**BugReports** <https://github.com/animovement/animovement/issues>

**Encoding** UTF-8

**Depends** R (>= 4.1)

**Imports** aniframe, aniread, anispace, aniprocess, anicheck, animetric,  
anivis, cli

**Suggests** pak, here, knitr (>= 1.41), rmarkdown (>= 2.20), testthat (>= 3.0.0)

**Additional\_repositories** <https://animovement.r-universe.dev>

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.3

**NeedsCompilation** no

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**Repository** <https://animovement.r-universe.dev>

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animovement\_conflicts *Conflicts between the animovement and other packages*

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### Description

This function lists all the conflicts among *animovement* packages and between *animovement* packages and other attached packages. It can also be used to check conflicts for any other attached packages.

### Usage

```
animovement_conflicts(pkg = animovement_packages())
```

### Arguments

**pkg** character. A vector of packages to check conflicts for. The default is all *animovement* packages.

### Value

An object of class 'animovement\_conflicts': A named list of character vectors where the names are the conflicted objects, and the content are the names of the package namespaces containing the object, in the order they appear on the [search](#) path.

### See Also

[animovement](#)

### Examples

```
# Check conflicts between animovement packages and all attached packages
animovement_conflicts()

# Check conflicts among all attached packages
animovement_conflicts(sub("package:", "", search()[,-1]))
```

---

animovement_deps	<i>List all animovement dependencies</i>
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## Description

Lists all *animovement* dependencies and the local and CRAN versions of packages and dependencies.

## Usage

```
animovement_deps(  
  pkg = animovement_packages(),  
  recursive = FALSE,  
  repos = getOption("repos"),  
  include.self = FALSE,  
  check.deps = TRUE  
)
```

## Arguments

pkg	character vector of packages to check dependencies and versions of. The default is all <i>animovement</i> packages.
recursive	logical. TRUE recursively determines all packages required to operate these packages. FALSE will only list the packages and their direct dependencies.
repos	the repositories to use to check for updates. Defaults to <code>getOption("repos")</code> .
include.self	logical. TRUE also includes the <i>animovement</i> package and checks against the CRAN version.
check.deps	logical. FALSE will not determine dependencies but only display the update status of packages in pkg.

## Value

A data frame giving the package names, the CRAN and local version, and a logical variable stating whether the local version is behind the CRAN version.

## See Also

[animovement\\_sitrep](#), [animovement](#)

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animovement\_detach      *Detach animovement packages*

---

## Description

Detaches *animovement* packages, removing them from the [search](#) path.

## Usage

```
animovement_detach(
  ...,
  unload = FALSE,
  force = FALSE,
  include.self = TRUE,
  session = FALSE
)
```

## Arguments

...	comma-separated package names, quoted or unquoted, or vectors of package names. If left empty, all packages returned by <a href="#">animovement_packages</a> are detached.
unload	logical. TRUE also unloads the packages using <a href="#">detach(name, unload = TRUE)</a> .
force	logical. should a <i>animovement</i> package be detached / unloaded even though other attached packages depend on it?
include.self	logical. TRUE also includes the animovement package - only applicable if ... is left empty.
session	logical. TRUE also removes the packages from <code>options("animovement.extend")</code> , so they will not be attached again with <code>library(animovement)</code> in the current session. If ... is left empty and <code>include.self = TRUE</code> , this will clear <b>all</b> <i>animovement</i> options set for the session.

## Value

animovement\_detach returns NULL invisibly.

## See Also

[animovement\\_extend](#), [animovement](#)

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animovement\_extend      *Extend the animovement*

---

## Description

Loads additional packages as part of the *animovement*.

## Usage

```
animovement_extend(  
  ...,  
  install = FALSE,  
  check.conflicts = !isTRUE(getOption("animovement.quiet"))  
)
```

## Arguments

...	comma-separated package names, quoted or unquoted, or vectors of package names.
install	logical. Install packages not available?
check.conflicts	logical. Should conflicts between extension packages and attached packages be checked?

## Details

When the *animovement* is extended calling `animovement_extend(...)`, the packages that are not attached are attached, but conflicts are checked for all specified packages. An `options("animovement.extend")` is set which stores these extension packages, regardless of whether they were already attached or not. When calling [animovement\\_packages](#), [animovement\\_deps](#), [animovement\\_conflicts](#), [animovement\\_update](#), [animovement\\_sitrep](#) or [animovement\\_detach](#), these packages are included as part of the *animovement*. To extend the *animovement* for the current session when it is not yet loaded, users can also set `options(animovement.extend = c(...))`, where `c(...)` is a character vector of package names, before calling `library(animovement)`.

## Value

`animovement_extend` returns NULL invisibly.

## See Also

[animovement\\_detach](#), [animovement](#)

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animovement\_install    *Install (missing) animovement packages*

---

### Description

This function (by default) checks if any *animovement* package is missing and installs the missing package(s).

### Usage

```
animovement_install(..., only.missing = TRUE, install = TRUE)
```

### Arguments

...	comma-separated package names, quoted or unquoted, or vectors of package names. If left empty, all packages returned by <a href="#">animovement_packages</a> are checked.
only.missing	logical. TRUE only installs packages that are unavailable. FALSE installs all packages, even if they are available.
install	logical. TRUE will proceed to install packages, whereas FALSE (recommended) will print the installation command asking you to run it in a clean R session.

### Value

animovement\_install returns NULL invisibly.

### Note

There is also the possibility to set `options(animovement.install = TRUE)` before `library(animovement)`, which will call `animovement_install()` before loading any packages to make sure all packages are available. If you are using a `.animovement` configuration file inside a project (see vignette), you can also place `_opt_animovement.install = TRUE` before the list of packages in that file.

### See Also

[animovement\\_update](#), [animovement](#)

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`animovement_install_suggested`*Download all suggested packages*

---

## Description

In animovement, we have a minimal dependency policy to keep the package light and fast to install. However, we rely on several packages for testing and specific features. These "soft dependencies" can be downloaded at once using this function, allowing you to fully utilize all of animovement's functionalities without errors.

## Usage

```
animovement_install_suggested(package = "animovement")
```

```
animovement_show_suggested(package = "animovement")
```

## Arguments

package	Character string specifying the package name. Currently only "animovement" is supported.
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## Details

To reduce the dependency load, animovement by default will not download all internally needed packages. It will ask the user to download them only if they are needed. The current function can help install all packages that animovement and its ecosystem packages might need. `animovement_show_suggested()` is a convenient helper to show the current list of suggested packages.

This function will check the `Suggests` field of animovement and all its imported packages (`aniframe`, `aniread`, `aniprocess`, `animetric`, `anicheck`, `anivis`), excluding development packages (`knitr`, `rmarkdown`, `testthat`).

If package `{pak}` is installed, `pak::pkg_install()` will be used to install packages. Otherwise, `utils::install.packages()` is used with the animovement R-universe repository.

## Value

Invisible NULL. Used for side-effect of installing packages.

## Examples

```
# download all suggested packages
if (FALSE) {
  animovement_install_suggested("animovement")
}

# listing all soft/weak dependencies
animovement_show_suggested()
```

---

animovement\_packages *List all packages in the animovement*

---

### Description

Core packages are first fetched from a project-level configuration file (named `.animovement`, if found), otherwise the standard set of core packages is returned. In addition, if `extensions = TRUE`, any packages used to extend the *animovement* for the current session are also returned.

### Usage

```
animovement_packages(extensions = TRUE, include.self = TRUE)
```

### Arguments

`extensions` logical. TRUE appends the set of core packages with all packages found in `options("animovement.extend")`.

`include.self` logical. Include the *animovement* package in the list?

### Value

A character vector of package names.

### See Also

[animovement\\_extend](#), [animovement](#)

### Examples

```
animovement_packages()
```

---

animovement\_sitrep *Get a situation report on the animovement*

---

### Description

This function gives a quick overview of the version of R and all *animovement* packages (including availability updates for packages) and indicates whether any project-level configuration files are used.

### Usage

```
animovement_sitrep(...)
```

### Arguments

... arguments other than `pkg` passed to [animovement\\_deps](#).

**Value**

animovement\_sitrepreneur returns NULL invisibly.

**See Also**

[animovement\\_deps](#), [animovement](#)

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animovement_update	<i>Update animovement packages</i>
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**Description**

This will check all *animovement* packages (and their dependencies) for updates and (optionally) install those updates.

**Usage**

```
animovement_update(..., install = FALSE)
```

**Arguments**

...	arguments passed to <a href="#">animovement_deps</a> .
install	logical. TRUE will proceed to install outdated packages, whereas FALSE (recommended) will print the installation command asking you to run it in a clean R session.

**Value**

animovement\_update returns NULL invisibly.

**See Also**

[animovement\\_deps](#), [animovement](#)

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