

# Package: flir (via r-universe)

February 24, 2025

**Type** Package

**Title** Find and Fix Lints in R Code

**Version** 0.3.0

**Description** Lints are code patterns that are not optimal because they are inefficient, forget corner cases, or less readable. 'flir' provides a small set of functions to detect those lints and automatically fix them. It builds on 'astgrepr', which itself uses the Rust crate 'ast-grep' to parse and navigate R code.

**Depends** R (>= 4.2)

**Imports** astgrepr (>= 0.0.10), cli, crayon, data.table, digest, fs, git2r, rprojroot, yaml

**Suggests** glue, knitr, patrick, rex, rlang, rmarkdown, rstudioapi, testthat (>= 3.0.0), tibble, usethis, utils, withr

**Remotes** etiennebacher/astgrepr

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.3.2

**URL** <https://flir.etiennebacher.com>,  
<https://github.com/etiennebacher/flir>

**BugReports** <https://github.com/etiennebacher/flir/issues>

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**Roxygen** list(markdown = TRUE)

**VignetteBuilder** knitr

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**Config/pak/sysreqs** make libgit2-dev

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

**RemoteUrl** <https://github.com/etiennebacher/flir>

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`any_duplicated_linter` *Require usage of `anyDuplicated(x) > 0` over `any(duplicated(x))`*

---

**Description**

See [https://lintr.r-lib.org/reference/any\\_duplicated\\_linter](https://lintr.r-lib.org/reference/any_duplicated_linter).

**Usage**

`any_duplicated_linter`

---

`any_is_na_linter` *Require usage of `anyNA(x)` over `any(is.na(x))`*

---

**Description**

See [https://lintr.r-lib.org/reference/any\\_is\\_na\\_linter](https://lintr.r-lib.org/reference/any_is_na_linter).

**Usage**

`any_is_na_linter`

---

`class_equals_linter` *Block comparison of class with `==`*

---

**Description**

See [https://lintr.r-lib.org/reference/class\\_equals\\_linter](https://lintr.r-lib.org/reference/class_equals_linter).

**Usage**

`class_equals_linter`

condition\_message\_linter

*Block usage of paste() and paste0() with messaging functions using ...*

---

**Description**

See [https://lintr.r-lib.org/reference/condition\\_message\\_linter](https://lintr.r-lib.org/reference/condition_message_linter).

**Usage**

condition\_message\_linter

---

double\_assignment\_linter

*double\_assignment*

---

**Description**

double\_assignment

**Usage**

double\_assignment\_linter

---

duplicate\_argument\_linter

*Duplicate argument linter*

---

**Description**

See [https://lintr.r-lib.org/reference/duplicate\\_argument\\_linter](https://lintr.r-lib.org/reference/duplicate_argument_linter).

**Usage**

duplicate\_argument\_linter

---

`empty_assignment_linter`  
*empty\_assignment*

---

**Description**

`empty_assignment`

**Usage**

`empty_assignment_linter`

---

`equals_na_linter`      *Equality check with NA linter*

---

**Description**

See [https://lintr.r-lib.org/reference>equals\\_na\\_linter](https://lintr.r-lib.org/reference>equals_na_linter).

**Usage**

`equals_na_linter`

---

`equal_assignment_linter`  
*equal\_assignment*

---

**Description**

`equal_assignment`

**Usage**

`equal_assignment_linter`

expect\_comparison\_linter

*Require usage of expect\_gt(x, y) over expect\_true(x > y) (and similar)*

---

### Description

See [https://lintr.r-lib.org/reference/expect\\_comparison\\_linter](https://lintr.r-lib.org/reference/expect_comparison_linter).

### Usage

expect\_comparison\_linter

---

expect\_identical\_linter

*Require usage of expect\_identical(x, y) where appropriate*

---

### Description

See [https://lintr.r-lib.org/reference/expect\\_identical\\_linter](https://lintr.r-lib.org/reference/expect_identical_linter).

### Usage

expect\_identical\_linter

---

expect\_length\_linter *Require usage of expect\_length(x, n) over expect\_equal(length(x), n)*

---

### Description

See [https://lintr.r-lib.org/reference/expect\\_length\\_linter](https://lintr.r-lib.org/reference/expect_length_linter).

### Usage

expect\_length\_linter

---

expect_named_linter	<i>Require usage of expect_named(x, n) over expect_equal(names(x), n)</i>
---------------------	---

---

**Description**

See [https://lintr.r-lib.org/reference/expect\\_named\\_linter](https://lintr.r-lib.org/reference/expect_named_linter).

**Usage**

```
expect_named_linter
```

---

expect_not_linter	<i>Require usage of expect_false(x) over expect_true(!x)</i>
-------------------	--

---

**Description**

See [https://lintr.r-lib.org/reference/expect\\_not\\_linter](https://lintr.r-lib.org/reference/expect_not_linter).

**Usage**

```
expect_not_linter
```

---

expect_null_linter	<i>Require usage of expect_null for checking NULL</i>
--------------------	---

---

**Description**

See [https://lintr.r-lib.org/reference/expect\\_null\\_linter](https://lintr.r-lib.org/reference/expect_null_linter).

**Usage**

```
expect_null_linter
```

---

expect_true_false_linter	<i>Require usage of expect_true(x) over expect_equal(x, TRUE)</i>
--------------------------	---

---

**Description**

See [https://lintr.r-lib.org/reference/expect\\_true\\_false\\_linter](https://lintr.r-lib.org/reference/expect_true_false_linter).

**Usage**

```
expect_true_false_linter
```

---

expect_type_linter	<i>Require usage of</i>	expect_type(x, type)	<i>over</i>
		expect_equal(typeof(x), type)	

---

### Description

See [https://lintr.r-lib.org/reference/expect\\_type\\_linter](https://lintr.r-lib.org/reference/expect_type_linter).

### Usage

```
expect_type_linter
```

---

fix	<i>Automatically replace lints</i>
-----	------------------------------------

---

### Description

fix(), fix\_package(), and fix\_dir() all replace lints in files. The only difference is in the input they take:

- fix() takes path to files or directories
- fix\_dir() takes a path to one directory
- fix\_package() takes a path to the root of a package and looks at the following list of folders: R, tests, inst, vignettes, data-raw, demo, exec.

fix\_text() takes some text input. Its main interest is to be able to quickly experiment with some lints and fixes.

### Usage

```
fix(
  path = ".",
  linters = NULL,
  exclude_path = NULL,
  exclude_linters = NULL,
  force = FALSE,
  verbose = TRUE,
  rerun = TRUE
)
```

```
fix_dir(
  path = ".",
  linters = NULL,
  exclude_path = NULL,
  exclude_linters = NULL,
```

```

    force = FALSE,
    verbose = TRUE,
    rerun = TRUE
  )

  fix_package(
    path = ".",
    linters = NULL,
    exclude_path = NULL,
    exclude_linters = NULL,
    force = FALSE,
    verbose = TRUE,
    rerun = TRUE
  )

  fix_text(text, linters = NULL, exclude_linters = NULL, rerun = TRUE)

```

### Arguments

path	A valid path to a file or a directory. Relative paths are accepted.
linters	A character vector with the names of the rules to apply. See the entire list of rules with <code>list_linters()</code> .
exclude_path	One or several paths that will be ignored from the path selection.
exclude_linters	One or several linters that will not be checked. Values can be the names of linters (such as "any_is_na") or its associated function, such as <code>any_is_na_linter()</code> (this is mostly for compatibility with <code>lintr</code> ).
force	Force the application of fixes on the files. This is used only in the case where Git is not detected, several files will be modified, and the code is run in a non-interactive setting.
verbose	Show messages.
rerun	Run the function several times until there are no more fixes to apply. This is useful in the case of nested lints. If FALSE, the function runs only once, potentially ignoring nested fixes.
text	Text to analyze (and to fix if necessary).

### Ignoring lines

flir supports ignoring single lines of code with `# flir-ignore`. For example, this will not warn:

```
# flir-ignore
any(duplicated(x))
```

However, this will warn for the second `any(duplicated())`:

```
# flir-ignore
any(duplicated(x))
any(duplicated(y))
```

To ignore more than one line of code, use `# flir-ignore-start` and `# flir-ignore-end`:

```
# flir-ignore-start
any(duplicated(x))
any(duplicated(y))
# flir-ignore-end
```

## Examples

```
# `fix_text()` is convenient to explore with a small example
fix_text("any(duplicated(rnorm(5)))")

fix_text("any(duplicated(rnorm(5)))
any(is.na(x))
")

# Setup for the example with `fix()`
destfile <- tempfile()
cat("
x = c(1, 2, 3)
any(duplicated(x), na.rm = TRUE)

any(duplicated(x))

if (any(is.na(x))) {
  TRUE
}

any(
  duplicated(x)
)", file = destfile)

fix(destfile)
cat(paste(readLines(destfile), collapse = "\n"))
```

---

for\_loop\_index\_linter *Block usage of for loops directly overwriting the indexing variable*

---

## Description

See [https://lintr.r-lib.org/reference/for\\_loop\\_index\\_linter](https://lintr.r-lib.org/reference/for_loop_index_linter).

## Usage

```
for_loop_index_linter
```

---

`function_return_linter`*Lint common mistakes/style issues cropping up from return statements*

---

**Description**

See [https://lintr.r-lib.org/reference/function\\_return\\_linter](https://lintr.r-lib.org/reference/function_return_linter).

**Usage**`function_return_linter`

---

`implicit_assignment_linter`*implicit\_assignment*

---

**Description**`implicit_assignment`**Usage**`implicit_assignment_linter`

---

<code>is_numeric_linter</code>	<i>Redirect</i>	<code>is.numeric(x)    is.integer(x)</code>	<i>to</i>	<i>just</i>	<i>use</i>
		<code>is.numeric(x)</code>			

---

**Description**

See [https://lintr.r-lib.org/reference/is\\_numeric\\_linter](https://lintr.r-lib.org/reference/is_numeric_linter).

**Usage**`is_numeric_linter`

---

lengths_linter	<i>Require usage of lengths() where possible</i>
----------------	--

---

**Description**

See [https://lintr.r-lib.org/reference/lengths\\_linter](https://lintr.r-lib.org/reference/lengths_linter).

**Usage**

```
lengths_linter
```

---

length_levels_linter	<i>Require usage of nlevels over length(levels(.))</i>
----------------------	--

---

**Description**

See [https://lintr.r-lib.org/reference/length\\_levels\\_linter](https://lintr.r-lib.org/reference/length_levels_linter).

**Usage**

```
length_levels_linter
```

---

length_test_linter	<i>Check for a common mistake where length is applied in the wrong place</i>
--------------------	--

---

**Description**

See [https://lintr.r-lib.org/reference/length\\_test\\_linter](https://lintr.r-lib.org/reference/length_test_linter).

**Usage**

```
length_test_linter
```

---

library_call_linter	<i>Library call linter</i>
---------------------	----------------------------

---

**Description**

See [https://lintr.r-lib.org/reference/library\\_call\\_linter](https://lintr.r-lib.org/reference/library_call_linter).

**Usage**

```
library_call_linter
```

---

lint *List all lints in a file or a directory*

---

### Description

lint(), lint\_text(), lint\_package(), and lint\_dir() all produce a data.frame containing the lints, their location, and potential fixes. The only difference is in the input they take:

- lint() takes path to files or directories
- lint\_text() takes some text input
- lint\_dir() takes a path to one directory
- lint\_package() takes a path to the root of a package and looks at the following list of folders: R, tests, inst, vignettes, data-raw, demo, exec.

### Usage

```
lint(  
  path = ".",  
  linters = NULL,  
  exclude_path = NULL,  
  exclude_linters = NULL,  
  open = TRUE,  
  use_cache = TRUE,  
  verbose = TRUE  
)
```

```
lint_dir(  
  path = ".",  
  linters = NULL,  
  open = TRUE,  
  exclude_path = NULL,  
  exclude_linters = NULL,  
  use_cache = TRUE,  
  verbose = TRUE  
)
```

```
lint_package(  
  path = ".",  
  linters = NULL,  
  open = TRUE,  
  exclude_path = NULL,  
  exclude_linters = NULL,  
  use_cache = TRUE,  
  verbose = TRUE  
)
```

```
lint_text(text, linters = NULL, exclude_linters = NULL)
```

**Arguments**

path	A valid path to a file or a directory. Relative paths are accepted.
linters	A character vector with the names of the rules to apply. See the entire list of rules with <code>list_linters()</code> .
exclude_path	One or several paths that will be ignored from the path selection.
exclude_linters	One or several linters that will not be checked. Values can be the names of linters (such as "any_is_na") or its associated function, such as <code>any_is_na_linter()</code> (this is mostly for compatibility with <code>lintr</code> ).
open	If TRUE (default) and if this is used in the RStudio IDE, lints will be shown with markers.
use_cache	Do not re-parse files that haven't changed since the last time this function ran.
verbose	Show messages.
text	Text to analyze.

**Value**

A dataframe where each row is a lint. The columns show the text, its location (both the position in the text and the file in which it was found) and the severity.

**Ignoring lines**

`flir` supports ignoring single lines of code with `# flir-ignore`. For example, this will not warn:

```
# flir-ignore
any(duplicated(x))
```

However, this will warn for the second `any(duplicated())`:

```
# flir-ignore
any(duplicated(x))
any(duplicated(y))
```

To ignore more than one line of code, use `# flir-ignore-start` and `# flir-ignore-end`:

```
# flir-ignore-start
any(duplicated(x))
any(duplicated(y))
# flir-ignore-end
```

**Examples**

```
# `lint_text()` is convenient to explore with a small example
lint_text("any(duplicated(rnorm(5)))")

lint_text("any(duplicated(rnorm(5)))
any(is.na(x))
")

# Setup for the example with `lint()`
destfile <- tempfile()
cat("
x = c(1, 2, 3)
any(duplicated(x), na.rm = TRUE)

any(duplicated(x))

if (any(is.na(x))) {
  TRUE
}

any(
  duplicated(x)
)", file = destfile)

lint(destfile)
```

---

list\_comparison\_linter

*Block usage of comparison operators with known-list() functions like lapply*

---

**Description**

See [https://lintr.r-lib.org/reference/list\\_comparison\\_linter](https://lintr.r-lib.org/reference/list_comparison_linter).

**Usage**

```
list_comparison_linter
```

---

list\_linters

*Get the list of linters in flir*

---

**Description**

Get the list of linters in flir

**Usage**

```
list_linters()
```

**Value**

A character vector

**Examples**

```
list_linters()
```

---

```
literal_coercion_linter
```

*Require usage of correctly-typed literals over literal coercions*

---

**Description**

See [https://lintr.r-lib.org/reference/literal\\_coercion\\_linter](https://lintr.r-lib.org/reference/literal_coercion_linter).

**Usage**

```
literal_coercion_linter
```

---

```
matrix_apply_linter
```

*Require usage of colSums(x) or rowSums(x) over apply(x, ., sum)*

---

**Description**

See [https://lintr.r-lib.org/reference/matrix\\_apply\\_linter](https://lintr.r-lib.org/reference/matrix_apply_linter).

**Usage**

```
matrix_apply_linter
```

---

```
missing_argument_linter
```

*Missing argument linter*

---

**Description**

See [https://lintr.r-lib.org/reference/missing\\_argument\\_linter](https://lintr.r-lib.org/reference/missing_argument_linter).

**Usage**

```
missing_argument_linter
```

---

nested\_ifelse\_linter *Block usage of nested ifelse() calls*

---

**Description**

See [https://lintr.r-lib.org/reference/nested\\_ifelse\\_linter](https://lintr.r-lib.org/reference/nested_ifelse_linter).

**Usage**

nested\_ifelse\_linter

---

numeric\_leading\_zero\_linter  
*Require usage of a leading zero in all fractional numerics*

---

**Description**

See [https://lintr.r-lib.org/reference/numeric\\_leading\\_zero\\_linter](https://lintr.r-lib.org/reference/numeric_leading_zero_linter).

**Usage**

numeric\_leading\_zero\_linter

---

outer\_negation\_linter *Require usage of !any(x) over all(!x), !all(x) over any(!x)*

---

**Description**

See [https://lintr.r-lib.org/reference/outer\\_negation\\_linter](https://lintr.r-lib.org/reference/outer_negation_linter).

**Usage**

outer\_negation\_linter

---

package\_hooks\_linter *Package hooks linter*

---

**Description**

See [https://lintr.r-lib.org/reference/package\\_hooks\\_linter](https://lintr.r-lib.org/reference/package_hooks_linter).

**Usage**

package\_hooks\_linter

---

paste_linter	<i>Raise lints for several common poor usages of paste()</i>
--------------	--

---

**Description**

See [https://lintr.r-lib.org/reference/paste\\_linter](https://lintr.r-lib.org/reference/paste_linter).

**Usage**

```
paste_linter
```

---

redundant_equals_linter	<i>Block usage of ==, != on logical vectors</i>
-------------------------	---

---

**Description**

See [https://lintr.r-lib.org/reference/redundant\\_equals\\_linter](https://lintr.r-lib.org/reference/redundant_equals_linter).

**Usage**

```
redundant_equals_linter
```

---

redundant_ifelse_linter	<i>Prevent ifelse() from being used to produce TRUE/FALSE or 1/0</i>
-------------------------	--

---

**Description**

See [https://lintr.r-lib.org/reference/redundant\\_ifelse\\_linter](https://lintr.r-lib.org/reference/redundant_ifelse_linter).

**Usage**

```
redundant_ifelse_linter
```

---

rep_len_linter	<i>Require usage of rep_len(x, n) over rep(x, length.out = n)</i>
----------------	---

---

**Description**

See [https://lintr.r-lib.org/reference/rep\\_len\\_linter](https://lintr.r-lib.org/reference/rep_len_linter).

**Usage**

```
rep_len_linter
```

---

right\_assignment\_linter  
*right\_assignment*

---

**Description**

right\_assignment

**Usage**

right\_assignment\_linter

---

sample\_int\_linter      *Require usage of sample.int(n, m, ...) over sample(1:n, m, ...)*

---

**Description**

See [https://lintr.r-lib.org/reference/sample\\_int\\_linter](https://lintr.r-lib.org/reference/sample_int_linter).

**Usage**

sample\_int\_linter

---

semicolon\_linter      *Semicolon linter*

---

**Description**

See [https://lintr.r-lib.org/reference/semicolon\\_linter](https://lintr.r-lib.org/reference/semicolon_linter).

**Usage**

semicolon\_linter

---

seq\_linter      *Sequence linter*

---

**Description**

See [https://lintr.r-lib.org/reference/seq\\_linter](https://lintr.r-lib.org/reference/seq_linter).

**Usage**

seq\_linter

---

`setup_flir`*Setup flir*

---

**Description**

This stores the default rules and internal files in `inst/flir`. It also imports `sgconfig.yml` that is used by `ast-grep`. This file must live at the root of the project and cannot be renamed.

**Usage**

```
setup_flir(path = ".")
```

**Arguments**

`path` Path to package or project root.

**Value**

Imports files necessary for `flir` to work but doesn't return any value in R.

---

`setup_flir_gha`*Create a Github Actions workflow for flir*

---

**Description**

Create a Github Actions workflow for `flir`

**Usage**

```
setup_flir_gha(path = ".", overwrite = FALSE)
```

**Arguments**

`path` Root path to the package.

`overwrite` Whether to overwrite `.github/workflows/flir.yml` if it already exists.

**Value**

Creates `.github/workflows/flir.yml` but doesn't return any value.

---

sort_linter	<i>Check for common mistakes around sorting vectors</i>
-------------	---

---

**Description**

See [https://lintr.r-lib.org/reference/sort\\_linter](https://lintr.r-lib.org/reference/sort_linter).

**Usage**

```
sort_linter
```

---

stopifnot_all_linter	<i>Block usage of all() within stopifnot()</i>
----------------------	--

---

**Description**

See [https://lintr.r-lib.org/reference/stopifnot\\_all\\_linter](https://lintr.r-lib.org/reference/stopifnot_all_linter).

**Usage**

```
stopifnot_all_linter
```

---

todo_comment_linter	<i>TODO comment linter</i>
---------------------	----------------------------

---

**Description**

See [https://lintr.r-lib.org/reference/todo\\_comment\\_linter](https://lintr.r-lib.org/reference/todo_comment_linter).

**Usage**

```
todo_comment_linter
```

---

T_and_F_symbol_linter	<i>T and F symbol linter</i>
-----------------------	------------------------------

---

**Description**

See [https://lintr.r-lib.org/reference/T\\_and\\_F\\_symbol\\_linter](https://lintr.r-lib.org/reference/T_and_F_symbol_linter).

**Usage**

```
T_and_F_symbol_linter
```

---

undesirable\_function\_linter

*Undesirable function linter*

---

**Description**

See [https://lintr.r-lib.org/reference/undesirable\\_function\\_linter](https://lintr.r-lib.org/reference/undesirable_function_linter).

**Usage**

undesirable\_function\_linter

---

undesirable\_operator\_linter

*Undesirable operator linter*

---

**Description**

See [https://lintr.r-lib.org/reference/undesirable\\_operator\\_linter](https://lintr.r-lib.org/reference/undesirable_operator_linter).

**Usage**

undesirable\_operator\_linter

---

unnecessary\_nesting\_linter

*Block instances of unnecessary nesting*

---

**Description**

See [https://lintr.r-lib.org/reference/unnecessary\\_nesting\\_linter](https://lintr.r-lib.org/reference/unnecessary_nesting_linter).

**Usage**

unnecessary\_nesting\_linter

---

`unreachable_code_linter`*Block unreachable code and comments following return statements*

---

**Description**

See [https://lintr.r-lib.org/reference/unreachable\\_code\\_linter](https://lintr.r-lib.org/reference/unreachable_code_linter).

**Usage**

```
unreachable_code_linter
```

---

`update_flir`*Update the flir setup*

---

**Description**

When flir is updated, it can ship new built-in rules or update existing ones. `update_flir()` will automatically add those new rules to the `flir/rules/builtin` folder. Custom rules stored in `flir/rules/custom` are not affected.

**Usage**

```
update_flir(path = ".")
```

**Arguments**

`path` Path to package or project root.

**Value**

Can add new files in the `flir/rules` folder, doesn't return anything.

**Examples**

```
## Not run:  
  update_flir()  
  
## End(Not run)
```

---

which\_grepl\_linter     *Require usage of grep over which(grepl(.))*

---

**Description**

See [https://lintr.r-lib.org/reference/which\\_grepl\\_linter](https://lintr.r-lib.org/reference/which_grepl_linter).

**Usage**

which\_grepl\_linter

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