

# Package ‘fig’

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**Title** A Config Package with No ``Con"

**Version** 1.0.0

**Description** Work with configs with a source precedence. Either create own R6 instance or work with convenient functions at a package level.

**URL** <https://github.com/TymekDev/fig>

**BugReports** <https://github.com/TymekDev/fig/issues>

**License** MIT + file LICENSE

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## Description

Fig class is a main driver of this package. For usage details refer to Fig class methods documentation.

Fig provides a set of exported functions. This makes Fig class instance creation optional, and makes the package itself mimic being a class instance. Those functions are wrappers on an internal Fig object.

## Methods

### Public methods:

- `Fig$new()`
- `Fig$configure()`
- `Fig$delete()`
- `Fig$delete_all()`
- `Fig$get()`
- `Fig$get_many()`
- `Fig$get_all()`
- `Fig$store()`
- `Fig$store_list()`
- `Fig$store_many()`
- `Fig$clone()`

### Method `new()`: Create a New Fig Instance

#### Usage:

```
Fig$new(env_prefix = "", split_on = ".")
```

#### Arguments:

`env_prefix` (character) A prefix to be prepended to a key before system environment lookup.

`split_on` (character) A value to split keys on. See Details section. Providing an empty string disables this behavior.

*Details:* Fig treats character provided in `split_on` as key nest level delimiter. Therefore, `split_on` set to "." (default value) `fig$get("foo.bar")` is equivalent to `fig$get("foo")$bar`. Similarly `fig$set("foo.bar", 1)` is equivalent to `fig$set("foo", list(bar = 1))`. This behavior can be disabled either by passing an empty string either to `new()` during Fig instance creation or to `configure()` function to modify an existing instance.

*Returns:* New instance of Fig.

#### Examples:

```
fig <- Fig$new()
fig <- Fig$new(env_prefix = "RCONNECT_")
```

**Method** `configure()`: Configure a Fig Instance

*Usage:*

```
Fig$configure(env_prefix, split_on)
```

*Arguments:*

`env_prefix` (character) A prefix to be prepended to a key before system environment lookup. Pass an empty string to reset.

`split_on` (character) A value to split keys on. See Details section in `new()`. Providing an empty string disables this behavior.

*Details:* Unset arguments do not change configuration.

*Returns:* Reference to self. Other methods can be chained after this one.

*Examples:*

```
fig <- Fig$new(env_prefix = "RCONNECT_")
fig$configure(env_prefix = "foo_")
fig$configure(split_on = "")
fig$configure() # has no effect
```

**Method** `delete()`: Delete Stored Values

*Usage:*

```
Fig$delete(...)
```

*Arguments:*

... Keys to be deleted.

*Returns:* Reference to self. Other methods can be chained after this one.

*Examples:*

```
fig <- Fig$new()
fig$store_many("foo" = 1, "bar" = 2, "baz" = 3)
fig$delete("foo")
fig$delete("bar", "baz")
fig$get_many("foo", "bar", "baz") # == list(NULL, NULL, NULL)
```

**Method** `delete_all()`: Delete All Stored Values

*Usage:*

```
Fig$delete_all()
```

*Returns:* Reference to self. Other methods can be chained after this one.

*Examples:*

```
fig <- Fig$new()
fig$store_many("foo" = 1, "bar" = 2, "baz" = 3)
fig$delete_all()
fig$get_many("foo", "bar", "baz") # == list(NULL, NULL, NULL)
```

**Method** `get()`: Retrieve a Stored Value

*Usage:*

```
Fig$get(key)
```

*Arguments:*

key A key to retrieve a value for.

*Details:* This function returns values based on a following priority (highest to lowest). If value is not found, then it looks up next level in the precedence.

1. System environment variable (case sensitive)
2. Value manually set

For system environment lookup dots are replaced by underscores, e.g. `fig$get("foo.bar")` will look up **foo\_bar**.

*Returns:* A value associated with provided key.

*Examples:*

```
fig <- Fig$new()
fig$store("foo", 1)
fig$get("foo")

fig$store("bar", list(baz = 2))
fig$get("bar.baz")

fig$configure(split_on = "")
fig$get("bar.baz") # == NULL
```

**Method** `get_many()`: Retrieve Any Number of Stored Values*Usage:*

```
Fig$get_many(...)
```

*Arguments:*

... Keys to retrieve values for.

*Details:* See `get()` Details section.

*Returns:* An unnamed list of values associated with keys provided in ...

*Examples:*

```
fig <- Fig$new()
fig$store_many(foo = 1, bar = 2, baz = 3)
fig$get_many("foo", "bar")
```

**Method** `get_all()`: Retrieve All Stored Values*Usage:*

```
Fig$get_all()
```

*Details:* See `get()` Details section.

*Returns:* An unnamed list of all stored values.

*Examples:*

```
fig <- Fig$new()
fig$store_many(foo = 1, bar = 2, baz = 3)
fig$get_all()
```

**Method** `store()`: Store a Value

*Usage:*

```
Fig$store(key, value)
```

*Arguments:*

key A key to store a value for.

value A value to be stored.

*Returns:* Reference to self. Other methods can be chained after this one.

*Examples:*

```
fig <- Fig$new()
fig$store("foo", 1)
fig$store("bar", 123)$store("baz", list(1, 2, 3))
fig$store("x.y", "a")
```

**Method** `store_list()`: Store a List's Contents*Usage:*

```
Fig$store_list(l)
```

*Arguments:*

l (named list) Names are used as keys for storing their values.

*Returns:* Reference to self. Other methods can be chained after this one.

*Examples:*

```
fig <- Fig$new()
fig$store_list(list(foo = 123, bar = "abc"))
```

**Method** `store_many()`: Set Any Number of Values*Usage:*

```
Fig$store_many(...)
```

*Arguments:*

... Named arguments. Names are used as keys for storing argument values.

*Returns:* Reference to self. Other methods can be chained after this one.

*Examples:*

```
fig <- Fig$new()
fig$store_many("foo" = 1, "bar" = 2)
fig$store_many("foo.bar.baz" = 1)
fig$store_many("foo" = "a", "baz" = 123)
```

**Method** `clone()`: The objects of this class are cloneable with this method.*Usage:*

```
Fig$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Examples**

```

## -----
## Method `Fig$new`
## -----

fig <- Fig$new()
fig <- Fig$new(env_prefix = "RCONNECT_")

## -----
## Method `Fig$configure`
## -----

fig <- Fig$new(env_prefix = "RCONNECT_")
fig$configure(env_prefix = "foo_")
fig$configure(split_on = "")
fig$configure() # has no effect

## -----
## Method `Fig$delete`
## -----

fig <- Fig$new()
fig$store_many("foo" = 1, "bar" = 2, "baz" = 3)
fig$delete("foo")
fig$delete("bar", "baz")
fig$get_many("foo", "bar", "baz") # == list(NULL, NULL, NULL)

## -----
## Method `Fig$delete_all`
## -----

fig <- Fig$new()
fig$store_many("foo" = 1, "bar" = 2, "baz" = 3)
fig$delete_all()
fig$get_many("foo", "bar", "baz") # == list(NULL, NULL, NULL)

## -----
## Method `Fig$get`
## -----

fig <- Fig$new()
fig$store("foo", 1)
fig$get("foo")

fig$store("bar", list(baz = 2))
fig$get("bar.baz")

fig$configure(split_on = "")
fig$get("bar.baz") # == NULL

## -----
## Method `Fig$get_many`

```

```

## -----
fig <- Fig$new()
fig$store_many(foo = 1, bar = 2, baz = 3)
fig$get_many("foo", "bar")

## -----
## Method `Fig$get_all`
## -----

fig <- Fig$new()
fig$store_many(foo = 1, bar = 2, baz = 3)
fig$get_all()

## -----
## Method `Fig$store`
## -----

fig <- Fig$new()
fig$store("foo", 1)
fig$store("bar", 123)$store("baz", list(1, 2, 3))
fig$store("x.y", "a")

## -----
## Method `Fig$store_list`
## -----

fig <- Fig$new()
fig$store_list(list(foo = 123, bar = "abc"))

## -----
## Method `Fig$store_many`
## -----

fig <- Fig$new()
fig$store_many("foo" = 1, "bar" = 2)
fig$store_many("foo.bar.baz" = 1)
fig$store_many("foo" = "a", "baz" = 123)

```

---

fig\_configure

*Configure the Global Fig Instance*


---

## Description

This function allows modifying configuration of the global fig. Refer to argument descriptions for available options.

## Usage

```
fig_configure(env_prefix, split_on)
```

**Arguments**

env\_prefix (character) A prefix to be prepended to a key before system environment lookup. Pass an empty string to reset.

split\_on (character) A value to split keys on. See Details section in [Fig](#). Providing an empty string disables this behavior.

**Details**

Unset arguments do not change configuration.

**Value**

Reference to the global fig instance. Other methods can be chained after this one.

**Examples**

```
fig_configure(env_prefix = "foo_")
fig_configure(split_on = "")
fig_configure() # has no effect
```

---

fig_delete	<i>Delete Stored Values</i>
------------	-----------------------------

---

**Description**

These functions allow deleting values stored in the global fig instance.

**Usage**

```
fig_delete(...)

fig_delete_all()
```

**Arguments**

... Keys to be deleted.

**Value**

Reference to the global fig instance. Other methods can be chained after this one.

**Examples**

```
fig_store_many("foo" = 1, "bar" = 2, "baz" = 3)
fig_delete("foo")
fig_delete("bar", "baz")
fig_get_many("foo", "bar", "baz") # == list(NULL, NULL, NULL)
fig_store_many("foo" = 1, "bar" = 2, "baz" = 3)
fig_delete_all()
fig_get_many("foo", "bar", "baz") # == list(NULL, NULL, NULL)
```

---

fig_get	<i>Retrieve Stored Values</i>
---------	-------------------------------

---

### Description

These functions allow retrieving values stored in the global fig instance.

### Usage

```
fig_get(key)
```

```
fig_get_many(...)
```

```
fig_get_all()
```

### Arguments

key	A key to retrieve a value for.
...	Keys to retrieve values for.

### Details

These functions return values based on a following priority (highest to lowest). If value is not found, then it looks up next level in the precedence.

1. System environment variable (case sensitive)
2. Value manually set

For system environment lookup dots are replaced by underscores, e.g. `fig_get("foo.bar")` will look up **foo\_bar**.

### Value

A value associated with provided key.

An unnamed list of values associated with keys provided in ...

An unnamed list of all stored values.

### Examples

```
fig_store("foo", 1)
fig_get("foo")
```

```
fig_store("bar", list(baz = 2))
fig_get("bar.baz")
```

```
fig_configure(split_on = "")
fig_get("bar.baz") # == NULL
fig_store_many(foo = 1, bar = 2, baz = 3)
```

```
fig_get_many("foo", "bar")
fig_store_many(foo = 1, bar = 2, baz = 3)
fig_get_all()
```

---

fig\_store

*Store Values*

---

## Description

These functions allow storing values in the global fig instance.

## Usage

```
fig_store(key, value)
```

```
fig_store_list(l)
```

```
fig_store_many(...)
```

## Arguments

key	A key to store a value for.
value	A value to be stored.
l	(named list) Names are used as keys for storing their values.
...	Named arguments. Names are used as keys for storing argument values.

## Value

Reference to self. Other methods can be chained after this one.

## Examples

```
fig_store("foo", 1)
fig_store("bar", 123)$store("baz", list(1, 2, 3))
fig_store("x.y", "a")
fig_store_list(list(foo = 123, bar = "abc"))
fig_store_many("foo" = 1, "bar" = 2)
fig_store_many("foo.bar.baz" = 1)
fig_store_many("foo" = "a", "baz" = 123)
```

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