

The Clon Reference Manual

The Command-Line Options Nuker, version 1.0 beta 24 "Michael Brecker"



Didier Verna <didier@didierverna.net>

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1 Introduction

`Clon` is a library for managing command-line options in standalone Common-Lisp applications. It provides a unified option syntax with both short and long names, automatic completion of partial names and automatic retrieval/conversion of option arguments from the command-line, associated environment variables, fallback or default values. `Clon` comes with a set of extensible option types (switches, paths, strings *etc.*). `Clon` also provides automatic generation and formatting of help strings, with support for highlighting on `tty`'s through ISO/IEC 6429 SGR. This formatting is customizable through *themes*.

Depending on the target audience, `Clon` stands for either “The Command-Line Options Nuker” or “The Common-Lisp Options Nuker”. `Clon` also has a recursive acronym: “`Clon` Likes Options Nuking”, and a reverse one: “Never Omit to Link with `Clon`”. Other possible expansions of the acronym are still being investigated.

This is the `Clon` reference manual, and as such, it is not meant to be read. It may help you find sleep in case of insomnia though. `Clon` comes with two human-readable manuals:

- the “end-user manual” (see *The Clon End-User Manual*) is for the `Clon` *end-user*, that is, the user of an application powered by `Clon`. It describes how to use the command-line of clonified¹ applications and how to customize `Clon`'s output. Everybody should read this manual first.
- the “user manual” (see *The Clon End-User Manual*) is for the `Clon` *user*, that is, the developer of a Common-Lisp application who wants to use `Clon` for command-line option management. It describes how to clonify your application and extend the library with your own option types.

¹ An application using `Clon` for its command-line option management is said to be *clonified*. It is also possible to say *clonfiscated*. However, we advise against using *clonistified*. The term *clonificated* is also considered bad style, and the use of *clonificationated* is strictly prohibited.

2 Systems

The main system appears first, followed by any subsystem dependency.

2.1 `net.didierverna.clon`

Long Name

The Command-Line Options Nuker

Author Didier Verna

Contact `didier@didierverna.net`

Home Page

<http://www.lrde.epita.fr/~didier/software/lisp/clon.php>

Source Control

<https://github.com/didierverna/clon>

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Description

Command-line options management for standalone Common Lisp applications

Long Description

Clon is a library for command-line options management. It is intended to ease the creation of standalone Common Lisp applications by providing a powerful and uniform command-line options interface. The most important features of Clon are the following.

- From the application programmer's point of view: centralized command-line options specification and management, including automatic generation of help strings, conversion from command-line / defaults / fallbacks / environment variables to application-level option values, global or on-demand option retrieval, and extensibility (the programmer can define his own option types).

- From the application user's point of view: uniform command-line option syntax across all Clon applications, customization of the help strings layout (with optional ISO6429 coloring on terminals that support it), automatic completion of abbreviated option names and short/long/pack syntax.

Dependencies

- `[net.didierverna.clon.setup]`, page 7, (system)
- `[net.didierverna.clon.core]`, page 7, (system)
- `[net.didierverna.clon.termio]`, page 5, (system) (for feature `net.didierverna.clon.termio`)

Source `[net.didierverna.clon.asd]`, page 11, (Lisp file)

2.2 `net.didierverna.clon.termio`

Long Name

The Command-Line Options Nuker, termio library

Author Didier Verna

Contact `didier@didierverna.net`

Home Page

<http://www.lrde.epita.fr/~didier/software/lisp/clon.php>

Source Control

<https://github.com/didierverna/clon>

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Description

Clon's support for termio (tty geometry and fontification)

Long Description

Clon's termio library provides automatic detection of tty geometry and ISO6429 coloring on terminals that support it. For a more complete description of Clon, see the `net.didierverna.clon` system.

If Feature `net.didierverna.clon.termio`

Defsystem Dependencies

- `[net.didierverna.clon.setup/termio]`, page 6, (system)
- required module `sb-grovel` (for feature `sbcl`)

Dependencies

- `sb-posix` (for feature `sbcl`)
- `cffi` (for feature `(and clisp net.didierverna.clon.termio)`)
- `[net.didierverna.clon.core]`, page 7, (system)

Source `[net.didierverna.clon.termio.asd]`, page 11, (Lisp file)

Components

- `[sbcl/constants]`, page 11, (Lisp file)
- `[termio]`, page 11, (Lisp file)

2.3 `net.didierverna.clon.setup/termio`

Long Name

The Command-Line Options Nuker, termio setup

Author Didier Verna <didier@didierverna.net>

Contact didier@didierverna.net

Home Page

<http://www.lrde.epita.fr/~didier/software/lisp/clon.php>

Source Control

<https://github.com/didierverna/clon>

License BSD

Description

Clon's support for automatic configuration of termio support

Long Description

This is a virtual subsystem or Clon (no actual code). Its purpose is only to autodelect termio support and update Clon's preload configuration on load. For a more complete description of Clon, see the `net.didierverna.clon` system.

Dependency

`[net.didierverna.clon.setup]`, page 7, (system)

Source `[net.didierverna.clon.setup.asd]`, page 11, (Lisp file)

2.4 net.didierverna.clon.core

Long Name

The Command-Line Options Nuker, core library

Author Didier Verna

Contact didier@didierverna.net

Home Page

<http://www.lrde.epita.fr/~didier/software/lisp/clon.php>

Source Control

<https://github.com/didierverna/clon>

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Description

Clon's basic, platform-independent functionality

Long Description

Clon's core library provides the platform/feature independent part. For a more complete description of Clon, see the net.didierverna.clon system.

Dependencies

- [net.didierverna.clon.setup], page 7, (system)
- required module sb-posix (for feature sbcl)
- named-readtables

Source [net.didierverna.clon.core.asd], page 11, (Lisp file)

Components

- [meta], page 12, (Lisp file)
- [src], page 9, (module)

2.5 net.didierverna.clon.setup

Long Name

The Command-Line Options Nuker, setup library

Author Didier Verna

Contact didier@didierverna.net

Home Page

<http://www.lrde.epita.fr/~didier/software/lisp/clon.php>

Source Control

<https://github.com/didierverna/clon>

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Description

Clon's preload setup library

Long Description

Clon's setup library provides support for various preload configuration parameters. For a more complete description of Clon, see the net.didierverna.clon system.

Source [net.didierverna.clon.setup.asd], page 11, (Lisp file)

Component

[setup], page 25, (Lisp file)

3 Modules

Modules are listed depth-first from the system components tree.

3.1 core/src/

Dependency

[meta], page 12, (Lisp file)

Parent

[net.didierverna.clon.core], page 7, (system)

Location

core/src/

Components

- [util], page 12, (Lisp file)
- [item], page 13, (Lisp file)
- [text], page 13, (Lisp file)
- [options], page 9, (module)
- [container], page 18, (Lisp file)
- [group], page 18, (Lisp file)
- [retrieval], page 10, (module)
- [synopsis], page 20, (Lisp file)
- [output], page 10, (module)
- [context], page 24, (Lisp file)

3.2 core/src/options/

Dependency

[text], page 13, (Lisp file)

Parent

[src], page 9, (module)

Location

core/src/options/

Components

- [option], page 13, (Lisp file)
- [flag], page 14, (Lisp file)
- [valued], page 14, (Lisp file)
- [negatable], page 15, (Lisp file)
- [switch-base], page 15, (Lisp file)
- [switch], page 16, (Lisp file)
- [stropt], page 16, (Lisp file)
- [lispobj], page 16, (Lisp file)
- [path], page 17, (Lisp file)
- [enum-base], page 17, (Lisp file)
- [enum], page 17, (Lisp file)
- [xswitch], page 18, (Lisp file)

3.3 core/src/retrieval/

Dependency

[options], page 9, (module)

Parent [src], page 9, (module)

Location core/src/retrieval/

Components

- [cmdline], page 19, (Lisp file)
- [environ], page 19, (Lisp file)

3.4 core/src/output/

Dependencies

- [synopsis], page 20, (Lisp file)
- [retrieval], page 10, (module)

Parent [src], page 9, (module)

Location core/src/output/

Components

- [face], page 20, (Lisp file)
- [sheet], page 21, (Lisp file)

4 Files

Files are sorted by type and then listed depth-first from the systems components trees.

4.1 Lisp

4.1.1 net.didierverna.clon.asd

Location net.didierverna.clon.asd

Systems [net.didierverna.clon], page 5, (system)

4.1.2 net.didierverna.clon.termio.asd

Location termio/net.didierverna.clon.termio.asd

Systems [net.didierverna.clon.termio], page 5, (system)

4.1.3 net.didierverna.clon.core.asd

Location core/net.didierverna.clon.core.asd

Systems [net.didierverna.clon.core], page 7, (system)

4.1.4 net.didierverna.clon.setup.asd

Location setup/net.didierverna.clon.setup.asd

Systems

- [net.didierverna.clon.setup/termio], page 6, (system)
- [net.didierverna.clon.setup], page 7, (system)

4.1.5 termio/sbcl/constants.lisp

If Feature sbcl

Parent [net.didierverna.clon.termio], page 5, (system)

Location termio/sbcl/constants.lisp

4.1.6 termio/termio.lisp

Dependency

[sbcl/constants], page 11, (Lisp file)

Parent [net.didierverna.clon.termio], page 5, (system)

Location termio/termio.lisp

Internal Definitions

- [stream-ioctl-output-handle], page 88, (generic function)
- [stream-ioctl-output-handle], page 88, (method)
- [stream-ioctl-output-handle], page 88, (method)
- [stream-ioctl-output-handle], page 88, (method)
- [stream-ioctl-output-handle], page 88, (method)
- [stream-line-width], page 69, (function)

4.1.7 core/meta.lisp

Parent [net.didierverna.clon.core], page 7, (system)

Location core/meta.lisp

Packages [net.didierverna.clon], page 27,

Exported Definitions

[nickname-package], page 48, (function)

Internal Definitions

- [clindent], page 53, (function)
- [defindent], page 50, (macro)
- [i-reader], page 58, (function)
- [~-reader], page 70, (function)

4.1.8 core/src/util.lisp

Parent [src], page 9, (module)

Location core/src/util.lisp

Exported Definitions

- [cmdline], page 43, (function)
- [dump], page 42, (macro)
- [exit], page 43, (function)

Internal Definitions

- [*executablep*], page 50, (special variable)
- [abstract-class], page 100, (class)
- [accumulate], page 50, (macro)
- [beginning-of-string-p], page 53, (function)
- [closest-match], page 53, (function)
- [complete-string], page 54, (function)
- [copy-instance], page 75, (generic function)
- [copy-instance], page 75, (method)
- [declare-valid-superclass], page 50, (macro)
- [defabstract], page 50, (macro)
- [econd], page 51, (macro)
- [endpush], page 51, (macro)
- [error-string], page 76, (method)
- [(setf error-string)], page 76, (method)
- [getenv], page 57, (function)
- [home-directory], page 58, (function)
- [home-directory], page 93, (condition)
- [list-to-string], page 58, (function)
- [macosp], page 58, (function)
- [maybe-push], page 51, (macro)
- [putenv], page 64, (function)
- [remove-keys], page 65, (function)

- [replace-in-keys], page 52, (macro)
- [replace-key], page 65, (function)
- [replace-keys], page 66, (function)
- [select-keys], page 69, (function)

4.1.9 core/src/item.lisp

Dependency

[util], page 12, (Lisp file)

Parent [src], page 9, (module)

Location core/src/item.lisp

Internal Definitions

- [help-spec], page 77, (generic function)
- [help-spec], page 78, (method)
- [hiddenp], page 78, (method)
- [item], page 107, (class)
- [traversedp], page 90, (method)
- [(setf traversedp)], page 90, (method)
- [untraverse], page 90, (generic function)
- [untraverse], page 91, (method)

4.1.10 core/src/text.lisp

Dependency

[item], page 13, (Lisp file)

Parent [src], page 9, (module)

Location core/src/text.lisp

Exported Definitions

[make-text], page 47, (function)

Internal Definitions

- [contents], page 74, (method)
- [help-spec], page 78, (method)
- [make-internal-text], page 61, (function)
- [text], page 115, (class)
- [untraverse], page 91, (method)

4.1.11 core/src/options/option.lisp

Parent [options], page 9, (module)

Location core/src/options/option.lisp

Internal Definitions

- [check-name-clash], page 72, (generic function)
- [check-name-clash], page 72, (method)
- [check-name-clash], page 72, (method)
- [check-name-clash], page 73, (method)
- [description], page 75, (method)

- [env-var], page 76, (method)
- [help-spec], page 78, (method)
- [long-name], page 80, (method)
- [match-option], page 62, (function)
- [negated-pack-char], page 82, (generic function)
- [negated-pack-char], page 82, (method)
- [option], page 83, (method)
- [option], page 108, (class)
- [option-abbreviation-distance], page 62, (function)
- [option-error], page 96, (condition)
- [option-sticky-distance], page 83, (generic function)
- [option-sticky-distance], page 83, (method)
- [potential-pack-char], page 63, (function)
- [short-name], page 87, (method)
- [short-pack-char], page 87, (generic function)
- [short-pack-char], page 87, (method)
- [untraverse], page 91, (method)

4.1.12 core/src/options/flag.lisp

Dependency

[option], page 13, (Lisp file)

Parent [options], page 9, (module)

Location core/src/options/flag.lisp

Exported Definitions

[make-flag], page 45, (function)

Internal Definitions

- [flag], page 106, (class)
- [make-internal-flag], page 59, (function)

4.1.13 core/src/options/valued.lisp

Dependency

[option], page 13, (Lisp file)

Parent [options], page 9, (module)

Location core/src/options/valued.lisp

Internal Definitions

- [*item-names*], page 50, (special variable)
- [argument], page 70, (method)
- [argument-name], page 70, (method)
- [argument-required-p], page 70, (method)
- [check], page 71, (generic function)
- [comment], page 74, (method)
- [comment], page 74, (method)
- [convert], page 74, (generic function)

- [default-value], page 75, (method)
- [defoption], page 51, (macro)
- [fallback-value], page 76, (method)
- [help-spec], page 78, (method)
- [invalid-argument], page 94, (condition)
- [invalid-value], page 95, (condition)
- [option-sticky-distance], page 83, (method)
- [read-argument], page 64, (function)
- [read-value], page 65, (function)
- [restartable-check], page 66, (function)
- [restartable-convert], page 67, (function)
- [short-pack-char], page 87, (method)
- [short-syntax-help-spec-prefix], page 87, (generic function)
- [short-syntax-help-spec-prefix], page 88, (method)
- [stringify], page 88, (generic function)
- [value], page 91, (method)
- [valued-option], page 115, (class)

4.1.14 core/src/options/negatable.lisp

Dependency

[valued], page 14, (Lisp file)

Parent

[options], page 9, (module)

Location core/src/options/negatable.lisp

Internal Definitions

- [negatable], page 108, (class)
- [negated-pack-char], page 82, (method)
- [short-syntax-help-spec-prefix], page 88, (method)

4.1.15 core/src/options/switch-base.lisp

Dependency

[negatable], page 15, (Lisp file)

Parent

[options], page 9, (module)

Location core/src/options/switch-base.lisp

Internal Definitions

- [argument-style], page 70, (method)
- [argument-styles], page 71, (method)
- [(setf argument-styles)], page 71, (method)
- [no-values], page 82, (method)
- [(setf no-values)], page 82, (method)
- [switch-base], page 112, (class)
- [yes-values], page 91, (method)
- [(setf yes-values)], page 91, (method)

4.1.16 core/src/options/switch.lisp

Dependency

[switch-base], page 15, (Lisp file)

Parent [options], page 9, (module)

Location core/src/options/switch.lisp

Exported Definitions

[make-switch], page 47, (function)

Internal Definitions

- [check], page 72, (method)
- [convert], page 75, (method)
- [make-internal-switch], page 61, (function)
- [stringify], page 89, (method)
- [switch], page 112, (class)

4.1.17 core/src/options/stropt.lisp

Dependency

[valued], page 14, (Lisp file)

Parent [options], page 9, (module)

Location core/src/options/stropt.lisp

Exported Definitions

[make-stropt], page 46, (function)

Internal Definitions

- [check], page 72, (method)
- [convert], page 75, (method)
- [make-internal-stropt], page 60, (function)
- [stringify], page 89, (method)
- [stropt], page 112, (class)

4.1.18 core/src/options/lispobj.lisp

Dependency

[valued], page 14, (Lisp file)

Parent [options], page 9, (module)

Location core/src/options/lispobj.lisp

Exported Definitions

[make-lispobj], page 45, (function)

Internal Definitions

- [check], page 72, (method)
- [convert], page 74, (method)
- [lispobj], page 108, (class)
- [make-internal-lispobj], page 59, (function)
- [stringify], page 88, (method)
- [typespec], page 90, (method)

4.1.19 core/src/options/path.lisp

Dependency

[valued], page 14, (Lisp file)

Parent [options], page 9, (module)

Location core/src/options/path.lisp

Exported Definitions

[make-path], page 46, (function)

Internal Definitions

- [check], page 72, (method)
- [convert], page 74, (method)
- [directory-pathname-p], page 55, (function)
- [make-internal-path], page 60, (function)
- [path], page 110, (class)
- [path-type], page 84, (method)
- [pathname-component-null-p], page 63, (function)
- [split-path], page 69, (function)
- [stringify], page 88, (method)

4.1.20 core/src/options/enum-base.lisp

Parent [options], page 9, (module)

Location core/src/options/enum-base.lisp

Internal Definitions

- [enum], page 75, (method)
- [enum-base], page 103, (class)

4.1.21 core/src/options/enum.lisp

Dependencies

- [valued], page 14, (Lisp file)
- [enum-base], page 17, (Lisp file)

Parent [options], page 9, (module)

Location core/src/options/enum.lisp

Exported Definitions

[make-enum], page 44, (function)

Internal Definitions

- [check], page 72, (method)
- [convert], page 74, (method)
- [enum], page 102, (class)
- [make-internal-enum], page 59, (function)
- [stringify], page 88, (method)

4.1.22 core/src/options/xswitch.lisp

Dependencies

- [valued], page 14, (Lisp file)
- [switch-base], page 15, (Lisp file)
- [enum-base], page 17, (Lisp file)

Parent [options], page 9, (module)

Location core/src/options/xswitch.lisp

Exported Definitions

[make-xswitch], page 47, (function)

Internal Definitions

- [check], page 72, (method)
- [convert], page 74, (method)
- [make-internal-xswitch], page 61, (function)
- [stringify], page 88, (method)
- [xswitch], page 116, (class)

4.1.23 core/src/container.lisp

Dependency

[options], page 9, (module)

Parent [src], page 9, (module)

Location core/src/container.lisp

Internal Definitions

- [check-name-clash], page 72, (method)
- [check-name-clash], page 72, (method)
- [check-name-clash], page 72, (method)
- [container], page 100, (class)
- [help-spec], page 78, (method)
- [items], page 80, (method)
- [untraverse], page 91, (method)

4.1.24 core/src/group.lisp

Dependency

[container], page 18, (Lisp file)

Parent [src], page 9, (module)

Location core/src/group.lisp

Exported Definitions

- [defgroup], page 42, (macro)
- [make-group], page 45, (function)

Internal Definitions

- [%defgroup], page 50, (macro)
- [group], page 107, (class)
- [header], page 77, (method)
- [help-spec], page 78, (method)

4.1.25 `core/src/retrieval/cmdline.lisp`**Parent** `[retrieval]`, page 10, (module)**Location** `core/src/retrieval/cmdline.lisp`**Internal Definitions**

- `[argument]`, page 70, (method)
- `[argument-popable-p]`, page 53, (function)
- `[cmdline-convert]`, page 54, (function)
- `[cmdline-error]`, page 91, (condition)
- `[cmdline-option-error]`, page 92, (condition)
- `[invalid-cmdline-argument]`, page 94, (condition)
- `[invalid-negated-syntax]`, page 95, (condition)
- `[item]`, page 79, (method)
- `[maybe-pop-argument]`, page 51, (macro)
- `[missing-cmdline-argument]`, page 96, (condition)
- `[name]`, page 81, (method)
- `[option-call-p]`, page 62, (function)
- `[restartable-cmdline-convert]`, page 66, (function)
- `[restartable-invalid-negated-syntax-error]`, page 52, (macro)
- `[restartable-spurious-cmdline-argument-error]`, page 52, (macro)
- `[retrieve-from-long-call]`, page 85, (generic function)
- `[retrieve-from-long-call]`, page 85, (method)
- `[retrieve-from-long-call]`, page 85, (method)
- `[retrieve-from-negated-call]`, page 85, (generic function)
- `[retrieve-from-negated-call]`, page 85, (method)
- `[retrieve-from-negated-call]`, page 85, (method)
- `[retrieve-from-negated-call]`, page 85, (method)
- `[retrieve-from-short-call]`, page 86, (generic function)
- `[retrieve-from-short-call]`, page 86, (method)
- `[retrieve-from-short-call]`, page 86, (method)
- `[spurious-cmdline-argument]`, page 96, (condition)

4.1.26 `core/src/retrieval/environ.lisp`**Parent** `[retrieval]`, page 10, (module)**Location** `core/src/retrieval/environ.lisp`**Internal Definitions**

- `[env-val]`, page 76, (method)
- `[env-var]`, page 76, (method)
- `[environment-convert]`, page 55, (function)
- `[environment-error]`, page 93, (condition)
- `[environmental-option-error]`, page 93, (condition)
- `[invalid-environment-value]`, page 94, (condition)
- `[read-env-val]`, page 65, (function)

- [restartable-environment-convert], page 67, (function)
- [retrieve-from-environment], page 85, (generic function)
- [retrieve-from-environment], page 85, (method)
- [retrieve-from-environment], page 85, (method)
- [retrieve-from-environment], page 85, (method)

4.1.27 core/src/synopsis.lisp

Dependency

[group], page 18, (Lisp file)

Parent [src], page 9, (module)

Location core/src/synopsis.lisp

Exported Definitions

- [*synopsis*], page 41, (special variable)
- [defsynopsis], page 42, (macro)
- [make-synopsis], page 47, (function)

Internal Definitions

- [clon-options-group], page 73, (method)
- [do-options], page 51, (macro)
- [help-spec], page 77, (method)
- [mapoptions], page 81, (generic function)
- [mapoptions], page 81, (method)
- [mapoptions], page 81, (method)
- [mapoptions], page 81, (method)
- [mapoptions], page 81, (method)
- [negated-pack], page 82, (method)
- [postfix], page 84, (method)
- [potential-pack], page 84, (method)
- [potential-pack-p], page 84, (generic function)
- [potential-pack-p], page 84, (method)
- [short-pack], page 87, (method)
- [synopsis], page 114, (class)

4.1.28 core/src/output/face.lisp

Parent [output], page 10, (module)

Location core/src/output/face.lisp

Internal Definitions

- [*highlight-properties*], page 50, (special variable)
- [add-subface], page 52, (function)
- [attach-face-tree], page 53, (function)
- [background], page 71, (method)
- [blink], page 71, (method)
- [bottom-padding], page 71, (method)
- [concealedp], page 74, (method)

- [crossed-out-p], page 75, (method)
- [face], page 103, (class)
- [face-highlight-property-set-p], page 56, (function)
- [face-highlight-property-value], page 56, (function)
- [foreground], page 76, (method)
- [framedp], page 77, (method)
- [intensity], page 79, (method)
- [inversep], page 79, (method)
- [italicp], page 79, (method)
- [item-separator], page 79, (method)
- [left-padding], page 80, (method)
- [make-face-tree], page 80, (generic function)
- [make-face-tree], page 81, (method)
- [make-face-tree], page 81, (method)
- [make-raw-face-tree], page 61, (function)
- [name], page 81, (method)
- [parent], page 83, (method)
- [parent-generation], page 63, (function)
- [right-padding], page 86, (method)
- [search-branch], page 67, (function)
- [search-face], page 68, (function)
- [subface], page 89, (generic function)
- [subface], page 89, (method)
- [subface], page 89, (method)
- [subfaces], page 89, (method)
- [top-padding], page 90, (method)
- [underline], page 90, (method)
- [visiblep], page 91, (method)

4.1.29 core/src/output/sheet.lisp

Dependency

[face], page 20, (Lisp file)

Parent

[output], page 10, (module)

Location

core/src/output/sheet.lisp

Internal Definitions

- [available-right-margin], page 53, (function)
- [close-frame], page 73, (generic function)
- [close-frame], page 73, (method)
- [close-frame], page 73, (method)
- [close-line], page 53, (function)
- [close-sface], page 53, (function)
- [column], page 73, (method)
- [(setf column)], page 73, (method)

- [copy-frame], page 54, (function)
- [copy-highlight-frame], page 55, (function)
- [copy-highlight-property-instance], page 55, (function)
- [current-frame], page 55, (function)
- [current-left-margin], page 55, (function)
- [current-right-margin], page 55, (function)
- [current-sface], page 55, (function)
- [find-sface], page 56, (function)
- [flush-sheet], page 56, (function)
- [frame], page 98, (structure)
- [frame-left-margin], page 56, (function)
- [(setf frame-left-margin)], page 56, (function)
- [frame-p], page 56, (function)
- [frame-right-margin], page 56, (function)
- [(setf frame-right-margin)], page 56, (function)
- [frame-sface], page 56, (function)
- [(setf frame-sface)], page 56, (function)
- [frames], page 77, (method)
- [(setf frames)], page 77, (method)
- [get-bottom-padding], page 77, (generic function)
- [get-bottom-padding], page 77, (method)
- [get-bottom-padding], page 77, (method)
- [get-top-padding], page 57, (function)
- [help-spec-items-will-print], page 57, (function)
- [help-spec-will-print], page 78, (generic function)
- [help-spec-will-print], page 78, (method)
- [help-spec-will-print], page 78, (method)
- [help-spec-will-print], page 78, (method)
- [highlight-frame], page 99, (structure)
- [highlight-frame-highlight-property-instances], page 57, (function)
- [(setf highlight-frame-highlight-property-instances)], page 57, (function)
- [highlight-frame-left-margin], page 57, (function)
- [(setf highlight-frame-left-margin)], page 57, (function)
- [highlight-frame-p], page 57, (function)
- [highlight-frame-right-margin], page 57, (function)
- [(setf highlight-frame-right-margin)], page 57, (function)
- [highlight-frame-sface], page 57, (function)
- [(setf highlight-frame-sface)], page 57, (function)
- [highlight-property-ecase], page 51, (macro)
- [highlight-property-instance], page 99, (structure)
- [highlight-property-instance-escape-sequence], page 57, (function)
- [highlight-property-instance-name], page 57, (function)

- [(setf highlight-property-instance-name)], page 57, (function)
- [highlight-property-instance-p], page 58, (function)
- [highlight-property-instance-value], page 58, (function)
- [(setf highlight-property-instance-value)], page 58, (function)
- [highlightp], page 79, (method)
- [line-width], page 80, (method)
- [make-frame], page 58, (function)
- [make-highlight-frame], page 58, (function)
- [make-highlight-property-instance], page 59, (function)
- [make-raw-sface], page 62, (function)
- [make-sheet], page 62, (function)
- [map-frames], page 51, (macro)
- [open-frame], page 82, (generic function)
- [open-frame], page 83, (method)
- [open-frame], page 83, (method)
- [open-line], page 62, (function)
- [open-next-line], page 62, (function)
- [open-sface], page 62, (function)
- [output-stream], page 83, (method)
- [pop-frame], page 63, (function)
- [princ-char], page 63, (function)
- [princ-highlight-property-instances], page 63, (function)
- [princ-spaces], page 63, (function)
- [princ-string], page 63, (function)
- [print-faced-help-spec], page 64, (function)
- [print-help], page 64, (function)
- [print-help-spec], page 84, (generic function)
- [print-help-spec], page 84, (method)
- [print-help-spec], page 84, (method)
- [print-help-spec], page 84, (method)
- [print-help-spec], page 85, (method)
- [print-help-spec], page 85, (method)
- [print-string], page 64, (function)
- [push-frame], page 64, (function)
- [reach-column], page 64, (function)
- [read-sface-tree], page 65, (function)
- [safe-left-margin], page 67, (function)
- [safe-right-margin], page 67, (function)
- [sface], page 110, (class)
- [sface-tree], page 86, (method)
- [sheet], page 111, (class)
- [sibling], page 88, (method)
- [top-padding], page 90, (method)

- [top-padding], page 90, (method)
- [try-read-sface-tree], page 69, (function)
- [try-read-theme], page 69, (function)

4.1.30 core/src/context.lisp

Dependency

[output], page 10, (module)

Parent

[src], page 9, (module)

Location

core/src/context.lisp

Exported Definitions

- [*context*], page 41, (special variable)
- [cmdline-options-p], page 43, (function)
- [cmdline-p], page 43, (function)
- [do-cmdline-options], page 42, (macro)
- [getopt], page 44, (function)
- [getopt-cmdline], page 44, (function)
- [help], page 44, (function)
- [make-context], page 44, (function)
- [multiple-value-getopt-cmdline], page 43, (macro)
- [progname], page 48, (function)
- [remainder], page 48, (function)
- [with-context], page 43, (macro)

Internal Definitions

- [argument], page 70, (method)
- [clon-options-group], page 73, (method)
- [cmdline-junk-error], page 92, (condition)
- [cmdline-option], page 98, (structure)
- [cmdline-option-name], page 54, (function)
- [(setf cmdline-option-name)], page 54, (function)
- [cmdline-option-option], page 54, (function)
- [(setf cmdline-option-option)], page 54, (function)
- [cmdline-option-p], page 54, (function)
- [cmdline-option-source], page 54, (function)
- [(setf cmdline-option-source)], page 54, (function)
- [cmdline-option-value], page 54, (function)
- [(setf cmdline-option-value)], page 54, (function)
- [cmdline-options], page 73, (method)
- [(setf cmdline-options)], page 73, (method)
- [context], page 101, (class)
- [copy-cmdline-option], page 54, (function)
- [error-handler], page 76, (method)
- [exit-abnormally], page 55, (function)
- [highlight], page 78, (method)

- [invalid-negated-equal-syntax], page 95, (condition)
- [invalid-short-equal-syntax], page 95, (condition)
- [junk], page 80, (method)
- [line-width], page 80, (method)
- [make-cmdline-option], page 58, (function)
- [mapoptions], page 81, (method)
- [name], page 81, (method)
- [negated-call], page 81, (method)
- [negated-pack], page 82, (method)
- [postfix], page 84, (method)
- [potential-pack-p], page 84, (method)
- [print-error], page 64, (function)
- [read-call], page 65, (function)
- [read-long-name], page 65, (function)
- [restart-on-error], page 66, (function)
- [restartable-cmdline-junk-error], page 66, (function)
- [search-option], page 68, (function)
- [search-option-by-abbreviation], page 68, (function)
- [search-option-by-name], page 68, (function)
- [search-path], page 86, (method)
- [search-sticky-option], page 68, (function)
- [short-call], page 87, (method)
- [short-pack], page 87, (method)
- [synopsis], page 89, (method)
- [theme], page 89, (method)
- [unknown-cmdline-option-error], page 97, (condition)
- [unrecognized-negated-call-error], page 97, (condition)
- [unrecognized-short-call-error], page 97, (condition)
- [untraverse], page 90, (method)
- [with-context-error-handler], page 52, (macro)

4.1.31 setup/setup.lisp

Parent [net.didierverna.clon.setup], page 7, (system)

Location setup/setup.lisp

Packages [net.didierverna.clon.setup], page 39,

Exported Definitions

- [*release-major-level*], page 41, (special variable)
- [*release-minor-level*], page 41, (special variable)
- [*release-name*], page 41, (special variable)
- [*release-status*], page 41, (special variable)
- [*release-status-level*], page 41, (special variable)
- [configuration], page 43, (function)

- [configure], page 43, (function)
- [setup-termio], page 48, (function)
- [version], page 48, (function)

Internal Definitions

- [%version], page 52, (function)
- [*configuration*], page 49, (special variable)
- [release-status-number], page 65, (function)
- [restrict-because], page 67, (function)

5 Packages

Packages are listed by definition order.

5.1 `net.didierverna.clon`

The Command-Line Options Nuker package.

Source `[meta]`, page 12, (Lisp file)

Nickname `clon`

Use List

- `[net.didierverna.clon.setup]`, page 39,
- `common-lisp`

Exported Definitions

- `[*context*]`, page 41, (special variable)
- `[*synopsis*]`, page 41, (special variable)
- `[cmdline]`, page 43, (function)
- `[cmdline-options-p]`, page 43, (function)
- `[cmdline-p]`, page 43, (function)
- `[defgroup]`, page 42, (macro)
- `[defsynopsis]`, page 42, (macro)
- `[do-cmdline-options]`, page 42, (macro)
- `[dump]`, page 42, (macro)
- `[exit]`, page 43, (function)
- `[getopt]`, page 44, (function)
- `[getopt-cmdline]`, page 44, (function)
- `[help]`, page 44, (function)
- `[make-context]`, page 44, (function)
- `[make-enum]`, page 44, (function)
- `[make-flag]`, page 45, (function)
- `[make-group]`, page 45, (function)
- `[make-lispobj]`, page 45, (function)
- `[make-path]`, page 46, (function)
- `[make-stropt]`, page 46, (function)
- `[make-switch]`, page 47, (function)
- `[make-synopsis]`, page 47, (function)
- `[make-text]`, page 47, (function)
- `[make-xswitch]`, page 47, (function)
- `[multiple-value-getopt-cmdline]`, page 43, (macro)
- `[nickname-package]`, page 48, (function)
- `[progname]`, page 48, (function)
- `[remainder]`, page 48, (function)
- `[with-context]`, page 43, (macro)

Internal Definitions

- `[%defgroup]`, page 50, (macro)

- [`*executable*`], page 50, (special variable)
- [`*highlight-properties*`], page 50, (special variable)
- [`*item-names*`], page 50, (special variable)
- [`+tiocgwinsz+`], page 49, (constant)
- [`abstract-class`], page 100, (class)
- [`accumulate`], page 50, (macro)
- [`add-subface`], page 52, (function)
- [`allocate-winsize`], page 52, (function)
- [`argument`], page 70, (generic function)
- [`argument`], page 70, (method)
- [`argument`], page 70, (method)
- [`argument`], page 70, (method)
- [`argument-name`], page 70, (generic function)
- [`argument-name`], page 70, (method)
- [`argument-popable-p`], page 53, (function)
- [`argument-required-p`], page 70, (generic function)
- [`argument-required-p`], page 70, (method)
- [`argument-style`], page 70, (generic function)
- [`argument-style`], page 70, (method)
- [`argument-styles`], page 71, (generic function)
- [`argument-styles`], page 71, (method)
- [`(setf argument-styles)`], page 71, (method)
- [`(setf argument-styles)`], page 71, (generic function)
- [`attach-face-tree`], page 53, (function)
- [`available-right-margin`], page 53, (function)
- [`background`], page 71, (generic function)
- [`background`], page 71, (method)
- [`beginning-of-string-p`], page 53, (function)
- [`blink`], page 71, (generic function)
- [`blink`], page 71, (method)
- [`bottom-padding`], page 71, (generic function)
- [`bottom-padding`], page 71, (method)
- [`check`], page 71, (generic function)
- [`check`], page 72, (method)
- [`check`], page 72, (method)
- [`check`], page 72, (method)
- [`check`], page 72, (method)
- [`check`], page 72, (method)
- [`check`], page 72, (method)
- [`check`], page 72, (method)
- [`check-name-clash`], page 72, (generic function)
- [`check-name-clash`], page 72, (method)
- [`check-name-clash`], page 72, (method)
- [`check-name-clash`], page 72, (method)

- [check-name-clash], page 72, (method)
- [check-name-clash], page 72, (method)
- [check-name-clash], page 73, (method)
- [clindent], page 53, (function)
- [clon-options-group], page 73, (generic function)
- [clon-options-group], page 73, (method)
- [clon-options-group], page 73, (method)
- [close-frame], page 73, (generic function)
- [close-frame], page 73, (method)
- [close-frame], page 73, (method)
- [close-line], page 53, (function)
- [close-sface], page 53, (function)
- [closest-match], page 53, (function)
- [cmdline-convert], page 54, (function)
- [cmdline-error], page 91, (condition)
- [cmdline-junk-error], page 92, (condition)
- [cmdline-option], page 98, (structure)
- [cmdline-option-error], page 92, (condition)
- [cmdline-option-name], page 54, (function)
- [(setf cmdline-option-name)], page 54, (function)
- [cmdline-option-option], page 54, (function)
- [(setf cmdline-option-option)], page 54, (function)
- [cmdline-option-p], page 54, (function)
- [cmdline-option-source], page 54, (function)
- [(setf cmdline-option-source)], page 54, (function)
- [cmdline-option-value], page 54, (function)
- [(setf cmdline-option-value)], page 54, (function)
- [cmdline-options], page 73, (generic function)
- [cmdline-options], page 73, (method)
- [(setf cmdline-options)], page 73, (method)
- [(setf cmdline-options)], page 73, (generic function)
- [column], page 73, (generic function)
- [column], page 73, (method)
- [(setf column)], page 73, (method)
- [(setf column)], page 73, (generic function)
- [comment], page 74, (generic function)
- [comment], page 74, (method)
- [comment], page 74, (method)
- [complete-string], page 54, (function)
- [concealedp], page 74, (generic function)
- [concealedp], page 74, (method)
- [container], page 100, (class)
- [contents], page 74, (generic function)

- [contents], page 74, (method)
- [context], page 101, (class)
- [convert], page 74, (generic function)
- [convert], page 74, (method)
- [convert], page 74, (method)
- [convert], page 74, (method)
- [convert], page 74, (method)
- [convert], page 75, (method)
- [convert], page 75, (method)
- [copy-cmdline-option], page 54, (function)
- [copy-frame], page 54, (function)
- [copy-highlight-frame], page 55, (function)
- [copy-highlight-property-instance], page 55, (function)
- [copy-instance], page 75, (generic function)
- [copy-instance], page 75, (method)
- [crossed-out-p], page 75, (generic function)
- [crossed-out-p], page 75, (method)
- [current-frame], page 55, (function)
- [current-left-margin], page 55, (function)
- [current-right-margin], page 55, (function)
- [current-sface], page 55, (function)
- [declare-valid-superclass], page 50, (macro)
- [defabstract], page 50, (macro)
- [default-value], page 75, (generic function)
- [default-value], page 75, (method)
- [defindent], page 50, (macro)
- [defoption], page 51, (macro)
- [description], page 75, (generic function)
- [description], page 75, (method)
- [directory-pathname-p], page 55, (function)
- [do-options], page 51, (macro)
- [econd], page 51, (macro)
- [endpush], page 51, (macro)
- [enum], page 75, (generic function)
- [enum], page 75, (method)
- [enum], page 102, (class)
- [enum-base], page 103, (class)
- [env-val], page 76, (generic function)
- [env-val], page 76, (method)
- [env-var], page 76, (generic function)
- [env-var], page 76, (method)
- [env-var], page 76, (method)
- [environment-convert], page 55, (function)

- [environment-error], page 93, (condition)
- [environmental-option-error], page 93, (condition)
- [error-handler], page 76, (generic function)
- [error-handler], page 76, (method)
- [error-string], page 76, (generic function)
- [error-string], page 76, (method)
- [(setf error-string)], page 76, (method)
- [(setf error-string)], page 76, (generic function)
- [exit-abnormally], page 55, (function)
- [face], page 103, (class)
- [face-highlight-property-set-p], page 56, (function)
- [face-highlight-property-value], page 56, (function)
- [fallback-value], page 76, (generic function)
- [fallback-value], page 76, (method)
- [find-sface], page 56, (function)
- [flag], page 106, (class)
- [flush-sheet], page 56, (function)
- [foreground], page 76, (generic function)
- [foreground], page 76, (method)
- [frame], page 98, (structure)
- [frame-left-margin], page 56, (function)
- [(setf frame-left-margin)], page 56, (function)
- [frame-p], page 56, (function)
- [frame-right-margin], page 56, (function)
- [(setf frame-right-margin)], page 56, (function)
- [frame-sface], page 56, (function)
- [(setf frame-sface)], page 56, (function)
- [framedp], page 77, (generic function)
- [framedp], page 77, (method)
- [frames], page 77, (generic function)
- [frames], page 77, (method)
- [(setf frames)], page 77, (method)
- [(setf frames)], page 77, (generic function)
- [free-winsize], page 56, (function)
- [get-bottom-padding], page 77, (generic function)
- [get-bottom-padding], page 77, (method)
- [get-bottom-padding], page 77, (method)
- [get-top-padding], page 57, (function)
- [getenv], page 57, (function)
- [group], page 107, (class)
- [header], page 77, (generic function)
- [header], page 77, (method)
- [help-spec], page 77, (generic function)

- [help-spec], page 77, (method)
- [help-spec], page 78, (method)
- [help-spec], page 78, (method)
- [help-spec], page 78, (method)
- [help-spec], page 78, (method)
- [help-spec], page 78, (method)
- [help-spec], page 78, (method)
- [help-spec-items-will-print], page 57, (function)
- [help-spec-will-print], page 78, (generic function)
- [help-spec-will-print], page 78, (method)
- [help-spec-will-print], page 78, (method)
- [help-spec-will-print], page 78, (method)
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5.2 net.didierverna.clon.setup

The Command-Line Options Nuker, setup.

Source [setup], page 25, (Lisp file)

Use List common-lisp

Used By List

[net.didierverna.clon], page 27,

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- [release-status-number], page 65, (function)
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6 Definitions

Definitions are sorted by export status, category, package, and then by lexicographic order.

6.1 Exported definitions

6.1.1 Special variables

- *context*** [Special Variable]
 The current context.
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- *release-major-level*** [Special Variable]
 The major level of this release.
Package [net.didierverna.clon.setup], page 39,
Source [setup], page 25, (Lisp file)
- *release-minor-level*** [Special Variable]
 The minor level of this release.
Package [net.didierverna.clon.setup], page 39,
Source [setup], page 25, (Lisp file)
- *release-name*** [Special Variable]
 The name of this release.
 The general naming theme for Clon is "Great Jazz musicians".
Package [net.didierverna.clon.setup], page 39,
Source [setup], page 25, (Lisp file)
- *release-status*** [Special Variable]
 The status of this release.
Package [net.didierverna.clon.setup], page 39,
Source [setup], page 25, (Lisp file)
- *release-status-level*** [Special Variable]
 The status level of this release.
Package [net.didierverna.clon.setup], page 39,
Source [setup], page 25, (Lisp file)
- *synopsis*** [Special Variable]
 The current synopsis.
Package [net.didierverna.clon], page 27,
Source [synopsis], page 20, (Lisp file)

6.1.2 Macros

defgroup (*&rest KEYS &key HEADER HIDDEN*) *&body FORMS* [Macro]

Define a new group.

KEYS are initargs to MAKE-GROUP (currently, only :header).

Each form in FORMS will be treated as a new :item.

The CAR of each form is the name of the operation to perform: TEXT, GROUP, or an option class name. The rest are the arguments to the MAKE-<OP> function or the DEFGROUP macro.

Package [net.didierverna.clon], page 27,

Source [group], page 18, (Lisp file)

defsynopsis (*&rest KEYS &key POSTFIX MAKE-DEFAULT*) *&body FORMS* [Macro]

Define a new synopsis.

Package [net.didierverna.clon], page 27,

Source [synopsis], page 20, (Lisp file)

do-cmdline-options (*OPTION NAME VALUE SOURCE &key CONTEXT*) *&body BODY* [Macro]

Evaluate BODY over all command-line options in CONTEXT.

OPTION, NAME and VALUE are bound to each option's object, name used on the command-line and retrieved value.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

dump *NAME FUNCTION &rest ARGS* [Macro]

Dump a standalone executable named NAME starting with FUNCTION.

ARGS may be any arguments understood by the underlying implementation's dumping facility. They will simply be passed along. Note that DUMP already passes some such arguments. Some of them are critical for the dumping facility (e.g. :executable) and cannot be overridden. Some others, however, will be if you provide them as well (e.g. :load-init-file).

Since executable dumping is not available in all supported implementations, this function behaves differently in some cases, as described below.

- ECL doesn't create executables by dumping a Lisp image, but relies on having toplevel code to execute instead, so this macro simply expands to a call to FUNCTION. This also means that ARGS is unused.

- ABCL can't dump executables at all because of the underlying Java implementation, so this macro expands to just (PROGN) but creates a Java class file with a main function that creates an interpreter, loads

the file in which this macro call appears and calls FUNCTION. This also means that ARGS is unused.

Package [net.didierverna.clon], page 27,

Source [util], page 12, (Lisp file)

multiple-value-getopt-cmdline (*OPTION NAME VALUE SOURCE* **&key** *CONTEXT*) **&body** *BODY* [Macro]

Get the next command-line option in *CONTEXT*. and evaluate *BODY*.
OPTION, *NAME* and *VALUE* are bound to the values returned by *GETOPT-CMDLINE*.
BODY is executed only if there is a next command-line option.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

with-context *CONTEXT* **&body** *BODY* [Macro]

Execute *BODY* with **context** bound to *CONTEXT*.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

6.1.3 Functions

cmdline [Function]

Get the current application's command-line.

This command-line is not supposed to contain any Lisp implementation specific option; only user-level ones. When a standalone executable is dumped, this is always the case. When used interactively, this depends on the underlying Lisp implementation. See appendix A.5 of the user manual for more information.

Package [net.didierverna.clon], page 27,

Source [util], page 12, (Lisp file)

cmdline-options-p **&key** *CONTEXT* [Function]

Return T if *CONTEXT* has any unprocessed options left.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

cmdline-p **&key** *CONTEXT* [Function]

Return T if *CONTEXT* has anything on its command-line.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

configuration *KEY* [Function]

Return *KEY*'s value in the current Clon configuration.

Package [net.didierverna.clon.setup], page 39,

Source [setup], page 25, (Lisp file)

configure *KEY* *VALUE* [Function]

Set *KEY* to *VALUE* in the current Clon configuration.

Package [net.didierverna.clon.setup], page 39,

Source [setup], page 25, (Lisp file)

exit **&optional** *STATUS* [Function]

Quit the current application with *STATUS*.

Package [net.didierverna.clon], page 27,

Source [util], page 12, (Lisp file)

getopt *&rest KEYS &key CONTEXT SHORT-NAME LONG-NAME* [Function]
OPTION

Get an option's value in *CONTEXT*.

The option can be specified either by *SHORT-NAME*, *LONG-NAME*, or directly via an *OPTION* object.

Return two values:

- the retrieved value,
- the value's source.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

getopt-cmdline *&key CONTEXT* [Function]

Get the next command-line option in *CONTEXT*.

When there is no next command-line option, return nil.

Otherwise, return four values:

- the option object,
- the option's name used on the command-line,
- the retrieved value,
- the value source.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

help *&key CONTEXT ITEM OUTPUT-STREAM SEARCH-PATH* [Function]
THEME LINE-WIDTH HIGHLIGHT

Print *CONTEXT*'s help.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

make-context *&rest KEYS &key SYNOPSIS CMDLINE* [Function]
MAKE-CURRENT

Make a new context.

- *SYNOPSIS* is the program synopsis to use in that context.

It defaults to **SYNOPSIS**.

- *CMDLINE* is the argument list (strings) to process.

It defaults to a POSIX conformant argv.

- If *MAKE-CURRENT*, make the new context current.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

make-enum *&rest KEYS &key SHORT-NAME LONG-NAME* [Function]
DESCRIPTION ARGUMENT-NAME ARGUMENT-TYPE ENUM
ENV-VAR FALLBACK-VALUE DEFAULT-VALUE HIDDEN

Make a new enum option.

- *SHORT-NAME* is the option's short name (without the dash).

It defaults to nil.

- *LONG-NAME* is the option's long name (without the double-dash).

It defaults to nil.

- *DESCRIPTION* is the option's description appearing in help strings.

It defaults to nil.

- *ARGUMENT-NAME* is the option's argument name appearing in help strings.

- ARGUMENT-TYPE is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).

It defaults to :optional.

- ENUM is the set of possible values.

- ENV-VAR is the option's associated environment variable.

It defaults to nil.

- FALLBACK-VALUE is the option's fallback value (for missing optional arguments), if any.

- DEFAULT-VALUE is the option's default value, if any.

- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [enum], page 17, (Lisp file)

make-flag &rest KEYS &key SHORT-NAME LONG-NAME [Function]
DESCRIPTION ENV-VAR HIDDEN

Make a new flag.

- SHORT-NAME is the option's short name (without the dash).

It defaults to nil.

- LONG-NAME is the option's long name (without the double-dash).

It defaults to nil.

- DESCRIPTION is the option's description appearing in help strings.

It defaults to nil.

- ENV-VAR is the flag's associated environment variable.

It defaults to nil.

- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [flag], page 14, (Lisp file)

make-group &rest KEYS &key HEADER ITEM HIDDEN [Function]
Make a new group.

Package [net.didierverna.clon], page 27,

Source [group], page 18, (Lisp file)

make-lispobj &rest KEYS &key SHORT-NAME LONG-NAME [Function]
DESCRIPTION ARGUMENT-NAME ARGUMENT-TYPE ENV-VAR
TYPESPEC FALLBACK-VALUE DEFAULT-VALUE HIDDEN

Make a new lispobj option.

- SHORT-NAME is the option's short name (without the dash).

It defaults to nil.

- LONG-NAME is the option's long name (without the double-dash).

It defaults to nil.

- DESCRIPTION is the option's description appearing in help strings.

It defaults to nil.

- ARGUMENT-NAME is the option's argument name appearing in help strings.

- ARGUMENT-TYPE is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).

It defaults to :optional.

- ENV-VAR is the option's associated environment variable.

It defaults to nil.

- TYPESPEC is a type specifier the option's value should satisfy.

- FALLBACK-VALUE is the option's fallback value (for missing optional arguments), if any.

- DEFAULT-VALUE is the option's default value, if any.
- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [lispobj], page 16, (Lisp file)

make-path &rest KEYS &key SHORT-NAME LONG-NAME [Function]
 DESCRIPTION ARGUMENT-NAME ARGUMENT-TYPE ENV-VAR
 FALLBACK-VALUE DEFAULT-VALUE TYPE HIDDEN

Make a new path option.

- SHORT-NAME is the option's short name (without the dash).
It defaults to nil.
- LONG-NAME is the option's long name (without the double-dash).
It defaults to nil.
- DESCRIPTION is the option's description appearing in help strings.
It defaults to nil.
- ARGUMENT-NAME is the option's argument name appearing in help strings.
- ARGUMENT-TYPE is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).
It defaults to :optional.
- ENV-VAR is the option's associated environment variable.
It defaults to nil.
- FALLBACK-VALUE is the option's fallback value (for missing optional arguments), if any.
- DEFAULT-VALUE is the option's default value, if any.
- TYPE is the pathname type. It can be one of :file, :directory, :file-list, :directory-list or nil meaning that everything is allowed.
- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [path], page 17, (Lisp file)

make-stropt &rest KEYS &key SHORT-NAME LONG-NAME [Function]
 DESCRIPTION ARGUMENT-NAME ARGUMENT-TYPE ENV-VAR
 FALLBACK-VALUE DEFAULT-VALUE HIDDEN

Make a new string option.

- SHORT-NAME is the option's short name (without the dash).
It defaults to nil.
- LONG-NAME is the option's long name (without the double-dash).
It defaults to nil.
- DESCRIPTION is the option's description appearing in help strings.
It defaults to nil.
- ARGUMENT-NAME is the option's argument name appearing in help strings.
- ARGUMENT-TYPE is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).
It defaults to :optional.
- ENV-VAR is the option's associated environment variable.
It defaults to nil.
- FALLBACK-VALUE is the option's fallback value (for missing optional arguments), if any.
- DEFAULT-VALUE is the option's default value, if any.
- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [stropt], page 16, (Lisp file)

make-switch *&rest KEYS &key SHORT-NAME LONG-NAME* [Function]
DESCRIPTION ARGUMENT-STYLE ARGUMENT-TYPE ENV-VAR
DEFAULT-VALUE HIDDEN

Make a new switch.

- *SHORT-NAME* is the switch's short name (without the dash).

It defaults to nil.

- *LONG-NAME* is the switch's long name (without the double-dash).

It defaults to nil.

- *DESCRIPTION* is the switch's description appearing in help strings.

It defaults to nil.

- *ARGUMENT-STYLE* is the switch's argument display style. It can be one of *:yes/no*, *:on/off*, *:true/false*, *:yup/nope* or *:yeah/nah*.

It defaults to *:yes/no*.

- *ARGUMENT-TYPE* is one of *:required*, *:mandatory* or *:optional* (*:required* and *:mandatory* are synonyms).

It defaults to *:optional*.

- *ENV-VAR* is the switch's associated environment variable.

It defaults to nil.

- *DEFAULT-VALUE* is the switch's default value, if any.

- When *HIDDEN*, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [switch], page 16, (Lisp file)

make-synopsis *&rest KEYS &key POSTFIX ITEM MAKE-DEFAULT* [Function]
 Make a new SYNOPSIS.

- *POSTFIX* is a string to append to the program synopsis, in case it accepts a remainder.

- If *MAKE-DEFAULT*, make the new synopsis the default one.

Package [net.didierverna.clon], page 27,

Source [synopsis], page 20, (Lisp file)

make-text *&rest KEYS &key CONTENTS HIDDEN* [Function]

Make a new text.

- *CONTENTS* is the actual text to display.

- When *HIDDEN*, the text doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [text], page 13, (Lisp file)

make-xswitch *&rest KEYS &key SHORT-NAME LONG-NAME* [Function]
DESCRIPTION ARGUMENT-NAME ARGUMENT-TYPE ENUM
ENV-VAR DEFAULT-VALUE HIDDEN

Make a new xswitch.

- *SHORT-NAME* is the xswitch's short name (without the dash).

It defaults to nil.

- *LONG-NAME* is the xswitch's long name (without the double-dash).

It defaults to nil.

- *DESCRIPTION* is the xswitch's description appearing in help strings.

It defaults to nil.

- *ARGUMENT-NAME* is the option's argument name appearing in help strings.

- *ARGUMENT-TYPE* is one of *:required*, *:mandatory* or *:optional* (*:required* and *:mandatory* are synonyms).

It defaults to :optional.

- ENUM is the set of possible non-boolean values.
- ENV-VAR is the xswitch's associated environment variable.

It defaults to nil.

- DEFAULT-VALUE is the xswitch's default value, if any.
- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [xswitch], page 18, (Lisp file)

nickname-package **&optional** *NICKNAME* [Function]
Add NICKNAME (:CLON by default) to the :NET.DIDIERVERNA.CLON package.

Package [net.didierverna.clon], page 27,

Source [meta], page 12, (Lisp file)

prognam **&key** *CONTEXT* [Function]

Return CONTEXT's program name.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

remainder **&key** *CONTEXT* [Function]

Return CONTEXT's remainder.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

setup-termio [Function]

Autodetect termio support.

Update Clon configuration and *FEATURES* accordingly.

Package [net.didierverna.clon.setup], page 39,

Source [setup], page 25, (Lisp file)

version **&optional** *TYPE* [Function]

Return the current version of Clon.

TYPE can be one of :number, :short or :long.

A version number is computed as major*10000 + minor*100 + patchlevel, leaving two digits for each level. Alpha, beta and rc status are ignored in version numbers.

A short version is something like 1.3{a,b,rc}4, or 1.3.4 for patchlevel. Alpha, beta or rc levels start at 1. Patchlevels start at 0 but are ignored in the output, so that 1.3.0 appears as just 1.3.

A long version is something like

1.3 {alpha,beta,release candidate,patchlevel} 4 "Michael Brecker". As for the short version, a patchlevel of 0 is ignored in the output.

Package [net.didierverna.clon.setup], page 39,

Source [setup], page 25, (Lisp file)

6.2 Internal definitions

6.2.1 Constants

+tiocgwinsz+ [Constant]
NIL

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

offset-of-winsize-ws-col [Constant]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

offset-of-winsize-ws-row [Constant]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

offset-of-winsize-ws-xpixel [Constant]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

offset-of-winsize-ws-ypixel [Constant]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

size-of-winsize [Constant]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

6.2.2 Special variables

configuration [Special Variable]

The Clon configuration settings.

This variable contains a property list of configuration options.

Current options are:

- :swank-eval-in-emacs (Boolean)
- :restricted (Boolean)
- :dump (Boolean)

See section A.1 of the user manual for more information.

Package [net.didierverna.clon.setup], page 39,

Source [setup], page 25, (Lisp file)

- *executable*** [Special Variable]
 Whether the current Lisp image is a standalone executable dumped by Clon.
 This information is needed in some implementations that treat their command-line differently in dumped images.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- *highlight-properties*** [Special Variable]
 The highlight face properties.
Package [net.didierverna.clon], page 27,
Source [face], page 20, (Lisp file)
- *item-names*** [Special Variable]
 The list of defined item names.
Package [net.didierverna.clon], page 27,
Source [valued], page 14, (Lisp file)

6.2.3 Macros

- %defgroup** *INTERNALP (&rest KEYS &key HEADER HIDDEN) &body FORMS* [Macro]
 Define a new group.
Package [net.didierverna.clon], page 27,
Source [group], page 18, (Lisp file)
- accumulate** (*INITIAL-VALUE*) **&body** *BODY* [Macro]
 Accumulate *BODY* forms in a list beginning with *INITIAL-VALUE*.
INITIAL-VALUE is not evaluated. *BODY* forms are accumulated only when their value is non-nil.
 If nothing to accumulate, then return nil instead of the list of *INITIAL-VALUE*.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- declare-valid-superclass** *CLASS SUPERCLASS* [Macro]
 Validate *SUPERCLASS* classes for *CLASS* classes.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- defabstract** *CLASS SUPER-CLASSES SLOTS &rest OPTIONS* [Macro]
 Like *DEFCLASS*, but define an abstract class.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- defindent** *SYMBOL INDENT* [Macro]
 Set *SYMBOL*'s indentation to *INDENT* in (X)Emacs.
SYMBOL and *INDENT* need not be quoted.
 See *CLINDENT* for more information.
Package [net.didierverna.clon], page 27,
Source [meta], page 12, (Lisp file)

- defoption** *CLASS SUPERCLASSES SLOTS &rest OPTIONS* [Macro]
 Create a new option CLASS and register it with Clon.
- Package** [net.didierverna.clon], page 27,
Source [valued], page 14, (Lisp file)
- do-options** (*OPT THERE*) **&body** BODY [Macro]
 Execute BODY with OPT bound to every option in THERE.
- Package** [net.didierverna.clon], page 27,
Source [synopsis], page 20, (Lisp file)
- econd** **&body** CLAUSES [Macro]
 Like COND, but signal an error if no clause evaluates to t.
- Package** [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- endpush** OBJECT PLACE [Macro]
 Like push, but at the end.
- Package** [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- highlight-property-ecase** PROPERTY VALUE **&body** CLAUSES [Macro]
 Create an ECASE form to extract PROPERTY's VALUE escape sequence.
 Each clause looks like: (PROPERTY-NAME (VALUE-OR-VALUE-LIST ESCAPE-SEQUENCE)*). The value-matching part will itself be enclosed in an ECASE expression.
 In addition, the special clause syntax (BOOLEAN <PROPERTY-NAME> <YES> <NO>) is a shortcut for: (PROPERTY-NAME ((on t) YES) ((off nil) NO)).
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- map-frames** FUNCTION (*SHEET &key REVERSE*) [Macro]
 Map FUNCTION over SHEET's frames.
 If REVERSE, map in reverse order.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- maybe-pop-argument** CMDLINE OPTION CMDLINE-ARGUMENT [Macro]
 Pop OPTION's argument from CMDLINE if needed.
 If so, store it in CMDLINE-ARGUMENT.
- Package** [net.didierverna.clon], page 27,
Source [cmdline], page 19, (Lisp file)
- maybe-push** OBJECT PLACE [Macro]
 Like push, but only if OBJECT is non-nil.
- Package** [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)

`replace-in-keys` (*KEY VAL*) *KEYS THE-KEY FORM* [Macro]

Replace every occurrence of *THE-KEY* in *KEYS* with *FORM*.

At every *KEYS* round, *KEY* and *VAL* are bound to the current key-value pair.

FORM is evaluated each time and should return a key-value list.

Package [net.didierverna.clon], page 27,

Source [util], page 12, (Lisp file)

`restartable-invalid-negated-syntax-error` (*OPTION*) **&body** *BODY* [Macro]

Restartably throw an invalid-negated-syntax error.

The error relates to the command-line use of *OPTION*.

BODY constitutes the body of the only restart available,

use-short-call, and should act as if *OPTION* had been normally called by short name.

Package [net.didierverna.clon], page 27,

Source [cmdline], page 19, (Lisp file)

`restartable-spurious-cmdline-argument-error` (*OPTION NAME*
ARGUMENT) **&body** *BODY* [Macro]

Restartably throw a spurious-cmdline-argument error.

The error relates to the command-line use of *OPTION* called by *NAME* with *ARGUMENT*.

BODY constitutes the body of the only restart available, discard-argument, and should act as if *ARGUMENT* had not been provided.

Package [net.didierverna.clon], page 27,

Source [cmdline], page 19, (Lisp file)

`with-context-error-handler` *CONTEXT* **&body** *BODY* [Macro]

Execute *BODY* with *CONTEXT*'s error handler bound for *CONDITION*.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

`with-winsize` *VAR31* (**&rest** *FIELD-VALUES-32*) **&body** *BODY33* [Macro]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier
Lisp/clon/termio/sbcl/constants.lisp-temp

6.2.4 Functions

`%version` *TYPE MAJOR MINOR STATUS LEVEL NAME* [Function]

Package [net.didierverna.clon.setup], page 39,

Source [setup], page 25, (Lisp file)

`add-subface` *FACE SUBFACE* [Function]

Add *SUBFACE* to *FACE*'s subfaces and return it.

Package [net.didierverna.clon], page 27,

Source [face], page 20, (Lisp file)

`allocate-winsize` [Function]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier
Lisp/clon/termio/sbcl/constants.lisp-temp

- argument-popable-p** *CMDLINE* [Function]
 Return true if the first *CMDLINE* item is an argument.
Package [net.didierverna.clon], page 27,
Source [cmdline], page 19, (Lisp file)
- attach-face-tree** *FACE FACE-TREE &aux NEW-TREE* [Function]
 Create a copy of *FACE-TREE*, attach it to *FACE* and return it.
 Apart from the parenting information, the copied faces share slot values with the original ones.
Package [net.didierverna.clon], page 27,
Source [face], page 20, (Lisp file)
- available-right-margin** *SHEET* [Function]
 Return *SHEET*'s available right margin.
 This margin is the first non-self margin specified by a frame. All inner self frames can potentially write until the available right margin.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- beginning-of-string-p** *BEGINNING STRING &optional IGNORE-CASE &aux LENGTH* [Function]
 Check that *STRING* starts with *BEGINNING*.
 If *IGNORE-CASE*, well, ignore case.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- clindent** *SYMBOL INDENT* [Function]
 Set *SYMBOL*'s indentation to *INDENT* in (X)Emacs.
 This function sets *SYMBOL*'s common-lisp-indent-function property.
 If *INDENT* is a symbol, use its indentation definition.
 Otherwise, *INDENT* is considered as an indentation definition.
Package [net.didierverna.clon], page 27,
Source [meta], page 12, (Lisp file)
- close-line** *SHEET* [Function]
 Close all frames on *SHEET*'s current line and go to next line.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- close-sface** *SHEET* [Function]
 Close *SHEET*'s current sface.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- closest-match** *MATCH LIST &key IGNORE-CASE KEY &aux MATCH-LENGTH SHORTEST-DISTANCE CLOSEST-MATCH* [Function]
 Return the *LIST* element closest to *MATCH*, or nil.
 If *IGNORE-CASE*, well, ignore case.
KEY should provide a way to get a string from each *LIST* element.
Package [net.didierverna.clon], page 27,

- Source** [util], page 12, (Lisp file)
- cmdline-convert** *VALUED-OPTION CMDLINE-NAME* [Function]
CMDLINE-ARGUMENT
 Convert CMDLINE-ARGUMENT to VALUED-OPTION's value.
 This function is used when the conversion comes from a command-line usage of VALUED-OPTION, called by CMDLINE-NAME, and intercepts invalid-argument errors to raise the higher level invalid-cmdline-argument error instead.
- Package** [net.didierverna.clon], page 27,
Source [cmdline], page 19, (Lisp file)
- cmdline-option-name** *INSTANCE* [Function]
 (setf cmdline-option-name) *VALUE INSTANCE* [Function]
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- cmdline-option-option** *INSTANCE* [Function]
 (setf cmdline-option-option) *VALUE INSTANCE* [Function]
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- cmdline-option-p** *OBJECT* [Function]
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- cmdline-option-source** *INSTANCE* [Function]
 (setf cmdline-option-source) *VALUE INSTANCE* [Function]
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- cmdline-option-value** *INSTANCE* [Function]
 (setf cmdline-option-value) *VALUE INSTANCE* [Function]
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- complete-string** *BEGINNING COMPLETE* [Function]
 Complete BEGINNING with the rest of COMPLETE in parentheses.
 For instance, completing 'he' with 'help' will produce 'he(lp)'.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- copy-cmdline-option** *INSTANCE* [Function]
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- copy-frame** *INSTANCE* [Function]
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)

- `copy-highlight-frame` *INSTANCE* [Function]
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `copy-highlight-property-instance` *INSTANCE* [Function]
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `current-frame` *SHEET* [Function]
Return SHEET's current frame.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `current-left-margin` *SHEET* [Function]
Return SHEET's current left margin.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `current-right-margin` *SHEET* [Function]
Return SHEET's current right margin.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `current-sface` *SHEET* [Function]
Return SHEET's current sface or nil.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `directory-pathname-p` *PATHNAME* [Function]
Return true if PATHNAME denotes a directory.
Package [net.didierverna.clon], page 27,
Source [path], page 17, (Lisp file)
- `environment-convert` *VALUED-OPTION ENV-VAL* [Function]
Convert ENV-VAL to VALUED-OPTION's value.
This function is used when the conversion comes from an environment variable associated with VALUED-OPTION, and intercepts invalid-argument errors to raise the higher level invalid-environment-value error instead.
Package [net.didierverna.clon], page 27,
Source [environ], page 19, (Lisp file)
- `exit-abnormally` *ERROR* [Function]
Print ERROR on *ERROR-OUTPUT* and exit with status code 1.
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)

`face-highlight-property-set-p` *FACE PROPERTY* [Function]
 Return t if PROPERTY is set explicitly in FACE.

Package [net.didierverna.clon], page 27,

Source [face], page 20, (Lisp file)

`face-highlight-property-value` *FACE PROPERTY* [Function]
 Return PROPERTY's value in FACE.

Since faces inherit highlight properties, the actual value might come from one of FACE's ancestors.

if PROPERTY is not et, return nil.

Package [net.didierverna.clon], page 27,

Source [face], page 20, (Lisp file)

`find-sface` *SFACE NAME &aux SIBLING SUB-SFACE* [Function]
 Find an sface starting at SFACE named NAME.

If the sface can't be found in SFACE's face tree, find one in SFACE's sibling instead, and make a copy of it.

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

`flush-sheet` *SHEET* [Function]
 Flush SHEET.

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

`frame-left-margin` *INSTANCE* [Function]
`(setf frame-left-margin) VALUE INSTANCE` [Function]

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

`frame-p` *OBJECT* [Function]

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

`frame-right-margin` *INSTANCE* [Function]
`(setf frame-right-margin) VALUE INSTANCE` [Function]

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

`frame-sface` *INSTANCE* [Function]
`(setf frame-sface) VALUE INSTANCE` [Function]

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

`free-winsize` *OBJECT36* [Function]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

- `get-top-padding` *SFACE ITEMS* [Function]
 Return top padding of the next item in *ITEMS* that will print under *SFACE*.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `getenv` *VARIABLE* [Function]
 Get environment *VARIABLE*'s value. *VARIABLE* may be null.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- `help-spec-items-will-print` *SFACE ITEMS* [Function]
 Return t if at least one of *ITEMS* will print under *SFACE*.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `highlight-frame-highlight-property-instances` *INSTANCE* [Function]
 (setf highlight-frame-highlight-property-instances) *VALUE* [Function]
INSTANCE
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `highlight-frame-left-margin` *INSTANCE* [Function]
 (setf highlight-frame-left-margin) *VALUE* *INSTANCE* [Function]
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `highlight-frame-p` *OBJECT* [Function]
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `highlight-frame-right-margin` *INSTANCE* [Function]
 (setf highlight-frame-right-margin) *VALUE* *INSTANCE* [Function]
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `highlight-frame-sface` *INSTANCE* [Function]
 (setf highlight-frame-sface) *VALUE* *INSTANCE* [Function]
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `highlight-property-instance-escape-sequence` *INSTANCE* [Function]
 Return highlight property *INSTANCE*'s escape sequence.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- `highlight-property-instance-name` *INSTANCE* [Function]
 (setf highlight-property-instance-name) *VALUE* *INSTANCE* [Function]
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)

- highlight-property-instance-p** *OBJECT* [Function]
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- highlight-property-instance-value** *INSTANCE* [Function]
(setf highlight-property-instance-value) *VALUE INSTANCE* [Function]
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- home-directory** [Function]
 Return user's home directory in canonical form.
 If the user's home directory cannot be computed, signal a warning and return NIL.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- i-reader** *STREAM SUBCHAR ARG* [Function]
 Read an argument list for the DEFINDENT macro.
Package [net.didierverna.clon], page 27,
Source [meta], page 12, (Lisp file)
- list-to-string** *LIST &key KEY SEPARATOR* [Function]
 Return a SEPARATOR-separated string of all LIST elements.
 - KEY should provide a way to get a string from each LIST element.
 - SEPARATOR is the string to insert between elements.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- macosp** [Function]
 Return t if running on Mac OS.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- make-cmdline-option** *&key (NAME NAME) (OPTION OPTION)* [Function]
(VALUE VALUE) (SOURCE SOURCE)
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- make-frame** *&key (SFACE SFACE) (LEFT-MARGIN LEFT-MARGIN)* [Function]
(RIGHT-MARGIN RIGHT-MARGIN)
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- make-highlight-frame** *&key (SFACE SFACE) (LEFT-MARGIN* [Function]
LEFT-MARGIN) (RIGHT-MARGIN RIGHT-MARGIN)
(HIGHLIGHT-PROPERTY-INSTANCES
HIGHLIGHT-PROPERTY-INSTANCES)
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)

make-highlight-property-instance *&key (NAME NAME) (VALUE VALUE)* [Function]

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

make-internal-enum *LONG-NAME DESCRIPTION &rest KEYS &key ARGUMENT-NAME ARGUMENT-TYPE ENUM ENV-VAR FALLBACK-VALUE DEFAULT-VALUE HIDDEN* [Function]

Make a new internal (Clon-specific) enum option.

- LONG-NAME is the option's long-name, sans the 'clon-' prefix.

(Internal options don't have short names.)

- DESCRIPTION is the options's description.

- ARGUMENT-NAME is the option's argument name appearing in help strings.

- ARGUMENT-TYPE is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).

It defaults to :optional.

- ENUM is the set of possible values.

- ENV-VAR is the option's associated environment variable, sans the 'CLON_' prefix. It defaults to nil.

- FALLBACK-VALUE is the option's fallback value (for missing optional arguments), if any.

- DEFAULT-VALUE is the option's default value, if any.

- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [enum], page 17, (Lisp file)

make-internal-flag *LONG-NAME DESCRIPTION &rest KEYS &key ENV-VAR HIDDEN* [Function]

Make a new internal (Clon-specific) flag.

- LONG-NAME is the flag's long-name, sans the 'clon-' prefix.

(Internal options don't have short names.)

- DESCRIPTION is the flag's description.

- ENV-VAR is the flag's associated environment variable, sans the 'CLON_' prefix. It default to nil.

- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [flag], page 14, (Lisp file)

make-internal-lispobj *LONG-NAME DESCRIPTION &rest KEYS &key ARGUMENT-NAME ARGUMENT-TYPE ENV-VAR TYPESPEC FALLBACK-VALUE DEFAULT-VALUE HIDDEN* [Function]

Make a new internal (Clon-specific) string option.

- LONG-NAME is the option's long-name, sans the 'clon-' prefix.

(Internal options don't have short names.)

- DESCRIPTION is the options's description.

- ARGUMENT-NAME is the option's argument name appearing in help strings.

- ARGUMENT-TYPE is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).

It defaults to :optional.

- ENV-VAR is the option's associated environment variable, sans the 'CLON_' prefix. It defaults to nil.

- TYPESPEC is a type specifier the option's value should satisfy.
- FALLBACK-VALUE is the option's fallback value (for missing optional arguments), if any.
- DEFAULT-VALUE is the option's default value, if any.
- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [lispobj], page 16, (Lisp file)

make-internal-path *LONG-NAME DESCRIPTION &rest KEYS &key* [Function]
ARGUMENT-NAME ARGUMENT-TYPE ENV-VAR FALLBACK-VALUE
DEFAULT-VALUE TYPE HIDDEN

Make a new internal (Clon-specific) path option.

- LONG-NAME is the option's long-name, sans the 'clon-' prefix. (Internal options don't have short names.)
- DESCRIPTION is the options's description.
- ARGUMENT-NAME is the option's argument name appearing in help strings.
- ARGUMENT-TYPE is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).

It defaults to :optional.

- ENV-VAR is the option's associated environment variable, sans the 'CLON_' prefix. It defaults to nil.
- FALLBACK-VALUE is the option's fallback value (for missing optional arguments), if any.
- DEFAULT-VALUE is the option's default value, if any.
- TYPE is the pathname type. It can be one of :file, :directory, :file-list, :directory-list or nil meaning that everything is allowed.
- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [path], page 17, (Lisp file)

make-internal-stropt *LONG-NAME DESCRIPTION &rest KEYS* [Function]
&key ARGUMENT-NAME ARGUMENT-TYPE ENV-VAR
FALLBACK-VALUE DEFAULT-VALUE HIDDEN

Make a new internal (Clon-specific) string option.

- LONG-NAME is the option's long-name, sans the 'clon-' prefix. (Internal options don't have short names.)
- DESCRIPTION is the options's description.
- ARGUMENT-NAME is the option's argument name appearing in help strings.
- ARGUMENT-TYPE is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).

It defaults to :optional.

- ENV-VAR is the option's associated environment variable, sans the 'CLON_' prefix. It defaults to nil.
- FALLBACK-VALUE is the option's fallback value (for missing optional arguments), if any.
- DEFAULT-VALUE is the option's default value, if any.
- When HIDDEN, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [stropt], page 16, (Lisp file)

make-internal-switch *LONG-NAME DESCRIPTION &rest KEYS* [Function]
&key *ARGUMENT-STYLE ARGUMENT-TYPE ENV-VAR*
DEFAULT-VALUE HIDDEN

Make a new internal (Clon-specific) switch.

- *LONG-NAME* is the switch's long-name, sans the 'clon-' prefix.

(Internal options don't have short names.)

- *DESCRIPTION* is the switch's description.

- *ARGUMENT-STYLE* is the switch's argument display style. It can be one of :yes/no, :on/off, :true/false, :yup/nope or :yeah/nah.

It defaults to :yes/no.

- *ARGUMENT-TYPE* is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).

It defaults to :optional.

- *ENV-VAR* is the switch's associated environment variable, sans the 'CLON_' prefix. It defaults to nil.

- *DEFAULT-VALUE* is the switch's default value, if any.

- When *HIDDEN*, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [switch], page 16, (Lisp file)

make-internal-text **&rest** *KEYS &key CONTENTS HIDDEN* [Function]

Package [net.didierverna.clon], page 27,

Source [text], page 13, (Lisp file)

make-internal-xswitch *LONG-NAME DESCRIPTION &rest KEYS* [Function]
&key *ARGUMENT-NAME ARGUMENT-TYPE ENUM ENV-VAR*
DEFAULT-VALUE HIDDEN

Make a new internal (Clon-specific) xswitch.

- *LONG-NAME* is the xswitch's long-name, sans the 'clon-' prefix.

(Internal options don't have short names.)

- *DESCRIPTION* is the xswitch's description.

- *ARGUMENT-NAME* is the option's argument name appearing in help strings.

- *ARGUMENT-TYPE* is one of :required, :mandatory or :optional (:required and :mandatory are synonyms).

It defaults to :optional.

- *ENUM* is the set of possible non-boolean values.

- *ENV-VAR* is the xswitch's associated environment variable, sans the 'CLON_' prefix. It defaults to nil.

- *DEFAULT-VALUE* is the xswitch's default value, if any.

- When *HIDDEN*, the option doesn't appear in help strings.

Package [net.didierverna.clon], page 27,

Source [xswitch], page 18, (Lisp file)

make-raw-face-tree **&optional** *FACE-CLASS* [Function]

Make a raw (boring yet functional) face tree.

Package [net.didierverna.clon], page 27,

Source [face], page 20, (Lisp file)

- make-raw-sface** *SIBLING &aux SFACE* [Function]
 Return a new SFace based on SIBLING.
 This function does not consider SIBLING as a face tree:
 only face properties are copied; the face parent and children are set to nil.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- make-sheet** *&rest KEYS &key OUTPUT-STREAM SEARCH-PATH
 THEME LINE-WIDTH HIGHLIGHT* [Function]
 Make a new SHEET.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- match-option** *OPTION &key SHORT-NAME LONG-NAME* [Function]
 Try to match OPTION against SHORT-NAME, LONG-NAME.
 If OPTION matches, return the name that matched.
Package [net.didierverna.clon], page 27,
Source [option], page 13, (Lisp file)
- open-line** *SHEET* [Function]
 Open all frames on SHEET's current line.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- open-next-line** *SHEET* [Function]
 Close SHEET's current line and open the next one.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- open-sface** *SHEET SFACE* [Function]
 Create a frame for SFACE and open it.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- option-abbreviation-distance** *OPTION PARTIAL-NAME* [Function]
 Return the distance between OPTION's long name and PARTIAL-NAME.
 If PARTIAL-NAME does not abbreviate OPTION's long name, return MOST-POSITIVE-FIXNUM.
Package [net.didierverna.clon], page 27,
Source [option], page 13, (Lisp file)
- option-call-p** *STR* [Function]
 Return true if STR looks like an option call.
Package [net.didierverna.clon], page 27,
Source [cmdline], page 19, (Lisp file)

- parent-generation** *FACE PARENT-NAME* [Function]
Return *FACE*'s parent generation for *PARENT-NAME*.
That is, 1 if *PARENT-NAME* names *FACE*'s parent, 2 if it names its grand-parent etc. If *PARENT-NAME* does not name one of *FACE*'s ancestors, trigger an error.
- Package** [net.didierverna.clon], page 27,
Source [face], page 20, (Lisp file)
- pathname-component-null-p** *COMPONENT* [Function]
Return true if *COMPONENT* is either null or :unspecific.
- Package** [net.didierverna.clon], page 27,
Source [path], page 17, (Lisp file)
- pop-frame** *SHEET* [Function]
Pop *SHEET*'s current frame.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- potential-pack-char** *OPTION &optional AS-STRING* [Function]
Return *OPTION*'s potential pack character, if any.
If *AS-STRING*, return a string of that character.
- Package** [net.didierverna.clon], page 27,
Source [option], page 13, (Lisp file)
- princ-char** *SHEET CHAR* [Function]
Princ *CHAR* on *SHEET*'s stream and increment the column position.
The effect of printing *CHAR* must be exactly to move right by one column, so control characters, as well as newlines and tabs are forbidden here.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- princ-highlight-property-instances** *SHEET INSTANCES* [Function]
Princ highlight proeprty *INSTANCES* on *SHEET*'s stream.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- princ-spaces** *SHEET NUMBER* [Function]
Princ *NUMBER* spaces to *SHEET*'s stream and update the column position.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- princ-string** *SHEET STRING* [Function]
Princ *STRING* on *SHEET*'s stream and update the column position.
The effect of printing *STRING* must be exactly to move right by the corresponding string length, so control characters, as well as newlines and tabs are forbidden here.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)

- print-error** *ERROR &optional INTERACTIVEP &aux STREAM* [Function]
PRINT-ESCAPE
 Print ERROR on *ERROR-OUTPUT*.
 When INTERACTIVEP, print on *QUERY-IO* instead.
- Package** [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- print-faced-help-spec** *SHEET SFACE ITEMS* [Function]
 Print all help specification ITEMS on SHEET with SFACE.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- print-help** *SHEET HELP* [Function]
 Open the toplevel help face and print HELP on SHEET with it.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- print-string** *SHEET STRING* [Function]
 Output STRING to SHEET.
 STRING is output within the current frame's bounds.
 Spacing characters are honored but newlines might replace spaces when the output reaches the rightmost bound.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- push-frame** *SHEET FRAME* [Function]
 Push a new frame to SHEET's frames.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- putenv** *VARIABLE VALUE* [Function]
 Set environment VARIABLE to VALUE.
- Package** [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- reach-column** *SHEET COLUMN* [Function]
 Reach COLUMN on SHEET by princ'ing spaces.
- Package** [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- read-argument** [Function]
 Read an option argument from standard input.
- Package** [net.didierverna.clon], page 27,
Source [valued], page 14, (Lisp file)

- read-call** *&optional NEGATED* [Function]
 Read an option's call or pack from standard input.
 If *NEGATED*, read a negated call or pack. Otherwise, read a short call or pack.
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- read-env-val** *ENV-VAR* [Function]
 Read *ENV-VAR*'s new value from standard input.
Package [net.didierverna.clon], page 27,
Source [environ], page 19, (Lisp file)
- read-long-name** [Function]
 Read an option's long name from standard input.
Package [net.didierverna.clon], page 27,
Source [context], page 24, (Lisp file)
- read-sface-tree** *PATHNAME* [Function]
 Read an sface tree from *PATHNAME*.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- read-value** [Function]
 Read an option value from standard input.
Package [net.didierverna.clon], page 27,
Source [valued], page 14, (Lisp file)
- release-status-number** *RELEASE-STATUS* [Function]
Package [net.didierverna.clon.setup], page 39,
Source [setup], page 25, (Lisp file)
- remove-keys** *KEYS &rest REMOVED* [Function]
 Return a new property list from *KEYS* without *REMOVED* ones.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- replace-key** *REPLACEMENT KEYS* [Function]
 Return a new property list from *KEYS* with *REPLACEMENT*.
REPLACEMENT can take the following forms:
 - :KEY
 The effect is to remove :KEY from *KEYS*, as per *REMOVE-KEYS*.
 - (:KEY :NEW-KEY)
 The effect is to replace :KEY with :NEW-KEY, leaving the values unchanged.
 - (:KEY :NEW-KEY (VAL-OR-VALS NEW-VAL)*), with VAL-OR-VALS being
 either a value or a list of values. The effect is to replace :KEY with :NEW-KEY and a value
 matching one of the VAL-OR-VALS with the
 corresponding NEW-VAL. Values not matching any VAL-OR-VALS remain unchanged. -
 (:KEY (VAL-OR-VALS :NEW-KEY NEW-VAL...)*), with VAL-OR-VALS as above. The
 effect is the same as above, but :NEW-KEY additionally depends on the matched value. If

multiple `:NEW-KEY NEW-VAL` couples are provided, that many new keys are inserted along with their values. For values not matching any `VAL-OR-VALS`, `:KEY` and its value remain unchanged.

Package [net.didierverna.clon], page 27,

Source [util], page 12, (Lisp file)

replace-keys *KEYS &rest REPLACEMENTS &aux NEW-KEYS* [Function]

Return a new property list from `KEYS` with `REPLACEMENTS`.

See `REPLACE-KEY` for more information on the replacement syntax.

Package [net.didierverna.clon], page 27,

Source [util], page 12, (Lisp file)

restart-on-error *ERROR* [Function]

Print `ERROR` and offer available restarts on `*QUERY-IO*`.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

restartable-check *VALUED-OPTION VALUE* [Function]

Restartably check that `VALUE` is valid for `VALUED-OPTION`.

The only restart available, `use-value`, offers to try a different value from the one that was provided.

Package [net.didierverna.clon], page 27,

Source [valued], page 14, (Lisp file)

restartable-cmdline-convert *VALUED-OPTION CMDLINE-NAME
CMDLINE-ARGUMENT* [Function]

Restartably convert `CMDLINE-ARGUMENT` to `VALUED-OPTION`'s value.

This function is used when the conversion comes from a command-line usage of `VALUED-OPTION`, called by `CMDLINE-NAME`.

As well as conversion errors, this function might raise a `missing-cmdline-argument` error if `CMDLINE-ARGUMENT` is `nil` and an argument is required.

Available restarts are (depending on the context):

- `use-fallback-value`: return `FALLBACK-VALUE`,
- `use-default-value`: return `VALUED-OPTION`'s default value,
- `use-value`: return another (already converted) value,
- `use-argument`: return the conversion of another argument.

Return two values: `VALUED-OPTION`'s value and the actual value source.

The value source may be `:cmdline`, `:fallback` or `:default`.

Package [net.didierverna.clon], page 27,

Source [cmdline], page 19, (Lisp file)

restartable-cmdline-junk-error *JUNK* [Function]

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

- restartable-convert** *VALUED-OPTION ARGUMENT* [Function]
 Restartably convert ARGUMENT to VALUED-OPTION's value.
 Available restarts are:
 - use-default-value: return OPTION's default value,
 - use-value: return another (already converted) value,
 - use-argument: return the conversion of another argument.
Package [net.didierverna.clon], page 27,
Source [valued], page 14, (Lisp file)
- restartable-environment-convert** *VALUED-OPTION ENV-VAL* [Function]
 Restartably convert ENV-VAL to VALUED-OPTION's value.
 This function is used when the conversion comes from an environment variable associated with VALUED-OPTION.
 Available restarts are:
 - use-default-value: return VALUED-OPTION's default value,
 - use-value: return another (already converted) value,
 - use-argument: return the conversion of another argument,
 - modify-env: modify the environment variable's value.
Package [net.didierverna.clon], page 27,
Source [environ], page 19, (Lisp file)
- restrict-because** *REASON* [Function]
 Put Clon in restricted mode because of REASON.
Package [net.didierverna.clon.setup], page 39,
Source [setup], page 25, (Lisp file)
- safe-left-margin** *SHEET MARGIN* [Function]
 Return either MARGIN or a safe value instead.
 To be safe, margin must be greater than the current left margin and smaller than the currently available margin.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- safe-right-margin** *SHEET LEFT-MARGIN MARGIN* [Function]
 Return either MARGIN or a safe value instead.
 To be safe, margin must be greater than LEFT-MARGIN and smaller than the currently available right margin.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
- search-branch** *FACE NAMES* [Function]
 Search for a branch of faces named NAMES starting at FACE.
 The branch is searched for as a direct subbranch of FACE, or as a direct subbranch of FACE's ancestors.
 If a branch is found, return its leaf face. Otherwise return nil.
Package [net.didierverna.clon], page 27,
Source [face], page 20, (Lisp file)

search-face *FACE NAME &optional ERROR-ME* [Function]

Search for a face named NAME starting at FACE.

The face is looked for as a direct subface of FACE (in which case it is simply returned), or up in the hierarchy and by successive upper branches (in which case it is copied and attached to FACE).

If ERROR-ME, trigger an error if no face is found; otherwise, return nil.

Package [net.didierverna.clon], page 27,

Source [face], page 20, (Lisp file)

search-option *CONTEXT &rest KEYS &key SHORT-NAME* [Function]
LONG-NAME PARTIAL-NAME

Search for an option in CONTEXT.

The search is done with SHORT-NAME, LONG-NAME, or PARTIAL-NAME.

In case of a PARTIAL-NAME search, look for an option the long name of which begins with it.

In case of multiple matches by PARTIAL-NAME, the longest match is selected. When such an option exists, return two values:

- the option itself,
- the name used to find the option, possibly completed if partial.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

search-option-by-abbreviation *CONTEXT PARTIAL-NAME* [Function]

Search for option abbreviated with PARTIAL-NAME in CONTEXT.

When such an option exists, return two values:

- the option itself,
- the completed name.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

search-option-by-name *CONTEXT &rest KEYS &key SHORT-NAME* [Function]
LONG-NAME

Search for option with either SHORT-NAME or LONG-NAME in CONTEXT.

When such an option exists, return two values:

- the option itself,
- the name that matched.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

search-sticky-option *CONTEXT NAMEARG* [Function]

Search for a sticky option in CONTEXT, matching NAMEARG.

NAMEARG is the concatenation of the option's short name and its argument.

In case of multiple matches, the option with the longest name is selected. When such an option exists, return two values:

- the option itself,
- the argument part of NAMEARG.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

select-keys *KEYS &rest SELECTED* [Function]

Return a new property list from *KEYS* with only *SELECTED* ones.

Package [net.didierverna.clon], page 27,

Source [util], page 12, (Lisp file)

split-path *PATH* [Function]

Split *PATH* into a list of directories.

Package [net.didierverna.clon], page 27,

Source [path], page 17, (Lisp file)

stream-line-width *STREAM &aux HANDLE* [Function]

Get *STREAM*'s line width.

Return two values:

- the stream's line width, or nil if it can't be computed (typically when the stream does not denote a tty),
- an error message if the operation failed.

Package [net.didierverna.clon], page 27,

Source [termio], page 11, (Lisp file)

try-read-sface-tree *PATHNAME* [Function]

Read an sface tree from *PATHNAME* if it exists or return nil.

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

try-read-theme *PATHNAME* [Function]

Read a theme from *PATHNAME* or *PATHNAME.cth* if it exists or return nil.

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

winsize-ws-col *STRUCT* [Function]

(setf winsize-ws-col) *VAR-28 STRUCT* [Function]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

winsize-ws-row *STRUCT* [Function]

(setf winsize-ws-row) *VAR-0 STRUCT* [Function]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

winsize-ws-xpixel *STRUCT* [Function]

(setf winsize-ws-xpixel) *VAR-29 STRUCT* [Function]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

`winsize-ws-yapixel` *STRUCT* [Function]
 (`setf winsize-ws-yapixel`) *VAR-30 STRUCT* [Function]

Package [net.didierverna.clon], page 27,

Source /Users/didier/.cache/common-lisp/sbcl-1.3.10.59-b5f0e55-macosx-x64/Users/didier/Lisp/clon/termio/sbcl/constants.lisp-temp

`~-reader` *STREAM CHAR* [Function]
 Read a series of ~"string" to be concatenated together.

Package [net.didierverna.clon], page 27,

Source [meta], page 12, (Lisp file)

6.2.5 Generic functions

`argument` *CONDITION* [Generic Function]

Package [net.didierverna.clon], page 27,

Methods

`argument` (*CONDITION* *unknown-cmdline-option-error*) [Method]
Source [context], page 24, (Lisp file)

`argument` (*CONDITION* *spurious-cmdline-argument*) [Method]
Source [cmdline], page 19, (Lisp file)

`argument` (*CONDITION* *invalid-argument*) [Method]
Source [valued], page 14, (Lisp file)

`argument-name` *OBJECT* [Generic Function]

Package [net.didierverna.clon], page 27,

Methods

`argument-name` (*VALUED-OPTION* *valued-option*) [Method]
 The option's argument display name.
Source [valued], page 14, (Lisp file)

`argument-required-p` *OBJECT* [Generic Function]

Package [net.didierverna.clon], page 27,

Methods

`argument-required-p` (*VALUED-OPTION* *valued-option*) [Method]
 Whether the option's argument is required.
Source [valued], page 14, (Lisp file)

`argument-style` *OBJECT* [Generic Function]

Package [net.didierverna.clon], page 27,

Methods

`argument-style` (*SWITCH-BASE* *switch-base*) [Method]
 The selected argument style.
Source [switch-base], page 15, (Lisp file)

- argument-styles** *OBJECT* [Generic Function]
 (setf argument-styles) *NEW-VALUE OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- argument-styles** (*SWITCH-BASE* switch-base) [Method]
 (setf argument-styles) *NEW-VALUE* (*SWITCH-BASE* switch-base) [Method]
 The possible argument styles.
 The position of every argument style in the list must correspond to the position of the associated strings in the yes-values and no-values slots.
Source [switch-base], page 15, (Lisp file)
- background** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- background** (*FACE* face) [Method]
 The face background.
Source [face], page 20, (Lisp file)
- blink** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- blink** (*FACE* face) [Method]
 The face's blink speed.
Source [face], page 20, (Lisp file)
- bottom-padding** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- bottom-padding** (*FACE* face) [Method]
 The face bottom padding.
 This property can take the following forms:
 - nil: the next output can start right at the end of this face's,
 - 0: the next output should start on the next line,
 - N>0: there should be N empty lines before the next output.
Source [face], page 20, (Lisp file)
- check** *VALUED-OPTION VALUE* [Generic Function]
 Check that *VALUE* is valid for *VALUED-OPTION*.
 If *VALUE* is valid, return it. Otherwise, raise an invalid-value error.
Package [net.didierverna.clon], page 27,
Source [valued], page 14, (Lisp file)
Methods

- check** (*XSWITCH* *xswitch*) *VALUE* [Method]
 Check that *VALUE* is valid for *XSWITCH*.
Source [xswitch], page 18, (Lisp file)
- check** (*ENUM* *enum*) *VALUE* [Method]
 Check that *VALUE* is valid for *ENUM*.
Source [enum], page 17, (Lisp file)
- check** (*PATH* *path*) *VALUE* [Method]
 Check that *VALUE* is valid for *PATH*.
Source [path], page 17, (Lisp file)
- check** (*LISPOBJ* *lispobj*) *VALUE* [Method]
 Check that *VALUE* is valid for *LISPOBJ*.
Source [lispobj], page 16, (Lisp file)
- check** (*STROPT* *stropt*) *VALUE* [Method]
 Check that *VALUE* is valid for *STROPT*.
Source [stropt], page 16, (Lisp file)
- check** (*SWITCH* *switch*) *VALUE* [Method]
 Check that *VALUE* is valid for *SWITCH*.
Source [switch], page 16, (Lisp file)
- check-name-clash** *ITEM1* *ITEM2* [Generic Function]
 Check for name clash between *ITEM1*'s options and *ITEM2*'s options.
Package [net.didierverna.clon], page 27,
Source [option], page 13, (Lisp file)
Methods
- check-name-clash** (*CONTAINER1* *container*) [Method]
 (*CONTAINER2* *container*)
 Check for name clash between *CONTAINER1*'s options and *CONTAINER2*'s ones.
Source [container], page 18, (Lisp file)
- check-name-clash** *ITEM1* (*CONTAINER* *container*) [Method]
 Check for name clash between *ITEM1*'s options and *CONTAINER*'s ones.
Source [container], page 18, (Lisp file)
- check-name-clash** (*CONTAINER* *container*) *ITEM2* [Method]
 Check for name clash between *CONTAINER*'s options and *ITEM2*'s ones.
Source [container], page 18, (Lisp file)
- check-name-clash** *ITEM1* (*TEXT* *text*) [Method]
 Do nothing (no name clash with a text object).
- check-name-clash** (*TEXT* *text*) *ITEM2* [Method]
 Do nothing (no name clash with a text object).

- `check-name-clash` (*OPTION1* option) (*OPTION2* option) [Method]
Ensure that there is no name clash between *OPTION1* and *OPTION2*.
- `clon-options-group` *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `clon-options-group` (*CONTEXT* context) [Method]
Return the Clon options group of *CONTEXT*'s synopsis.
Source [context], page 24, (Lisp file)
- `clon-options-group` (*SYNOPSIS* synopsis) [Method]
The Clon options group.
Source [synopsis], page 20, (Lisp file)
- `close-frame` *SHEET FRAME* [Generic Function]
Close *FRAME* on *SHEET*.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
Method Combination
progn
Options: :most-specific-last
- Methods**
- `close-frame` *SHEET* (*FRAME* frame) &aux *RIGHT-MARGIN* progn [Method]
Reach *FRAME*'s right margin if it has one.
- `close-frame` *SHEET* (*FRAME* highlight-frame) progn [Method]
Restore the upper frame's highlight properties.
- `cmdline-options` *OBJECT* [Generic Function]
(setf `cmdline-options`) *NEW-VALUE OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `cmdline-options` (*CONTEXT* context) [Method]
(setf `cmdline-options`) *NEW-VALUE* (*CONTEXT* context) [Method]
The options from the command-line.
Source [context], page 24, (Lisp file)
- `column` *OBJECT* [Generic Function]
(setf `column`) *NEW-VALUE OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `column` (*SHEET* sheet) [Method]
(setf `column`) *NEW-VALUE* (*SHEET* sheet) [Method]
The sheet's current column.
Source [sheet], page 21, (Lisp file)

- `comment` *CONDITION* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `comment` (*CONDITION* invalid-argument) [Method]
Source [valued], page 14, (Lisp file)
 - `comment` (*CONDITION* invalid-value) [Method]
Source [valued], page 14, (Lisp file)
- `concealedp` *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `concealedp` (*FACE* face) [Method]
The face's concealed status.
Source [face], page 20, (Lisp file)
- `contents` *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `contents` (*TEXT* text) [Method]
The actual text string.
Source [text], page 13, (Lisp file)
- `convert` *VALUED-OPTION ARGUMENT* [Generic Function]
Convert ARGUMENT to VALUED-OPTION's value.
If ARGUMENT is invalid, raise an invalid-argument error.
Package [net.didierverna.clon], page 27,
Source [valued], page 14, (Lisp file)
Methods
- `convert` (*XSWITCH* xswitch) *ARGUMENT* [Method]
Convert ARGUMENT to an XSWITCH value.
Source [xswitch], page 18, (Lisp file)
 - `convert` (*ENUM* enum) *ARGUMENT* [Method]
Convert ARGUMENT to an ENUM value.
Source [enum], page 17, (Lisp file)
 - `convert` (*PATH* path) *ARGUMENT* [Method]
Convert ARGUMENT to a PATH value.
Source [path], page 17, (Lisp file)
 - `convert` (*LISPOBJ* lispobj) *ARGUMENT* [Method]
Convert ARGUMENT to a LISPOBJ value.
Source [lispobj], page 16, (Lisp file)

- convert** (*STROPT* stropt) *ARGUMENT* [Method]
 Convert *ARGUMENT* to an *STROPT* value.
Source [stropt], page 16, (Lisp file)
- convert** (*SWITCH* switch) *ARGUMENT* [Method]
 Convert *ARGUMENT* to a *SWITCH* value.
Source [switch], page 16, (Lisp file)
- copy-instance** *INSTANCE* &optional *SUBCLASS* [Generic Function]
 Return a copy of *INSTANCE*.
 Copy is either an object of *INSTANCE*'s class, or *INSTANCE*'s *SUBCLASS* if given.
Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
Methods
- copy-instance** *INSTANCE* &optional *SUBCLASS* [Method]
 Return a copy of *INSTANCE*.
 Both instances share the same slot values.
- crossed-out-p** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- crossed-out-p** (*FACE* face) [Method]
 The face's crossed out status.
Source [face], page 20, (Lisp file)
- default-value** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- default-value** (*VALUED-OPTION* valued-option) [Method]
 The option's default value.
Source [valued], page 14, (Lisp file)
- description** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- description** (*OPTION* option) [Method]
 The option's description.
Source [option], page 13, (Lisp file)
- enum** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- enum** (*ENUM-BASE* enum-base) [Method]
 The set of possible values.
Source [enum-base], page 17, (Lisp file)

- `env-val` *CONDITION* [Generic Function]
- Package** [net.didierverna.clon], page 27,
- Methods**
- `env-val` (*CONDITION* `invalid-environment-value`) [Method]
- Source** [environ], page 19, (Lisp file)
- `env-var` *OBJECT* [Generic Function]
- Package** [net.didierverna.clon], page 27,
- Methods**
- `env-var` (*CONDITION* `environment-error`) [Method]
- Source** [environ], page 19, (Lisp file)
- `env-var` (*OPTION* `option`) [Method]
- The option's associated environment variable.
- Source** [option], page 13, (Lisp file)
- `error-handler` *OBJECT* [Generic Function]
- Package** [net.didierverna.clon], page 27,
- Methods**
- `error-handler` (*CONTEXT* `context`) [Method]
- The behavior to adopt on option retrieval errors.
- Source** [context], page 24, (Lisp file)
- `error-string` *CONDITION* [Generic Function]
- (`setf error-string`) *NEW-VALUE* *CONDITION* [Generic Function]
- Package** [net.didierverna.clon], page 27,
- Methods**
- `error-string` (*CONDITION* `home-directory`) [Method]
- (`setf error-string`) *NEW-VALUE* (*CONDITION* `home-directory`) [Method]
- Source** [util], page 12, (Lisp file)
- `fallback-value` *OBJECT* [Generic Function]
- Package** [net.didierverna.clon], page 27,
- Methods**
- `fallback-value` (*VALUED-OPTION* `valued-option`) [Method]
- The option's fallback value.
- Source** [valued], page 14, (Lisp file)
- `foreground` *OBJECT* [Generic Function]
- Package** [net.didierverna.clon], page 27,
- Methods**
- `foreground` (*FACE* `face`) [Method]
- The face foreground.
- Source** [face], page 20, (Lisp file)

- framedp** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- framedp** (*FACE* face) [Method]
 The face's framed status.
Source [face], page 20, (Lisp file)
- frames** *OBJECT* [Generic Function]
(setf frames) *NEW-VALUE OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- frames** (*SHEET* sheet) [Method]
(setf frames) *NEW-VALUE (SHEET sheet)* [Method]
 The stack of currently open frames.
Source [sheet], page 21, (Lisp file)
- get-bottom-padding** *SFACE HELP-SPEC* [Generic Function]
 Get HELP-SPEC's bottom-padding under SFACE.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
Methods
- get-bottom-padding** *SFACE HELP-SPEC* [Method]
 Basic help specifications (chars, strings etc) don't provide a bottom padding.
get-bottom-padding *SFACE (HELP-SPEC list)* [Method]
 Return the bottom padding of HELP-SPEC's face.
- header** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- header** (*GROUP* group) [Method]
 The group's header.
Source [group], page 18, (Lisp file)
- help-spec** *ITEM &key PROGRAM UNHIDE &allow-other-keys* [Generic Function]
 Return ITEM's help specification.
Package [net.didierverna.clon], page 27,
Source [item], page 13, (Lisp file)
Methods
- help-spec** (*SYNOPSIS synopsis*) **&key PROGRAM** [Method]
 Return SYNOPSIS's help specification.
Source [synopsis], page 20, (Lisp file)

- help-spec** (*GROUP* group) **&key** [Method]
 Return GROUP's help specification.
Source [group], page 18, (Lisp file)
- help-spec** (*CONTAINER* container) **&key** [Method]
 Return CONTAINER's help specification.
Source [container], page 18, (Lisp file)
- help-spec** (*OPTION* valued-option) **&key** [Method]
 Return OPTION's help specification.
Source [valued], page 14, (Lisp file)
- help-spec** (*OPTION* option) **&key** [Method]
 Return OPTION's help specification.
Source [option], page 13, (Lisp file)
- help-spec** (*TEXT* text) **&key** [Method]
 Return TEXT's help specification.
Source [text], page 13, (Lisp file)
- help-spec** (*ITEM* item) **&key UNHIDE** around [Method]
 Call the actual method only when ITEM is not hidden or UNHIDE.
- help-spec-will-print** *SFACE HELP-SPEC* [Generic Function]
 Return t if HELP-SPEC will print under FACE.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
Methods
- help-spec-will-print** *SFACE HELP-SPEC* before [Method]
- help-spec-will-print** *SFACE HELP-SPEC* [Method]
 Basic help specifications (chars, strings etc) do print.
- help-spec-will-print** *SFACE (HELP-SPEC list)* [Method]
 Return t if HELP-SPEC's items will print under HELP-SPEC's face.
- hiddenp** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- hiddenp** (*ITEM* item) [Method]
 Whether the item is hidden in help strings.
Source [item], page 13, (Lisp file)
- highlight** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- highlight** (*CONTEXT* context) [Method]
 Clon's output highlight mode.
Source [context], page 24, (Lisp file)

- highlightp** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- highlightp** (*SHEET* sheet) [Method]
Whether to highlight SHEET's output.
Source [sheet], page 21, (Lisp file)
- intensity** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- intensity** (*FACE* face) [Method]
The face intensity.
Source [face], page 20, (Lisp file)
- inversep** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- inversep** (*FACE* face) [Method]
The face's inverse video status.
Source [face], page 20, (Lisp file)
- italicp** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- italicp** (*FACE* face) [Method]
The face's italic status.
Source [face], page 20, (Lisp file)
- item** *CONDITION* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- item** (*CONDITION* cmdline-error) [Method]
Source [cmdline], page 19, (Lisp file)
- item-separator** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- item-separator** (*FACE* face) [Method]
The face item separator.
Source [face], page 20, (Lisp file)
- items** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods

- items** (*CONTAINER* container) [Method]
 The items in the container.
Source [container], page 18, (Lisp file)
- junk** *CONDITION* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- junk** (*CONDITION* cmdline-junk-error) [Method]
Source [context], page 24, (Lisp file)
- left-padding** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- left-padding** (*FACE* face) [Method]
 The face left padding.
 This property can take the following forms:
 - <NUMBER>: the padding is relative to the enclosing face,
 - SELF: the padding is set to wherever the face happens to be opened,
 - (<NUMBER> ABSOLUTE): the padding is set in absolute value,
 - (<NUMBER> :RELATIVE-TO <FACE-NAME>): the padding is set relatively to a parent face named FACE-NAME.
Source [face], page 20, (Lisp file)
- line-width** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- line-width** (*CONTEXT* context) [Method]
 The line width for help display.
Source [context], page 24, (Lisp file)
- line-width** (*SHEET* sheet) [Method]
 The sheet's line width.
Source [sheet], page 21, (Lisp file)
- long-name** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- long-name** (*OPTION* option) [Method]
 The option's long name.
Source [option], page 13, (Lisp file)
- make-face-tree** *DEFINITION &optional FACE-CLASS* [Generic Function]
 Make a FACE-CLASS face tree from DEFINITION.
Package [net.didierverna.clon], page 27,
Source [face], page 20, (Lisp file)
Methods

- make-face-tree** (*DEFINITION* list) **&optional** *FACE-CLASS* [Method]
 Make a *FACE-CLASS* face tree from a list of face name and initargs.
- make-face-tree** (*NAME* symbol) **&optional** *FACE-CLASS* [Method]
 Create a face named *NAME*.
- mapoptions** *FUNC THERE* [Generic Function]
 Map *FUNC* over all options in *THERE*.
- Package** [net.didierverna.clon], page 27,
Source [synopsis], page 20, (Lisp file)
Methods
- mapoptions** *FUNC (CONTEXT context)* [Method]
 Map *FUNC* over all options in *CONTEXT* synopsis.
Source [context], page 24, (Lisp file)
- mapoptions** *FUNC ELSEWHERE* [Method]
 Do nothing by default.
- mapoptions** *FUNC (ITEM item) after* [Method]
 Mark *TRAVERSABLE* as traversed.
- mapoptions** *FUNC (CONTAINER container)* [Method]
 Map *FUNC* over all containers or options in *CONTAINER*.
- mapoptions** *FUNC (OPTION option)* [Method]
 Call *FUNC* on *OPTION*.
- name** *CONDITION* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- name** (*CONDITION* unknown-cmdline-option-error) [Method]
Source [context], page 24, (Lisp file)
- name** (*FACE* face) [Method]
 The face name.
Source [face], page 20, (Lisp file)
- name** (*CONDITION* cmdline-option-error) [Method]
Source [cmdline], page 19, (Lisp file)
- negated-call** *CONDITION* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- negated-call** (*CONDITION* unrecognized-negated-call-error) [Method]
Source [context], page 24, (Lisp file)

- negated-pack** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- negated-pack** (*CONTEXT* context) [Method]
 Return the negated pack of *CONTEXT*'s synopsis.
Source [context], page 24, (Lisp file)
- negated-pack** (*SYNOPSIS* synopsis) [Method]
 The negated pack string.
Source [synopsis], page 20, (Lisp file)
- negated-pack-char** *OPTION* &optional *AS-STRING* [Generic Function]
 Return *OPTION*'s negated pack character, if any.
 If *AS-STRING*, return a string of that character.
Package [net.didierverna.clon], page 27,
Source [option], page 13, (Lisp file)
Methods
- negated-pack-char** (*NEGATABLE* negatable) &optional *AS-STRING* [Method]
 Return *NEGATABLE*'s negated pack character, if any.
Source [negatable], page 15, (Lisp file)
- negated-pack-char** (*OPTION* option) &optional *AS-STRING* [Method]
 Return nil (only the switch hierarchy is negated-pack'able).
- no-values** *OBJECT* [Generic Function]
(setf no-values) *NEW-VALUE OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- no-values** (*SWITCH-BASE* switch-base) [Method]
(setf no-values) *NEW-VALUE* (*SWITCH-BASE* switch-base) [Method]
 The possible 'no' values.
Source [switch-base], page 15, (Lisp file)
- open-frame** *SHEET FRAME* [Generic Function]
 Open *FRAME* on *SHEET*.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
Method Combination
 progn
Options: :most-specific-last
Methods

- `open-frame SHEET (FRAME frame) progn` [Method]
Reach the frame's left margin.
- `open-frame SHEET (FRAME highlight-frame) progn` [Method]
Reach the frame's left margin and output its highlight properties.
- `option CONDITION` [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `option (CONDITION option-error)` [Method]
Source [option], page 13, (Lisp file)
- `option-sticky-distance OPTION NAMEARG` [Generic Function]
Try to match OPTION's short name with a sticky argument against NAMEARG.
If OPTION matches, return the length of OPTION's short name; otherwise 0.
Package [net.didierverna.clon], page 27,
Source [option], page 13, (Lisp file)
Methods
- `option-sticky-distance (OPTION valued-option) NAMEARG` [Method]
Try to match OPTION's short name with a sticky argument against NAMEARG.
If OPTION matches, return its short name's length; otherwise 0.
Source [valued], page 14, (Lisp file)
- `option-sticky-distance (OPTION option) NAMEARG` [Method]
Return 0 (non-valued options don't take any argument, sticky or not).
- `output-stream OBJECT` [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `output-stream (SHEET sheet)` [Method]
The sheet's output stream.
Source [sheet], page 21, (Lisp file)
- `parent OBJECT` [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `parent (FACE face)` [Method]
The face parent.
Source [face], page 20, (Lisp file)
- `path-type OBJECT` [Generic Function]
Package [net.didierverna.clon], page 27,
Methods

- path-type** (*PATH* path) [Method]
 The path type.
Source [path], page 17, (Lisp file)
- postfix** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- postfix** (*CONTEXT* context) [Method]
 Return the postfix of *CONTEXT*'s synopsis.
Source [context], page 24, (Lisp file)
- postfix** (*SYNOPSIS* synopsis) [Method]
 A postfix to the program synopsis.
Source [synopsis], page 20, (Lisp file)
- potential-pack** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- potential-pack** (*SYNOPSIS* synopsis) [Method]
 The potential pack string.
Source [synopsis], page 20, (Lisp file)
- potential-pack-p** *PACK THERE* [Generic Function]
 Return t if *PACK* is a potential pack in *THERE*.
Package [net.didierverna.clon], page 27,
Source [synopsis], page 20, (Lisp file)
Methods
- potential-pack-p** *PACK* (*CONTEXT* context) [Method]
 Return t if *PACK* (a string) is a potential pack in *CONTEXT*.
Source [context], page 24, (Lisp file)
- potential-pack-p** *PACK* (*SYNOPSIS* synopsis) [Method]
 Return t if *PACK* is a potential pack for *SYNOPSIS*.
- print-help-spec** *SHEET HELP-SPEC* [Generic Function]
 Print *HELP-SPEC* on *SHEET*.
Package [net.didierverna.clon], page 27,
Source [sheet], page 21, (Lisp file)
Methods
- print-help-spec** *SHEET HELP-SPEC* before [Method]
- print-help-spec** *SHEET* (*CHAR* character) [Method]
 Print *CHAR* on *SHEET* with the current face.
- print-help-spec** *SHEET* (*CHAR-VECTOR* simple-vector) [Method]
 Print *CHAR-VECTOR* on *SHEET* with the current face.

- `print-help-spec SHEET (STRING string)` [Method]
Print STRING on SHEET with the current face.
- `print-help-spec SHEET (HELP-SPEC list)` [Method]
Open HELP-SPEC's face and print all of its items with it.
- `retrieve-from-environment OPTION ENV-VAL` [Generic Function]
Retrieve OPTION's value from the environment.
ENV-VAL is the value stored in the associated environment variable.
- Package** [net.didierverna.clon], page 27,
Source [environ], page 19, (Lisp file)
Methods
- `retrieve-from-environment OPTION ENV-VAL before` [Method]
Assert that ENV-VAL is not null.
- `retrieve-from-environment (FLAG flag) ENV-VAL` [Method]
`retrieve-from-environment (OPTION valued-option) ENV-VAL` [Method]
- `retrieve-from-long-call OPTION CMDLINE-NAME` [Generic Function]
&optional *CMDLINE-ARGUMENT CMDLINE*
Retrieve OPTION's value from a long call.
CMDLINE-NAME is the name used on the command-line.
CMDLINE-ARGUMENT is a potentially already parsed cmdline argument.
Otherwise, CMDLINE is where to find an argument.
This function returns three values:
- the retrieved value,
- the value source,
- the new command-line (possibly with the first item popped if the option requires an argument).
- Package** [net.didierverna.clon], page 27,
Source [cmdline], page 19, (Lisp file)
Methods
- `retrieve-from-long-call (OPTION option)` [Method]
CMDLINE-NAME &optional CMDLINE-ARGUMENT
CMDLINE
- `retrieve-from-long-call (OPTION valued-option)` [Method]
CMDLINE-NAME &optional CMDLINE-ARGUMENT
CMDLINE
- `retrieve-from-negated-call OPTION` [Generic Function]
Retrieve OPTION's value from a negated call.
- Package** [net.didierverna.clon], page 27,
Source [cmdline], page 19, (Lisp file)
Methods
- `retrieve-from-negated-call (OPTION option)` [Method]
`retrieve-from-negated-call (OPTION valued-option)` [Method]
`retrieve-from-negated-call (NEGATABLE negatable)` [Method]

retrieve-from-short-call *OPTION &optional* [Generic Function]
CMDLINE-ARGUMENT CMDLINE

Retrieve *OPTION*'s value from a short call.

CMDLINE-ARGUMENT is a potentially already parsed cmdline argument.

Otherwise, *CMDLINE* is where to find an argument.

This function returns three values:

- the retrieved value,
- the value source,
- the new command-line (possibly with the first item popped if the option requires an argument).

Package [net.didierverna.clon], page 27,

Source [cmdline], page 19, (Lisp file)

Methods

retrieve-from-short-call (*OPTION option*) **&optional** [Method]
CMDLINE-ARGUMENT CMDLINE

retrieve-from-short-call (*OPTION valued-option*) [Method]
&optional *CMDLINE-ARGUMENT CMDLINE*

right-padding *OBJECT* [Generic Function]

Package [net.didierverna.clon], page 27,

Methods

right-padding (*FACE face*) [Method]

The face right padding.

This property can take the following forms:

- <NUMBER>: the padding is relative to the enclosing face,
- SELF: the padding is set to wherever the face happens to be closed,
- (<NUMBER> ABSOLUTE): the padding is set in absolute value,
- (<NUMBER> :RELATIVE-TO <FACE-NAME>): the padding is set relatively to a parent face named *FACE-NAME*.

Source [face], page 20, (Lisp file)

search-path *OBJECT* [Generic Function]

Package [net.didierverna.clon], page 27,

Methods

search-path (*CONTEXT context*) [Method]

The search path for Clon files.

Source [context], page 24, (Lisp file)

sface-tree *OBJECT* [Generic Function]

Package [net.didierverna.clon], page 27,

Methods

sface-tree (*SHEET sheet*) [Method]

The sheet's sface tree.

Source [sheet], page 21, (Lisp file)

- short-call** *CONDITION* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- short-call** (*CONDITION* unrecognized-short-call-error) [Method]
Source [context], page 24, (Lisp file)
- short-name** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- short-name** (*OPTION* option) [Method]
The option's short name.
Source [option], page 13, (Lisp file)
- short-pack** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- short-pack** (*CONTEXT* context) [Method]
Return the short pack of *CONTEXT*'s synopsis.
Source [context], page 24, (Lisp file)
- short-pack** (*SYNOPSIS* synopsis) [Method]
The short pack string.
Source [synopsis], page 20, (Lisp file)
- short-pack-char** *OPTION* &optional *AS-STRING* [Generic Function]
Return *OPTION*'s short pack character, if any.
If *AS-STRING*, return a string of that character.
Package [net.didierverna.clon], page 27,
Source [option], page 13, (Lisp file)
Methods
- short-pack-char** (*OPTION* valued-option) &optional *AS-STRING* [Method]
Return *OPTION*'s short pack character if *OPTION*'s argument is optional.
Source [valued], page 14, (Lisp file)
- short-pack-char** (*OPTION* option) &optional *AS-STRING* [Method]
Return *OPTION*'s potential pack character.
- short-syntax-help-spec-prefix** *OPTION* [Generic Function]
Return the help specification prefix for *OPTION*'s short call.
Package [net.didierverna.clon], page 27,
Source [valued], page 14, (Lisp file)
Methods

- `short-syntax-help-spec-prefix` (*OPTION* negatable) [Method]
Source [negatable], page 15, (Lisp file)
- `short-syntax-help-spec-prefix` (*OPTION* valued-option) [Method]
- `sibling` *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `sibling` (*SFACE* sface) [Method]
 The SFace's raw sibling.
Source [sheet], page 21, (Lisp file)
- `stream-ioctl-output-handle` *STREAM* [Generic Function]
 Return STREAM's ioctl output handle or NIL.
Package [net.didierverna.clon], page 27,
Source [termio], page 11, (Lisp file)
Methods
- `stream-ioctl-output-handle` (*STREAM* synonym-stream) [Method]
`stream-ioctl-output-handle` (*STREAM* two-way-stream) [Method]
`stream-ioctl-output-handle` (*STREAM* fd-stream) [Method]
`stream-ioctl-output-handle` *STREAM* [Method]
- `stringify` *VALUED-OPTION* *VALUE* [Generic Function]
 Transform VALUED-OPTION's VALUE into an argument.
 This is the opposite of argument conversion.
Package [net.didierverna.clon], page 27,
Source [valued], page 14, (Lisp file)
Methods
- `stringify` (*XSWITCH* xswitch) *VALUE* [Method]
 Transform XSWITCH's VALUE into an argument.
Source [xswitch], page 18, (Lisp file)
- `stringify` (*ENUM* enum) *VALUE* [Method]
 Transform ENUM's VALUE into an argument.
Source [enum], page 17, (Lisp file)
- `stringify` (*PATH* path) *VALUE* [Method]
 Transform PATH's VALUE into an argument.
Source [path], page 17, (Lisp file)
- `stringify` (*LISPOBJ* lispobj) *VALUE* [Method]
 Transform LISPOBJ's VALUE into an argument.
Source [lispobj], page 16, (Lisp file)

- stringify** (*STROPT* stropt) *VALUE* [Method]
 Transform STROPT's VALUE into an argument.
Source [stropt], page 16, (Lisp file)
- stringify** (*SWITCH* switch) *VALUE* [Method]
 Transform SWITCH's VALUE into an argument.
Source [switch], page 16, (Lisp file)
- subface** *FACE* *name(s)* [Generic Function]
 Return subface of FACE named NAME(S) or nil.
 If a list of names is provided instead of a single one, follow a subface branch matching those names to find the leaf face.
Package [net.didierverna.clon], page 27,
Source [face], page 20, (Lisp file)
Methods
- subface** *FACE* (*NAME* symbol) [Method]
 Return FACE's subface named NAME, or nil.
- subface** *FACE* (*NAMES* list) &aux *BRANCH* [Method]
 Return the leaf face from FACE's subbranch matching NAMES, or nil.
- subfaces** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- subfaces** (*FACE* face) [Method]
 The face children.
Source [face], page 20, (Lisp file)
- synopsis** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- synopsis** (*CONTEXT* context) [Method]
 The program synopsis.
Source [context], page 24, (Lisp file)
- theme** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- theme** (*CONTEXT* context) [Method]
 The theme filename.
Source [context], page 24, (Lisp file)
- top-padding** *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods

- `top-padding` (*HELP-SPEC* list) [Method]
Source [sheet], page 21, (Lisp file)
- `top-padding` *OTHER* [Method]
Source [sheet], page 21, (Lisp file)
- `top-padding` (*FACE* face) [Method]
 The face top padding.
 This property can take the following forms:
 - nil: the output can start right away,
 - 0: the output should start on the next line,
 - N>0: there should be N empty lines before the output.
Source [face], page 20, (Lisp file)
- `traversedp` *OBJECT* [Generic Function]
 (`setf traversedp`) *NEW-VALUE OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `traversedp` (*ITEM* item) [Method]
 (`setf traversedp`) *NEW-VALUE (ITEM* item) [Method]
 The item's traversal state.
Source [item], page 13, (Lisp file)
- `typespec` *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `typespec` (*LISPOBJ* lispobj) [Method]
 A type specifier the option's value should satisfy.
Source [lispobj], page 16, (Lisp file)
- `underline` *OBJECT* [Generic Function]
Package [net.didierverna.clon], page 27,
Methods
- `underline` (*FACE* face) [Method]
 The face's underline level.
Source [face], page 20, (Lisp file)
- `untraverse` *ITEM* [Generic Function]
 Reset *ITEM*'s traversal state, and return *ITEM*.
Package [net.didierverna.clon], page 27,
Source [item], page 13, (Lisp file)
Methods
- `untraverse` (*CONTEXT* context) [Method]
 Untraverse *CONTEXT* synopsis.
Source [context], page 24, (Lisp file)

<code>untraverse</code> (<i>CONTAINER</i> container)	[Method]
Untraverse all <i>CONTAINER</i> items.	
Source [container], page 18, (Lisp file)	
<code>untraverse</code> (<i>OPTION</i> option)	[Method]
<i>OPTION</i> is a terminal object: just return it.	
Source [option], page 13, (Lisp file)	
<code>untraverse</code> (<i>TEXT</i> text)	[Method]
<i>TEXT</i> is a terminal object: just return it.	
Source [text], page 13, (Lisp file)	
<code>untraverse</code> (<i>ITEM</i> item) after	[Method]
Mark <i>ITEM</i> as untraversed.	
<code>value</code> <i>CONDITION</i>	[Generic Function]
Package [net.didierverna.clon], page 27,	
Methods	
<code>value</code> (<i>CONDITION</i> invalid-value)	[Method]
Source [valued], page 14, (Lisp file)	
<code>visiblep</code> <i>OBJECT</i>	[Generic Function]
Package [net.didierverna.clon], page 27,	
Methods	
<code>visiblep</code> (<i>FACE</i> face)	[Method]
Whether the face is visible.	
Source [face], page 20, (Lisp file)	
<code>yes-values</code> <i>OBJECT</i>	[Generic Function]
<code>(setf yes-values)</code> <i>NEW-VALUE OBJECT</i>	[Generic Function]
Package [net.didierverna.clon], page 27,	
Methods	
<code>yes-values</code> (<i>SWITCH-BASE</i> switch-base)	[Method]
<code>(setf yes-values)</code> <i>NEW-VALUE</i> (<i>SWITCH-BASE</i> switch-base)	[Method]
The possible 'yes' values.	
Source [switch-base], page 15, (Lisp file)	

6.2.6 Conditions

<code>cmdline-error</code>	[Condition]
An error related to a command-line item.	
Package [net.didierverna.clon], page 27,	
Source [cmdline], page 19, (Lisp file)	
Direct superclasses	
error	

Direct subclasses

- [cmdline-option-error], page 92, (condition)
- [invalid-short-equal-syntax], page 95, (condition)
- [invalid-negated-equal-syntax], page 95, (condition)
- [cmdline-junk-error], page 92, (condition)
- [unrecognized-short-call-error], page 97, (condition)
- [unrecognized-negated-call-error], page 97, (condition)
- [unknown-cmdline-option-error], page 97, (condition)

Direct methods

[item], page 79, (method)

Direct slots

item [Slot]
 The concerned command-line item.

Initargs :item

Readers [item], page 79, (generic function)

cmdline-junk-error [Condition]

An error related to a command-line piece of junk.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

Direct superclasses

[cmdline-error], page 91, (condition)

Direct methods

[junk], page 80, (method)

Direct slots

item [Slot]
 The piece of junk appearing on the command-line.

Initargs :junk, :item

Readers [junk], page 80, (generic function)

cmdline-option-error [Condition]

An error related to a command-line (known) option.

Package [net.didierverna.clon], page 27,

Source [cmdline], page 19, (Lisp file)

Direct superclasses

- [option-error], page 96, (condition)
- [cmdline-error], page 91, (condition)

Direct subclasses

- [spurious-cmdline-argument], page 96, (condition)
- [invalid-negated-syntax], page 95, (condition)
- [invalid-cmdline-argument], page 94, (condition)
- [missing-cmdline-argument], page 96, (condition)

- Direct methods**
 [name], page 81, (method)
- Direct slots**
 item [Slot]
 The option's name as it appears on the command-line.
 Initargs :name, :item
 Readers [name], page 81, (generic function)
- environment-error [Condition]
 An error related to an environment variable.
- Package** [net.didierverna.clon], page 27,
Source [environ], page 19, (Lisp file)
- Direct superclasses**
 error
- Direct subclasses**
 [environmental-option-error], page 93, (condition)
- Direct methods**
 [env-var], page 76, (method)
- Direct slots**
 env-var [Slot]
 The concerned environment variable.
 Initargs :env-var
 Readers [env-var], page 76, (generic function)
- environmental-option-error [Condition]
 An error related to an option's environment variable.
- Package** [net.didierverna.clon], page 27,
Source [environ], page 19, (Lisp file)
- Direct superclasses**
 • [option-error], page 96, (condition)
 • [environment-error], page 93, (condition)
- Direct subclasses**
 [invalid-environment-value], page 94, (condition)
- home-directory [Condition]
 Package [net.didierverna.clon], page 27,
Source [util], page 12, (Lisp file)
- Direct superclasses**
 warning
- Direct methods**
 • error-string
 • [error-string], page 76, (method)

Direct slots		
error-string		[Slot]
Initargs	:error-string	
Readers	[error-string], page 76, (generic function)	
Writers	[(setf error-string)], page 76, (generic function)	
invalid-argument		[Condition]
	An invalid argument error.	
Package	[net.didierverna.clon], page 27,	
Source	[valued], page 14, (Lisp file)	
Direct superclasses	[option-error], page 96, (condition)	
Direct subclasses	<ul style="list-style-type: none"> • [invalid-cmdline-argument], page 94, (condition) • [invalid-environment-value], page 94, (condition) 	
Direct methods	<ul style="list-style-type: none"> • [comment], page 74, (method) • [argument], page 70, (method) 	
Direct slots		
argument		[Slot]
	The invalid argument.	
Initargs	:argument	
Readers	[argument], page 70, (generic function)	
comment		[Slot]
	An additional comment about the error.	
Initargs	:comment	
Readers	[comment], page 74, (generic function)	
invalid-cmdline-argument		[Condition]
	An invalid command-line argument error.	
Package	[net.didierverna.clon], page 27,	
Source	[cmdline], page 19, (Lisp file)	
Direct superclasses	<ul style="list-style-type: none"> • [invalid-argument], page 94, (condition) • [cmdline-option-error], page 92, (condition) 	
invalid-environment-value		[Condition]
	An invalid environment variable's value error.	
Package	[net.didierverna.clon], page 27,	
Source	[environ], page 19, (Lisp file)	
Direct superclasses	<ul style="list-style-type: none"> • [invalid-argument], page 94, (condition) 	

- [environmental-option-error], page 93, (condition)

Direct methods

[env-val], page 76, (method)

Direct slots

argument [Slot]

The invalid environment variable value.

Initargs :env-val, :argument

Readers [env-val], page 76, (generic function)

invalid-negated-equal-syntax [Condition]

An error related to a negated-equal syntax.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

Direct superclasses

[cmdline-error], page 91, (condition)

invalid-negated-syntax [Condition]

An invalid negated syntax error.

Package [net.didierverna.clon], page 27,

Source [cmdline], page 19, (Lisp file)

Direct superclasses

[cmdline-option-error], page 92, (condition)

invalid-short-equal-syntax [Condition]

An error related to a short-equal syntax.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

Direct superclasses

[cmdline-error], page 91, (condition)

invalid-value [Condition]

An invalid value error.

Package [net.didierverna.clon], page 27,

Source [valued], page 14, (Lisp file)

Direct superclasses

[option-error], page 96, (condition)

Direct methods

- [comment], page 74, (method)

- [value], page 91, (method)

Direct slots

value [Slot]

The invalid value.

Initargs :value

Readers [value], page 91, (generic function)

- comment** [Slot]
 An additional comment about the error.
Initargs :comment
Readers [comment], page 74, (generic function)
- missing-cmdline-argument** [Condition]
 A missing command-line argument error.
Package [net.didierverna.clon], page 27,
Source [cmdline], page 19, (Lisp file)
Direct superclasses
 [cmdline-option-error], page 92, (condition)
- option-error** [Condition]
 An error related to an option.
Package [net.didierverna.clon], page 27,
Source [option], page 13, (Lisp file)
Direct superclasses
 error
Direct subclasses
 - [invalid-value], page 95, (condition)
 - [invalid-argument], page 94, (condition)
 - [cmdline-option-error], page 92, (condition)
 - [environmental-option-error], page 93, (condition)**Direct methods**
 [option], page 83, (method)
Direct slots
- option** [Slot]
 The concerned option.
Initargs :option
Readers [option], page 83, (generic function)
- spurious-cmdline-argument** [Condition]
 A spurious command-line argument error.
Package [net.didierverna.clon], page 27,
Source [cmdline], page 19, (Lisp file)
Direct superclasses
 [cmdline-option-error], page 92, (condition)
Direct methods
 [argument], page 70, (method)
Direct slots
- argument** [Slot]
 The spurious argument.
Initargs :argument
Readers [argument], page 70, (generic function)

- unknown-cmdline-option-error** [Condition]
 An error related to an unknown command-line option.
- Package** [net.didierverna.clon], page 27,
- Source** [context], page 24, (Lisp file)
- Direct superclasses**
 [cmdline-error], page 91, (condition)
- Direct methods**
- [argument], page 70, (method)
 - [name], page 81, (method)
- Direct slots**
- item** [Slot]
 The option's name as it appears on the command-line.
- Initargs** :name, :item
- Readers** [name], page 81, (generic function)
- argument** [Slot]
 The option's command-line argument.
- Initargs** :argument
- Readers** [argument], page 70, (generic function)
- unrecognized-negated-call-error** [Condition]
 An error related to an unrecognized negated call.
- Package** [net.didierverna.clon], page 27,
- Source** [context], page 24, (Lisp file)
- Direct superclasses**
 [cmdline-error], page 91, (condition)
- Direct methods**
 [negated-call], page 81, (method)
- Direct slots**
- item** [Slot]
 The unrecognized negated call on the command-line.
- Initargs** :negated-call, :item
- Readers** [negated-call], page 81, (generic function)
- unrecognized-short-call-error** [Condition]
 An error related to an unrecognized short call.
- Package** [net.didierverna.clon], page 27,
- Source** [context], page 24, (Lisp file)
- Direct superclasses**
 [cmdline-error], page 91, (condition)
- Direct methods**
 [short-call], page 87, (method)

Direct slots

item		[Slot]
	The unrecognized short call on the command-line.	
Initargs	:short-call, :item	
Readers	[short-call], page 87, (generic function)	

6.2.7 Structures

cmdline-option [Structure]

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

Direct superclasses

structure-object

Direct slots

name		[Slot]
Readers	[cmdline-option-name], page 54, (function)	
Writers	[(setf cmdline-option-name)], page 54, (function)	
option		[Slot]
Readers	[cmdline-option-option], page 54, (function)	
Writers	[(setf cmdline-option-option)], page 54, (function)	
value		[Slot]
Readers	[cmdline-option-value], page 54, (function)	
Writers	[(setf cmdline-option-value)], page 54, (function)	
source		[Slot]
Readers	[cmdline-option-source], page 54, (function)	
Writers	[(setf cmdline-option-source)], page 54, (function)	

frame [Structure]

The FRAME structure.

This structure hold layout properties used for printing.

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

Direct superclasses

structure-object

Direct subclasses

[highlight-frame], page 99, (structure)

Direct methods

- [close-frame], page 73, (method)
- [open-frame], page 83, (method)

Direct slots

sface		[Slot]
Readers	[frame-sface], page 56, (function)	
Writers	[(setf frame-sface)], page 56, (function)	

<code>left-margin</code>	[Slot]
Readers	[<code>frame-left-margin</code>], page 56, (function)
Writers	[(<code>setf frame-left-margin</code>)], page 56, (function)
<code>right-margin</code>	[Slot]
Readers	[<code>frame-right-margin</code>], page 56, (function)
Writers	[(<code>setf frame-right-margin</code>)], page 56, (function)
<code>highlight-frame</code>	[Structure]
The HIGHLIGHT-FRAME structure.	
This structure holds both layout and highlight properties used for printing.	
Package	[<code>net.didierverna.clon</code>], page 27,
Source	[<code>sheet</code>], page 21, (Lisp file)
Direct superclasses	[<code>frame</code>], page 98, (structure)
Direct methods	<ul style="list-style-type: none"> • [<code>close-frame</code>], page 73, (method) • [<code>open-frame</code>], page 83, (method)
Direct slots	
<code>highlight-property-instances</code>	[Slot]
Readers	[<code>highlight-frame-highlight-property-instances</code>], page 57, (function)
Writers	[(<code>setf highlight-frame-highlight-property-instances</code>)], page 57, (function)
<code>highlight-property-instance</code>	[Structure]
The HIGHLIGHT-PROPERTY-INSTANCE structure.	
Package	[<code>net.didierverna.clon</code>], page 27,
Source	[<code>sheet</code>], page 21, (Lisp file)
Direct superclasses	<code>structure-object</code>
Direct slots	
<code>name</code>	[Slot]
Readers	[<code>highlight-property-instance-name</code>], page 57, (function)
Writers	[(<code>setf highlight-property-instance-name</code>)], page 57, (function)
<code>value</code>	[Slot]
Readers	[<code>highlight-property-instance-value</code>], page 58, (function)
Writers	[(<code>setf highlight-property-instance-value</code>)], page 58, (function)

6.2.8 Classes

abstract-class [Class]

The ABSTRACT-CLASS class.
This is the meta-class for abstract classes.

Package [net.didierverna.clon], page 27,

Source [util], page 12, (Lisp file)

Direct superclasses
standard-class

Direct methods

- validate-superclass
- validate-superclass
- make-instance

container [Class]

The CONTAINER class.
This class is a mixin used in synopsis and groups to represent the program's command-line hierarchy.

Package [net.didierverna.clon], page 27,

Source [container], page 18, (Lisp file)

Direct superclasses
[item], page 107, (class)

Direct subclasses

- [group], page 107, (class)
- [synopsis], page 114, (class)

Direct methods

- [mapoptions], page 81, (method)
- initialize-instance
- initialize-instance
- [help-spec], page 78, (method)
- [check-name-clash], page 72, (method)
- [check-name-clash], page 72, (method)
- [check-name-clash], page 72, (method)
- [untraverse], page 91, (method)
- [items], page 80, (method)

Direct slots

items [Slot]

The items in the container.

Type list

Initargs :items

Readers [items], page 79, (generic function)

context [Class]

The CONTEXT class.

This class represents the associatiion of a synopsis and a set of command-line options based on it.

Package [net.didierverna.clon], page 27,

Source [context], page 24, (Lisp file)

Direct superclasses

standard-object

Direct methods

- initialize-instance
- [untraverse], page 90, (method)
- [mapoptions], page 81, (method)
- [potential-pack-p], page 84, (method)
- [clon-options-group], page 73, (method)
- [negated-pack], page 82, (method)
- [short-pack], page 87, (method)
- [postfix], page 84, (method)
- [error-handler], page 76, (method)
- [highlight], page 78, (method)
- [line-width], page 80, (method)
- [theme], page 89, (method)
- [search-path], page 86, (method)
- cmdline-options
- [cmdline-options], page 73, (method)
- [synopsis], page 89, (method)

Direct slots

synopsis [Slot]

The program synopsis.

Type net.didierverna.clon::synopsis

Initargs :synopsis

Initform net.didierverna.clon:*synopsis*

Readers [synopsis], page 89, (generic function)

programe [Slot]

The program name as it appears on the command-line.

Type string

cmdline-options [Slot]

The options from the command-line.

Type list

Readers [cmdline-options], page 73, (generic function)

Writers [(setf cmdline-options)], page 73, (generic function)

remainder		[Slot]
	The non-Clon part of the command-line.	
Type	<code>list</code>	
search-path		[Slot]
	The search path for Clon files.	
Readers	[<code>search-path</code>], page 86, (generic function)	
theme		[Slot]
	The theme filename.	
Readers	[<code>theme</code>], page 89, (generic function)	
line-width		[Slot]
	The line width for help display.	
Readers	[<code>line-width</code>], page 80, (generic function)	
highlight		[Slot]
	Clon's output highlight mode.	
Readers	[<code>highlight</code>], page 78, (generic function)	
error-handler		[Slot]
	The behavior to adopt on option retrieval errors.	
Type	<code>symbol</code>	
Initform	<code>:quit</code>	
Readers	[<code>error-handler</code>], page 76, (generic function)	

Direct Default Initargs

Initarg	Value
<code>:cmdline</code>	<code>(net.didierverna.clon:cmdline)</code>

enum [Class]

The ENUM class.

This class implements options whose values belong to a set of keywords.

Package [`net.didierverna.clon`], page 27,

Source [`enum`], page 17, (Lisp file)

Direct superclasses

- [`valued-option`], page 115, (class)
- [`enum-base`], page 103, (class)

Direct methods

- [`convert`], page 74, (method)
- [`check`], page 72, (method)
- [`stringify`], page 88, (method)

Direct slots

argument-name		[Slot]
Initform	<code>"type"</code>	

enum-base [Class]

The ENUM-BASE abstract class.

This class provides support for options including enumerated values.

Package [net.didierverna.clon], page 27,

Source [enum-base], page 17, (Lisp file)

Direct superclasses

standard-object

Direct subclasses

- [enum], page 102, (class)
- [xswitch], page 116, (class)

Direct methods

- initialize-instance
- [enum], page 75, (method)

Direct slots

enum [Slot]

The set of possible values.

Initargs :enum

Readers [enum], page 75, (generic function)

face [Class]

The FACE class.

Package [net.didierverna.clon], page 27,

Source [face], page 20, (Lisp file)

Direct superclasses

standard-object

Direct subclasses

[sface], page 110, (class)

Direct methods

- initialize-instance
- initialize-instance
- initialize-instance
- slot-unbound
- [parent], page 83, (method)
- [subfaces], page 89, (method)
- [background], page 71, (method)
- [foreground], page 76, (method)
- [framedp], page 77, (method)
- [crossed-out-p], page 75, (method)
- [concealedp], page 74, (method)
- [inversep], page 79, (method)
- [blink], page 71, (method)
- [underline], page 90, (method)

- [italicp], page 79, (method)
- [intensity], page 79, (method)
- [item-separator], page 79, (method)
- [bottom-padding], page 71, (method)
- [top-padding], page 90, (method)
- [right-padding], page 86, (method)
- [left-padding], page 80, (method)
- [visiblep], page 91, (method)
- [name], page 81, (method)

Direct slots

name	[Slot]
The face name.	
Initargs	:name
Readers	[name], page 81, (generic function)
visiblep	[Slot]
Whether the face is visible.	
Initargs	:visible
Initform	t
Readers	[visiblep], page 91, (generic function)
left-padding	[Slot]
The face left padding.	
This property can take the following forms:	
- <NUMBER>: the padding is relative to the enclosing face,	
- SELF: the padding is set to wherever the face happens to be opened,	
- (<NUMBER> ABSOLUTE): the padding is set in absolute value,	
- (<NUMBER> :RELATIVE-TO <FACE-NAME>): the padding is set relatively to a parent face named FACE-NAME.	
Initargs	:padding-left
Initform	0
Readers	[left-padding], page 80, (generic function)
right-padding	[Slot]
The face right padding.	
This property can take the following forms:	
- <NUMBER>: the padding is relative to the enclosing face,	
- SELF: the padding is set to wherever the face happens to be closed,	
- (<NUMBER> ABSOLUTE): the padding is set in absolute value,	
- (<NUMBER> :RELATIVE-TO <FACE-NAME>): the padding is set relatively to a parent face named FACE-NAME.	
Initargs	:padding-right
Initform	'net.didierverna.clon::self
Readers	[right-padding], page 86, (generic function)

- top-padding** [Slot]
The face top padding.
This property can take the following forms:
- nil: the output can start right away,
- 0: the output should start on the next line,
- N>0: there should be N empty lines before the output.
Initargs :padding-top
Readers [top-padding], page 89, (generic function)
- bottom-padding** [Slot]
The face bottom padding.
This property can take the following forms:
- nil: the next output can start right at the end of this face's,
- 0: the next output should start on the next line,
- N>0: there should be N empty lines before the next output.
Initargs :padding-bottom
Readers [bottom-padding], page 71, (generic function)
- item-separator** [Slot]
The face item separator.
Initargs :item-separator
Initform #\
Readers [item-separator], page 79, (generic function)
- intensity** [Slot]
The face intensity.
Initargs :intensity
Readers [intensity], page 79, (generic function)
- italicp** [Slot]
The face's italic status.
Initargs :italic
Readers [italicp], page 79, (generic function)
- underline** [Slot]
The face's underline level.
Initargs :underline
Readers [underline], page 90, (generic function)
- blink** [Slot]
The face's blink speed.
Initargs :blink
Readers [blink], page 71, (generic function)
- inversep** [Slot]
The face's inverse video status.
Initargs :inverse
Readers [inversep], page 79, (generic function)

<code>concealedp</code>	[Slot]
The face's concealed status.	
Initargs	<code>:concealed</code>
Readers	<code>[concealedp]</code> , page 74, (generic function)
<code>crossed-out-p</code>	[Slot]
The face's crossed out status.	
Initargs	<code>:crossed-out</code>
Readers	<code>[crossed-out-p]</code> , page 75, (generic function)
<code>framedp</code>	[Slot]
The face's framed status.	
Initargs	<code>:framed</code>
Readers	<code>[framedp]</code> , page 77, (generic function)
<code>foreground</code>	[Slot]
The face foreground.	
Initargs	<code>:foreground</code>
Readers	<code>[foreground]</code> , page 76, (generic function)
<code>background</code>	[Slot]
The face background.	
Initargs	<code>:background</code>
Readers	<code>[background]</code> , page 71, (generic function)
<code>subfaces</code>	[Slot]
The face children.	
Initargs	<code>:subfaces</code>
Readers	<code>[subfaces]</code> , page 89, (generic function)
<code>parent</code>	[Slot]
The face parent.	
Readers	<code>[parent]</code> , page 83, (generic function)
<code>flag</code>	[Class]
The FLAG class.	
This class implements options that don't take any argument.	
Package	<code>[net.didierverna.clon]</code> , page 27,
Source	<code>[flag]</code> , page 14, (Lisp file)
Direct superclasses	<code>[option]</code> , page 108, (class)
Direct methods	<code>[retrieve-from-environment]</code> , page 85, (method)

group [Class]

The GROUP class.

This class groups other groups, options or strings together, effectively implementing hierarchical program command-line.

Package [net.didierverna.clon], page 27,

Source [group], page 18, (Lisp file)

Direct superclasses

[container], page 100, (class)

Direct methods

- [help-spec], page 78, (method)
- [header], page 77, (method)

Direct slots

header [Slot]

The group's header.

Initargs :header

Readers [header], page 77, (generic function)

item [Class]

The ITEM class.

This class is the base class for all synopsis items.

Package [net.didierverna.clon], page 27,

Source [item], page 13, (Lisp file)

Direct superclasses

standard-object

Direct subclasses

- [text], page 115, (class)
- [option], page 108, (class)
- [container], page 100, (class)

Direct methods

- [mapoptions], page 81, (method)
- [help-spec], page 78, (method)
- [untraverse], page 91, (method)
- [hiddenp], page 78, (method)
- traversedp
- [traversedp], page 90, (method)

Direct slots

traversedp [Slot]

The item's traversal state.

Readers [traversedp], page 90, (generic function)

Writers [(setf traversedp)], page 90, (generic function)

- hiddenp** [Slot]
 Whether the item is hidden in help strings.
Initargs :hidden
Readers [hiddenp], page 78, (generic function)
- lispobj** [Class]
 The LISPOBJ class.
 This class implements read-from-string options.
Package [net.didierverna.clon], page 27,
Source [lispobj], page 16, (Lisp file)
Direct superclasses
 [valued-option], page 115, (class)
Direct methods
 - [convert], page 74, (method)
 - [check], page 72, (method)
 - [stringify], page 88, (method)
 - [typespec], page 90, (method)**Direct slots**
- argument-name** [Slot]
Initform "obj"
- typespec** [Slot]
 A type specifier the option's value should satisfy.
Initargs :typespec
Initform t
Readers [typespec], page 90, (generic function)
- negatable** [Class]
 The NEGATABLE Class.
 This class implements the negated syntax for the switch-based hierarchy.
Package [net.didierverna.clon], page 27,
Source [negatable], page 15, (Lisp file)
Direct superclasses
 standard-object
Direct subclasses
 [switch-base], page 112, (class)
Direct methods
 - [retrieve-from-negated-call], page 85, (method)
 - [negated-pack-char], page 82, (method)
 - [short-syntax-help-spec-prefix], page 88, (method)
- option** [Class]
 The OPTION class.
 This is the base class for all options.
Package [net.didierverna.clon], page 27,

Source [option], page 13, (Lisp file)

Direct superclasses

[item], page 107, (class)

Direct subclasses

- [flag], page 106, (class)
- [valued-option], page 115, (class)

Direct methods

- [mapoptions], page 81, (method)
- [retrieve-from-negated-call], page 85, (method)
- [retrieve-from-short-call], page 86, (method)
- [retrieve-from-long-call], page 85, (method)
- initialize-instance
- initialize-instance
- [negated-pack-char], page 82, (method)
- [short-pack-char], page 87, (method)
- [option-sticky-distance], page 83, (method)
- [check-name-clash], page 73, (method)
- [help-spec], page 78, (method)
- [untraverse], page 91, (method)
- [env-var], page 76, (method)
- [description], page 75, (method)
- [long-name], page 80, (method)
- [short-name], page 87, (method)

Direct slots

short-name [Slot]
The option's short name.

Type (or null string)

Initargs :short-name

Readers [short-name], page 87, (generic function)

long-name [Slot]
The option's long name.

Type (or null string)

Initargs :long-name

Readers [long-name], page 80, (generic function)

description [Slot]
The option's description.

Type (or null string)

Initargs :description

Readers [description], page 75, (generic function)

env-var [Slot]
 The option's associated environment variable.
Type (or null string)
Initargs :env-var
Readers [env-var], page 76, (generic function)

Direct Default Initargs

Initarg	Value
:internal	nil

path [Class]

The PATH class.

This class implements options whose values are (colon-separated lists of) pathnames.

Package [net.didierverna.clon], page 27,

Source [path], page 17, (Lisp file)

Direct superclasses

[valued-option], page 115, (class)

Direct methods

- [convert], page 74, (method)
- [check], page 72, (method)
- [stringify], page 88, (method)
- [path-type], page 84, (method)

Direct slots

argument-name [Slot]

Initform "path"

path-type [Slot]

The path type.

Initargs :type

Readers [path-type], page 83, (generic function)

sface [Class]

The SFACE class.

An SFace is the association of a face and its raw sibling. The sibling is used to create subfaces which would be missing from the original, user defined one.

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

Direct superclasses

[face], page 103, (class)

Direct methods

[sibling], page 88, (method)

Direct slots

sibling [Slot]

The SFace's raw sibling.

Readers [sibling], page 88, (generic function)

sheet [Class]

The SHEET class.

This class implements the notion of sheet for printing Clon help.

Package [net.didierverna.clon], page 27,

Source [sheet], page 21, (Lisp file)

Direct superclasses

standard-object

Direct methods

- initialize-instance
- initialize-instance
- frames
- [frames], page 77, (method)
- column
- [column], page 73, (method)
- [sface-tree], page 86, (method)
- [highlightp], page 79, (method)
- [line-width], page 80, (method)
- [output-stream], page 83, (method)

Direct slots

output-stream [Slot]
The sheet's output stream.

Type stream

Initargs :output-stream

Readers [output-stream], page 83, (generic function)

line-width [Slot]
The sheet's line width.

Type (integer 1)

Initargs :line-width

Readers [line-width], page 80, (generic function)

highlightp [Slot]
Whether to highlight SHEET's output.

Initargs :highlightp

Readers [highlightp], page 79, (generic function)

sface-tree [Slot]
The sheet's sface tree.

Readers [sface-tree], page 86, (generic function)

column [Slot]
The sheet's current column.

Type (integer 0)

Initform 0

Readers [column], page 73, (generic function)

Writers [(setf column)], page 73, (generic function)

frames [Slot]

The stack of currently open frames.

Type list

Readers [frames], page 77, (generic function)

Writers [(setf frames)], page 77, (generic function)

stropt [Class]

The STROPT class.

This class implements options the values of which are strings.

Package [net.didierverna.clon], page 27,

Source [stropt], page 16, (Lisp file)

Direct superclasses

[valued-option], page 115, (class)

Direct methods

- [convert], page 75, (method)
- [check], page 72, (method)
- [stringify], page 89, (method)

Direct slots

argument-name [Slot]

Initform "str"

switch [Class]

The SWITCH class.

This class implements boolean options.

Package [net.didierverna.clon], page 27,

Source [switch], page 16, (Lisp file)

Direct superclasses

- [valued-option], page 115, (class)
- [switch-base], page 112, (class)

Direct methods

- initialize-instance
- [convert], page 75, (method)
- [check], page 72, (method)
- [stringify], page 89, (method)

switch-base [Class]

The SWITCH-BASE abstract class.

This class provides support for options including boolean values.

Package [net.didierverna.clon], page 27,

Source [switch-base], page 15, (Lisp file)

Direct superclasses

[negatable], page 108, (class)

Direct subclasses

- [switch], page 112, (class)
- [xswitch], page 116, (class)

Direct methods

- initialize-instance
- initialize-instance
- [argument-style], page 70, (method)
- no-values
- [no-values], page 82, (method)
- yes-values
- [yes-values], page 91, (method)
- argument-styles
- [argument-styles], page 71, (method)

Direct slots

argument-styles [Slot]

The possible argument styles.

The position of every argument style in the list must correspond to the position of the associated strings in the yes-values and no-values slots.

Type list

Initargs :argument-styles

Readers [argument-styles], page 71, (generic function)

Writers [(setf argument-styles)], page 71, (generic function)

yes-values [Slot]

The possible 'yes' values.

Type list

Initargs :yes-values

Readers [yes-values], page 91, (generic function)

Writers [(setf yes-values)], page 91, (generic function)

no-values [Slot]

The possible 'no' values.

Type list

Initargs :no-values

Readers [no-values], page 82, (generic function)

Writers [(setf no-values)], page 82, (generic function)

argument-style [Slot]

The selected argument style.

Type keyword

Initargs :argument-style

Initform :yes/no

Readers [argument-style], page 70, (generic function)

Direct Default Initargs

Initarg	Value
:argument-type	:optional
:argument-styles	'(:yes/no :on/off :true/false :yup/nope :yeah/nah)
:yes-values	'("yes" "on" "true" "yup" "yeah")
:no-values	'("no" "off" "false" "nope" "nah")

synopsis [Class]

The SYNOPSIS class.

This class handles the description of the program's command-line options.

Package [net.didierverna.clon], page 27,

Source [synopsis], page 20, (Lisp file)

Direct superclasses

[container], page 100, (class)

Direct methods

- initialize-instance
- initialize-instance
- [potential-pack-p], page 84, (method)
- [help-spec], page 77, (method)
- [clon-options-group], page 73, (method)
- [potential-pack], page 84, (method)
- [negated-pack], page 82, (method)
- [short-pack], page 87, (method)
- [postfix], page 84, (method)

Direct slots

postfix [Slot]

A postfix to the program synopsis.

Type (or null string)

Initargs :postfix

Readers [postfix], page 84, (generic function)

short-pack [Slot]

The short pack string.

Type (or null string)

Readers [short-pack], page 87, (generic function)

negated-pack [Slot]

The negated pack string.

Type (or null string)

Readers [negated-pack], page 82, (generic function)

potential-pack [Slot]

The potential pack string.

Type (or null string)

Readers [potential-pack], page 84, (generic function)

clon-options-group [Slot]
The Clon options group.

Type `net.didierverna.clon::group`

Initargs `:clon-options-group`

Readers `[clon-options-group]`, page 73, (generic function)

text [Class]

The TEXT class.

This class implements plain text objects appearing in a synopsis.

Package `[net.didierverna.clon]`, page 27,

Source `[text]`, page 13, (Lisp file)

Direct superclasses

`[item]`, page 107, (class)

Direct methods

- `[check-name-clash]`, page 72, (method)
- `[check-name-clash]`, page 72, (method)
- `[help-spec]`, page 78, (method)
- `[untraverse]`, page 91, (method)
- `[contents]`, page 74, (method)

Direct slots

contents [Slot]
The actual text string.

Type `string`

Initargs `:contents`

Readers `[contents]`, page 74, (generic function)

valued-option [Class]

The VALUED-OPTION class.

This is the base class for options accepting arguments.

Package `[net.didierverna.clon]`, page 27,

Source `[valued]`, page 14, (Lisp file)

Direct superclasses

`[option]`, page 108, (class)

Direct subclasses

- `[switch]`, page 112, (class)
- `[stropt]`, page 112, (class)
- `[lisplib]`, page 108, (class)
- `[path]`, page 110, (class)
- `[enum]`, page 102, (class)
- `[xswitch]`, page 116, (class)

Direct methods

- `[retrieve-from-environment]`, page 85, (method)
- `[retrieve-from-negated-call]`, page 85, (method)

- [retrieve-from-short-call], page 86, (method)
- [retrieve-from-long-call], page 85, (method)
- initialize-instance
- initialize-instance
- [help-spec], page 78, (method)
- [short-syntax-help-spec-prefix], page 88, (method)
- [short-pack-char], page 87, (method)
- [option-sticky-distance], page 83, (method)
- [default-value], page 75, (method)
- [fallback-value], page 76, (method)
- [argument-required-p], page 70, (method)
- [argument-name], page 70, (method)

Direct slots

argument-name	[Slot]
The option's argument display name.	
Initargs	:argument-name
Initform	"arg"
Readers	[argument-name], page 70, (generic function)
argument-required-p	[Slot]
Whether the option's argument is required.	
Readers	[argument-required-p], page 70, (generic function)
fallback-value	[Slot]
The option's fallback value.	
Initargs	:fallback-value
Readers	[fallback-value], page 76, (generic function)
default-value	[Slot]
The option's default value.	
Initargs	:default-value
Readers	[default-value], page 75, (generic function)

Direct Default Initargs

Initarg	Value
:argument-type	:required

xswitch [Class]

The XSWITCH class.

This class merges the functionalities of switches and enumerations.

As such, the negated syntax is available for extended xswitches.

Package [net.didierverna.clon], page 27,

Source [xswitch], page 18, (Lisp file)

Direct superclasses

- [valued-option], page 115, (class)

- [enum-base], page 103, (class)
- [switch-base], page 112, (class)

Direct methods

- [convert], page 74, (method)
- [check], page 72, (method)
- [stringify], page 88, (method)

Direct slots

`enum`

The set of possible non-boolean values.

[Slot]

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A.1 Concepts

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