

# SRFIs: Libraries

Version 7.8

August 1, 2020

The Scheme Requests for Implementation (a.k.a. *SRFI*) process allows individual members of the Scheme community to propose libraries and extensions to be supported by multiple Scheme implementations.

Racket is distributed with implementations of many SRFIs, most of which can be implemented as libraries. To import the bindings of SRFI *n*, use

```
(require srfi/n)
```

This document lists the SRFIs that are supported by Racket and provides a link to the original SRFI specification (which is also distributed as part of Racket's documentation).

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## SRFI 1: List Library

```
(require srfi/1)      package: srfi-lite-lib
```

Original specification: SRFI 1

This SRFI works with pairs and lists as in *racket*, which are immutable, so it does not export *set-car!* and *set-cdr!*. The other provided bindings that end in *!* are equivalent to the corresponding bindings without *!*. Functions that are documented in the SRFI in bold (but not bold italic) correspond to *racket* functions, while the others are distinct from same-named *racket* functions.

## **SRFI 2: AND-LET\*: an AND with local bindings...**

```
(require srfi/2)      package: srfi-lib
```

Original specification: SRFI 2

## **SRFI 4: Homogeneous numeric vector datatypes**

```
(require srfi/4)      package: srfi-lib
```

Original specification: [SRFI 4](#)

This SRFI's reader and printer syntax is not supported. The bindings are also available from [scheme/foreign](#).

## **SRFI 6: Basic String Ports**

```
(require srfi/6)      package: srfi-lib
```

Original specification: [SRFI 6](#)

This SRFI's bindings are also available in [racket/base](#).

## **SRFI 7: Feature-based program configuration language**

```
(require srfi/7)    package: srfi-lib
```

Original specification: SRFI 7



## **SRFI 8: RECEIVE: Binding to multiple values**

```
(require srfi/8)      package: srfi-lite-lib
```

Original specification: SRFI 8

## SRFI 9: Defining Record Types

```
(require srfi/9)      package: srfi-lib
```

Original specification: SRFI 9

## SRFI 11: Syntax for receiving multiple values

```
(require srfi/11)      package: srfi-lib
```

Original specification: [SRFI 11](#)

This SRFI's bindings are also available in [racket/base](#), but without support for dotted “rest” bindings.

## **SRFI 13: String Libraries**

```
(require srfi/13)    package: srfi-lite-lib
```

Original specification: SRFI 13

## **SRFI 14: Character-set Library**

```
(require srfi/14)    package: srfi-lite-lib
```

Original specification: SRFI 14

## **SRFI 16: Syntax for procedures of variable arity**

```
(require srfi/16)      package: srfi-lib
```

Original specification: [SRFI 16](#)

This SRFI's bindings are also available in [racket/base](#).

## **SRFI 17: Generalized set!**

```
(require srfi/17)      package: srfi-lib
```

Original specification: SRFI 17

## SRFI 19: Time Data Types and Procedures

```
(require srfi/19)    package: srfi-lite-lib
```

Original specification: SRFI 19

The date structure produced by this SRFI library is identical to the one provided by `racket/base` in most cases (see `date`).

For backwards compatibility, when an invalid date field value is provided to the SRFI constructor, the constructor will produce a lax date structure. A lax date structure is *not* compatible with functions from `racket/base` or `racket/date`. SRFI functions such as `string->date` may return a lax date structure depending on the format string.

```
(lax-date? v) → boolean?  
v : any/c
```

Returns `#t` if `v` is a lax date structure. Otherwise returns `#f`.

Examples:

```
> (lax-date? (make-date 0 19 10 10 14 "bogus" "bogus" 0))  
#t  
> (lax-date? (make-date 0 19 10 10 14 1 2013 0))  
#f  
> (lax-date? (string->date "10:21:00" "~H:~M:~S"))  
#t
```



## **SRFI 23: Error reporting mechanism**

`(require srfi/23)`      `package: srfi-lib`

Original specification: [SRFI 23](#)

This SRFI's bindings are also available in [racket/base](#).

## **SRFI 25: Multi-dimensional Array Primitives**

```
(require srfi/25)    package: srfi-lib
```

Original specification: SRFI 25

## **SRFI 26: Notation for Specializing Parameters without Currying**

```
(require srfi/26)    package: srfi-lib
```

Original specification: SRFI 26

## **SRFI 27: Sources of Random Bits**

`(require srfi/27)`      `package: srfi-lib`

Original specification: [SRFI 27](#)

## SRFI 28: Basic Format Strings

```
(require srfi/28)    package: srfi-lib
```

Original specification: [SRFI 28](#)

This SRFI's bindings are also available in [racket/base](#).

## **SRFI 30: Nested Multi-line Comments**

```
(require srfi/30)    package: srfi-lib
```

Original specification: SRFI 30

This SRFI's syntax is part of Racket's default reader.

## **SRFI 31: A special form `rec` for recursive evaluation**

```
(require srfi/31)    package: srfi-lib
```

Original specification: SRFI 31

## SRFI 34: Exception Handling for Programs

```
(require srfi/34)    package: srfi-lib
```

Original specification: SRFI 34

An `else` is recognized as either the one from `racket/base` or as an identifier with the symbolic form `'else` and no binding.



## **SRFI 35: Conditions**

`(require srfi/35)`      package: `srfi-lib`

Original specification: SRFI 35

## **SRFI 38: External Representation for Data With Shared Structure**

```
(require srfi/38)    package: srfi-lib
```

Original specification: SRFI 38

This SRFI's syntax is part of Racket's default reader and printer.

## SRFI 39: Parameter objects

```
(require srfi/39)    package: srfi-lib
```

Original specification: [SRFI 39](#)

This SRFI's bindings are also available in [racket/base](#).

## **SRFI 40: A Library of Streams**

`(require srfi/40)`      `package: srfi-lib`

Original specification: SRFI 40

Superseded by [srfi/41](#).

## SRFI 41: Streams

```
(require srfi/41)      package: srfi-lib
```

Original specification: SRFI 41

The `stream-cons` operation from [srfi/41](#) is the same as from [racket/stream](#).

## SRFI 42: Eager Comprehensions

```
(require srfi/42)    package: srfi-lib
```

Original specification: SRFI 42

Forms that syntactically detect `if` recognize both `if` from [scheme/base](#) and `if` from [mzscheme](#).

## **SRFI 43: Vector Library**

```
(require srfi/43)    package: srfi-lib
```

Original specification: SRFI 43

## SRFI 45: Primitives for Expressing Iterative Lazy Algorithms

```
(require srfi/45)      package: srfi-lib
```

Original specification: SRFI 45

Additional binding:

```
(promise? v) → boolean?  
v : any/c
```

Returns `#t` if `v` is a promise, `#f` otherwise.



## **SRFI 48: Intermediate Format Strings**

```
(require srfi/48)    package: srfi-lib
```

Original specification: SRFI 48

## **SRFI 54: Formatting**

```
(require srfi/54)    package: srfi-lib
```

Original specification: SRFI 54

## **SRFI 57: Records**

`(require srfi/57)`    `package: srfi-lib`

Original specification: [SRFI 57](#)

## **SRFI 59: Vicinity**

`(require srfi/59)`    `package: srfi-lib`

Original specification: SRFI 59

## **SRFI 60: Integers as Bits**

```
(require srfi/60)    package: srfi-lib
```

Original specification: SRFI 60

## **SRFI 61: A more general cond clause**

```
(require srfi/61)    package: srfi-lib
```

Original specification: [SRFI 61](#)

## **SRFI 62: S-expression comments**

Original specification: SRFI 62

This SRFI's syntax is part of Racket's default reader (no `require` is needed).

## **SRFI 63: Homogeneous and Heterogeneous Arrays**

`(require srfi/63)`      `package: srfi-lib`

Original specification: SRFI 63



## **SRFI 64: A Scheme API for test suites**

`(require srfi/64)`    `package: srfi-lib`

Original specification: SRFI 64

## **SRFI 66: Octet Vectors**

`(require srfi/66)`    `package: srfi-lib`

Original specification: SRFI 66

## **SRFI 67: Compare Procedures**

`(require srfi/67)`      `package: srfi-lib`

Original specification: SRFI 67

## **SRFI 69: Basic hash tables**

`(require srfi/69)`      `package: srfi-lib`

Original specification: SRFI 69

## **SRFI 71: Extended LET-syntax for multiple values**

```
(require srfi/71)    package: srfi-lib
```

Original specification: SRFI 71

## **SRFI 74: Octet-Addressed Binary Blocks**

`(require srfi/74)`      `package: srfi-lib`

Original specification: SRFI 74

## **SRFI 78: Lightweight testing**

`(require srfi/78)`      `package: srfi-lib`

Original specification: SRFI 78

## **SRFI 86: MU & NU simulating VALUES & CALL-WITH-VALUES...**

```
(require srfi/86)      package: srfi-lib
```

Original specification: SRFI 86



## **SRFI 87: => in case clauses**

```
(require srfi/87)      package: srfi-lib
```

Original specification: SRFI 87

## **SRFI 98: An interface to access environment variables**

```
(require srfi/98)    package: srfi-lib
```

Original specification: SRFI 98

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