

SRFIs: Libraries

Version 4.1

August 12, 2008

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.

PLT Scheme 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 PLT Scheme and provides a link to the original SRFI specification (which is also distributed as part of PLT Scheme's documentation).

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SRFI 1: List Library

```
(require srfi/1)
```

Original specification: SRFI 1

This SRFI works with pairs and lists as in `scheme` and `mzscheme`, 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 `!`.

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

`(require srfi/2)`

Original specification: SRFI 2

SRFI 4: Homogeneous numeric vector datatypes

`(require srfi/4)`

Original specification: SRFI 4

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

SRFI 5: A compatible let form with signatures and rest arguments

`(require srfi/5)`

Original specification: SRFI 5

SRFI 6: Basic String Ports

`(require srfi/6)`

Original specification: SRFI 6

This SRFI's bindings are also available in `scheme/base`.

SRFI 7: Feature-based program configuration language

`(require srfi/7)`

Original specification: SRFI 7

SRFI 8: RECEIVE: Binding to multiple values

`(require srfi/8)`

Original specification: SRFI 8

SRFI 9: Defining Record Types

`(require srfi/9)`

Original specification: SRFI 9

SRFI 11: Syntax for receiving multiple values

`(require srfi/11)`

Original specification: SRFI 11

This SRFI's bindings are also available in `scheme/base`, but without support for dotted "rest" bindings.

SRFI 13: String Libraries

`(require srfi/13)`

Original specification: SRFI 13

SRFI 14: Character-set Library

`(require srfi/14)`

Original specification: SRFI 14

SRFI 16: Syntax for procedures of variable arity

`(require srfi/16)`

Original specification: [SRFI 16](#)

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

SRFI 17: Generalized set!

`(require srfi/17)`

Original specification: SRFI 17

SRFI 19: Time Data Types and Procedures

`(require srfi/19)`

Original specification: SRFI 19

Care must be taken NOT to confuse the internal date structure with the PLT Scheme `date`; they are not the same, and all procedures from the SRFI library expect the former.

SRFI 23: Error reporting mechanism

`(require srfi/23)`

Original specification: [SRFI 23](#)

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

SRFI 25: Multi-dimensional Array Primitives

(require `srfi/25`)

Original specification: SRFI 25

SRFI 26: Notation for Specializing Parameters without Currying

(require `srfi/26`)

Original specification: SRFI 26

SRFI 27: Sources of Random Bits

`(require srfi/27)`

Original specification: SRFI 27

SRFI 28: Basic Format Strings

`(require srfi/28)`

Original specification: SRFI 28

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

SRFI 29: Localization

(require `srfi/29`)

Original specification: SRFI 29

SRFI 30: Nested Multi-line Comments

`(require srfi/30)`

Original specification: SRFI 30

This SRFI's syntax is part of PLT Scheme's default reader.

SRFI 31: A special form rec for recursive evaluation

(require `srfi/31`)

Original specification: SRFI 31

SRFI 34: Exception Handling for Programs

`(require srfi/34)`

Original specification: SRFI 34

SRFI 35: Conditions

(require `srfi/35`)

Original specification: SRFI 35

SRFI 38: External Representation for Data With Shared Structure

`(require srfi/38)`

Original specification: SRFI 38

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

SRFI 39: Parameter objects

`(require srfi/39)`

Original specification: [SRFI 39](#)

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

SRFI 40: A Library of Streams

(require [srfi/40](#))

Original specification: SRFI 40

Superseded by [srfi/41](#).

SRFI 41: Streams

`(require srfi/41)`

Original specification: SRFI 41

SRFI 42: Eager Comprehensions

`(require srfi/42)`

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)`

Original specification: SRFI 43

SRFI 45: Primitives for Expressing Iterative Lazy Algorithms

```
(require srfi/45)
```

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`)

Original specification: SRFI 48

SRFI 54: Formatting

(require `srfi/54`)

Original specification: SRFI 54

SRFI 57: Records

(require `srfi/57`)

Original specification: SRFI 57

SRFI 59: Vicinity

(require `srfi/59`)

Original specification: SRFI 59

SRFI 60: Integers as Bits

`(require srfi/60)`

Original specification: SRFI 60

SRFI 61: A more general cond clause

(require `srfi/61`)

Original specification: SRFI 61

SRFI 62: S-expression comments

Original specification: SRFI 62

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

SRFI 63: Homogeneous and Heterogeneous Arrays

`(require srfi/63)`

Original specification: SRFI 63

SRFI 64: A Scheme API for test suites

`(require srfi/64)`

Original specification: SRFI 64

SRFI 66: Octet Vectors

`(require srfi/66)`

Original specification: SRFI 66

SRFI 67: Compare Procedures

`(require srfi/67)`

Original specification: SRFI 67

SRFI 69: Basic hash tables

`(require srfi/69)`

Original specification: SRFI 69

SRFI 71: Extended LET-syntax for multiple values

`(require srfi/71)`

Original specification: SRFI 71

SRFI 74: Octet-Addressed Binary Blocks

(require `srfi/74`)

Original specification: SRFI 74

SRFI 78: Lightweight testing

(require `srfi/78`)

Original specification: SRFI 78

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

`(require srfi/86)`

Original specification: SRFI 86

SRFI 87: => in case clauses

```
(require srfi/87)
```

Original specification: SRFI 87

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