

# M2 Manual All-Styles Document

Version 8.14

August 9, 2024

## Contents

<b>1</b>	<b>Code Styles</b>	<b>3</b>
<b>2</b>	<b>Definition Blocks</b>	<b>5</b>
<b>3</b>	<code>bitmap-dc%</code>	<b>7</b>
<b>4</b>	<b>Miscellaneous</b>	<b>8</b>
<b>5</b>	<b>Bibliography</b>	<b>9</b>
	<b>Bibliography</b>	<b>10</b>

# 1 Code Styles

- RktSym (identifier without for-label binding): `unbound` or `example`
- RktValLink (link to variable form): `cons`
- RktValDef (definition of variable, normally combined with RktValLink): `list` in

```
| (list) → any/c
```

```
| list : any/c
```

- RktStxLink (link to syntactic form): `lambda`
- RktStxDef (definition of syntactic form, normally combined with RktStxLink): `lambda` in

```
| (lambda ...)
```

- RktSymDef (definition without binding, normally a mistake, combined with RktSym): `unbound-identifier` in

```
| (unbound-identifier)
```

- RktVar (local variable or meta-variable): `variable` or `example`
- RktRes (REPL result): `'(1 2 3)` or `example`
- RktOut (as written to the current output port): `example`
- RktErr (errors): `example` or the error message in

```
> (+ 1 'a)
+.: contract violation
   expected: number?
   given: 'a
```

- RktCmt (comments): `example` or

```
; comment
```

- RktVal (values): `'(1 2 3)` or `example`
- highlighted (highlight via background): `(not-this example nor-this)`
- RktIn on a RktInBG: `example`
- RktPn (parentheses, etc.): `([{}])` or `example`

- RktRdr (reader shorthands): non-parentheses in (#` () ,@())
- RktMeta (the unquote comma): ,1 or example or “#reader” below.  

```
#reader module      package: base
```
- RktMod (module name; normally RktModLink instead): example
- RktModLink (a linked module reference): racket/base
- RktOpt (option-argument brackets): brackets in  

```
(f [x]) → any
  x : any/c = 1
```
- RktKw (not normally used): example

The RktBlk style class is used for a table of multiple lines (more than 1) of Racket code:

```
(define x (+ 1 2))
(+ x 3)
```

## 2 Definition Blocks

```
(require racket/base)      package: base
```

The module-declaration box above is in a `defmodule` table. The package-specification part is in an `RpackageSpec` wrapper.

The definitions below are marked so that they are not link targets. If they were link targets, the table-of-contents panel on the left would have entries for them.

```
(cons really-long-name-for-the-first-argument
      really-long-name-for-the-second-argument) → pair?
really-long-name-for-the-first-argument : any/c
really-long-name-for-the-second-argument : (or/c any/c
                                              any/c)
```

This definition box starts with a `SVInsetFlow` wrapper, which is a `scribble/base` style class for the `'vertical-inset` style name on a block; it should give the block suitable vertical space before and after.

The next layer is a boxed plus `RBoxed` table. The boxed style class is from `scribble/base` and the `'boxed` style name on a table. The `RBoxed` style class is from the `scribble/manual` layer. Both boxed and `RBoxed` are used for all definition boxes by `scribble/manual` forms.

The initial content of the table includes a `SubFlow` (a `scribble/base` style class for non-indented flow) to combine blocks for the background label with the first line of the table. The background label “procedure” has an `RBackgroundLabel` outer wrapper, which makes the label float right. (The wrapper also has the `SIEMHidden` style class, which built-in for all Scribble HTML output and makes the label hidden on Internet Explorer 6 and earlier.) The background label has an `RBackgroundLabelInner` inner wrapper, which makes the label suitably faint. The content part of the first line is wrapped in `RForeground`, which ensures that it is in front of the background label.

In a procedure definition box:

- When the initial “prototype” call in the definition box spans multiple lines, the table that contains the call has the `prototype` style class in addition to `RForeground`.
- When the contract or default value for an argument spans multiple lines, then the contract, the “=” for a value (if any), and value (if any) are wrapped in an table with the `argcontract` style class.

Finally, the definition box and all of the associated explanation text are wrapped in `SIntra-para` blocks and grouped into a single `<p>`.

```
(lambda ...)  
  
example = good  
         | bad
```

When a syntactic-form specification has a grammar, the grammar is in a table with the `spec-grammar` style class.

Since no explanation flow is attached to the above `defform` use, there's no `SIntrapara` block around the table (just a `<p>`).

```
(cons a d) → pair?  
  a : any/c  
  d : any/c  
(lambda ...)
```

Putting definitions together with `deftogether` converts the `RBoxed` and `boxed` tables that would be generated for the individual definitions into tables with the `together` style class. The tables are then combined as rows in a new table with the `RBoxed` and `boxed` style classes.

A `defsubform`, `specsubform`, etc., such as

```
(lambda ...)
```

is indented though a wrapper with a `leftindent` style class.

### 3 `bitmap-dc%`

```
bitmap-dc% : class?  
  superclass: object%  
  extends: dc<%>
```

In multi-page mode, this class definition gets its own page, and there's an “inherited methods” table in the margin. The table has style class `inherited`, and the words “inherited methods:” and “from” have style class `inheritedlbl`.

```
(send a-bitmap-dc set-bitmap bm) → any  
  bm : any/c
```

A method example; nothing new here, but note how the defined identifier is not at the start of the box.

## 4 Miscellaneous

In `filebox` rendering,

This is a file box

```
"example.rkt"
```

a `Rfilebox` wrapper surrounds the file name in a `Rfiletitle` outer wrapper and an `Rfile-name` inner wrapper, plus the file content in an `Rfilecontent` wrapper.

The `inset-flow` form generates a `nested-flow` with style class `insetpara`.

Changed in version 1.0: History paragraphs have the `SHistory` style class.

## 5 Bibliography

The bibliography table for the citation [Example] as the RBibliography style class.

## **Bibliography**

[Example] "Example bibliography entry."