M2 Manual All-Styles Document

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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 `SIEHidden` 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 `SIntrapara` blocks and grouped into a single `<p>`.

```
(lambda ...)

example = good
        | bad
```

When a syntactic-from 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,

```
"example.rkt"
```

This is a file box

a `Rfilebox` wrapper surrounds the file name in a `Rfiletitle` outer wrapper and an `Rfilename` 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."