Perl Best Practices

Reference Guide

Code Layout

1. Brace and parenthesize in K&R style.
2. Separate your control keywords from the following opening bracket.
3. Don't separate subroutine or variable names from the following opening bracket.
4. Don't use unnecessary parentheses for builtins and 'keywordy' builtins.
5. Separate complex keys or indices from their surrounding brackets.
6. Use whitespace to help binary operators stand out from their operands.
7. Place a semicolon after every statement.
8. Place a comma after every value in a multiline list.
9. Use 78-column lines.
10. Use four-column indentation levels.
11. Indent with spaces, not tabs.
12. Never place two statements on the same line.
13. Code in paragraphs.
14. Don't cuddle an **else**.
15. Align corresponding items vertically.
16. Break long expressions before an operator.
17. Factor out long expressions in the middle of statements.
18. Always break a long expression at the operator of the lowest precedence.
19. Break long assignments before the assignment operator.
20. Format cascaded ternary operators as a cascade.
21. Parenthesize long lists.
22. Enforce your chosen layout style mechanically.

Naming Conventions

23. Use grammatical templates when forming identifiers.
24. Name booleans after their associated test.
25. Mark variables that store references with a **_ref** suffix.
26. Name arrays in the plural and hashes in the singular.
27. Use underscores to separate words in multiword identifiers.
28. Distinguish different program components by case.
29. Abbreviate only when the meaning remains unambiguous.
30. Abbreviate only when the meaning remains unambiguous.
31. Avoid using inherently ambiguous words in names.
32. Prefix 'for internal use only' subroutines with an underscore.

Values and Expressions

33. Use interpolating string delimiters only for strings that actually interpolate.
34. Don't use `""` or `''` for an empty string.
35. Don't write one-character strings in visually ambiguous ways.
36. Use named character escapes instead of numeric escapes.
37. Use named constants, but don't use **constant**.
38. Don't pad decimal numbers with leading zeros.
39. Use underscores to improve the readability of long numbers.
40. Lay out multiline strings over multiple lines.
41. Use a here-doc when a multiline string exceeds two lines.
42. Use a 'there-doc' when a here-doc would compromise your indentation.
43. Make every here-doc terminator a single uppercase identifier with a standard prefix.
44. When introducing a here-doc, quote the terminator.
45. Don't use barewords.
46. Reserve **use** for pragmas.
47. Don't use commas to sequence statements.
48. Don't mix high- and low-precedence booleans.
49. Parenthesize every low list.
50. Use table-lookup to test for membership in lists of strings, use **any()** for membership of lists of anything else.

Variables

51. Avoid using non-lexical variables.
52. Don't use package variables in your own development.
53. If you're forced to modify a package variable, **local**ize it.
54. Initialize any variable you **local**ize.
55. **use English** for the few familiar punctuation variables.
56. If you're forced to modify a punctuation variable, **local**ize it.
57. Don't use the regex match variables.
58. Beware of any modification via **$_**.
59. Use negative indices when counting from the end of an array.
60. Take advantage of hash and array slicing.
61. Use a tabular layout for slices.
62. Factor large key or index lists out of their slices.

Control Structures

63. Use block **if**, not postfix **if**.
64. Reserve postfix **if** for flow-of-control statements.
65. Don't use postfix **unless**, **for**, **while**, or **until**.
66. Don't use **unless** or **until** at all.
67. Avoid C-style **for** statements.
68. Avoid subscripting arrays or hashes within loops.
69. Never subscript more than once in a loop.
70. Use named lexicals as explicit **for** loop iterators.
71. Always declare a **for** loop iterator variable with **my**.
72. Use **map** instead of **for** when generating new lists from old.
73. Use **grep** and **first** instead of **for** when searching for values in a list.
74. Use **for** instead of **map** when transforming a list in place.
75. Use a subroutine call to factor out complex list transformations.
76. Never modify **$_** in a list function.
77. Avoid cascading an **if**.
78. Use table look-up in preference to cascaded equality tests.
79. When producing a value, use tabular structures.
80. Don't use **do { ... } while** loops.
81. Report as many iterations as possible, as early as possible.
82. Don't contort loop structures just to consolidate control.
83. Use **for** and **redo** instead of an irregularly counted **while**.
84. Label every loop that is exited explicitly, and use the label with every **next**, **last**, or **redo**.

Documentation

85. Distinguish user documentation from technical documentation.
86. Create standard POD templates for modules and applications.
87. Extend and customize your standard POD templates.
88. Put user documentation in source files.
89. Keep all user documentation in a single place within your source file.
90. Place POD as close as possible to the end of the file.
91. Subdivide your technical documentation appropriately.
92. Use block templates for major comments.
93. Use full-line comments to explain the algorithm.
94. Use end-of-line comments to point out subtleties and oddities.
95. Comment anything that has puzzled or tricked you.
96. Consider whether it's better to rewrite than to comment.
97. Use 'invisible' POD sections for longer technical discussions.
98. Check the spelling, syntax, and sanity of your documentation.

Built-in Functions

99. Don't try to sort hash keys inside a **sort**.
100. Use **reverse** to reverse a list.
101. Use scalar **reverse** to reverse a scalar.
102. Use **unpack** to extract fixed-width fields.
103. Use **split** to extract simple variable-width fields.
104. Use **Text::CSV_XS** to extract complex variable-width fields.
105. Avoid string **eval**.
106. Consider building your sorting routines with **Sort::Maker**.
107. Use 4-arg **substr** instead of lvalue **substr**.
108. Make appropriate use of lvalue subs.
109. Use **glob**, not <...>.
110. Avoid a new **select** for non-integer always.
111. Always use a block with a **map** and **grep**.
112. Use the 'non-builtin builtins'.

Subroutines

113. Call subroutines with parentheses but without a leading **&**.
114. Don't give subroutines the same names as built-in functions.
115. Always unpack **@_** first.
116. Use a hash of named arguments for any subroutine that has more than three parameters.
117. Use **defined**/**exists** or **exists**/**use** to test for missing arguments.
118. Document any default argument values as soon as **@_** is unpacked.
119. Always return scalar or scalar returns.
120. Make list-returning subroutines return the 'obvious' value in scalar context.
121. When there is no 'obvious' scalar context return value, consider **Contextual::Return** instead.
122. Don't use subroutine prototypes.
123. Always return via an explicit **return**.
124. Use a bare **return** to return failure.

I/O

125. Don't use barewood filehandles.
126. Use indirect filehandles.
127. If you have to use a package filehandle, **local**ize it first.

Perl Best Practices

S Ashworth

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