THE PROBLEM: There are so many programming style variations (PSV). Which one do you use?

4 out of at least possible 7168 variations.

We analysed the distribution of PSV from 1998 to 2018. A consensus is building...

WHAT DRIVES PSV?

Effect of Style-guides: naming conventions

Effect of Introducing a New Language

Effect of Editors: line length (options, linters)

CRAN Packages Dependency Network (subgraph of 4 selected communities and the distribution of naming conventions for each community)

Divergence in Styles among Communities (dispute over 10 style-elements among 18 large communities)

Who is the “Naughty, Naughty”?
(numbers are the Euclidean distance to average community)

SUMMARY

Consensus-based Style (numbers are % of functions using that style-element)

Don’t use tab to indent (89.2%)

Use \( \text{if} \) on its own line, unless before \( \text{else} \) (89.2%)

Don’t explicitly type integers (i.e. \( \text{1L} \)) (60.4%)

Add a space after commas (83.7%)

Don’t use \( \text{?} \) for (95.1%)

Use same line \( \text{then a new} \text{line} \) (70.0%)

Use double quotes for strings (87.6%)

Add spaces around infix operators (55.3%)

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