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ARTofR

Do

- Use snake case (e.g. my_variable)
- Use "<-" to assign
- Add a space after commas
- Use TRUE / FALSE
- Put "{" on the same line and "}" on its own line
- Use double quotation ("") mark for strings
- Add spaces around infix operators

Don't

- Use dotted variable (e.g. my.variable)
- Use "=" to assign
- Explicitly type integers (e.g. 6L)
- Use T / F
- Terminate lines with semicolon
- Use single quotation (') mark for strings
- Use tab to indent

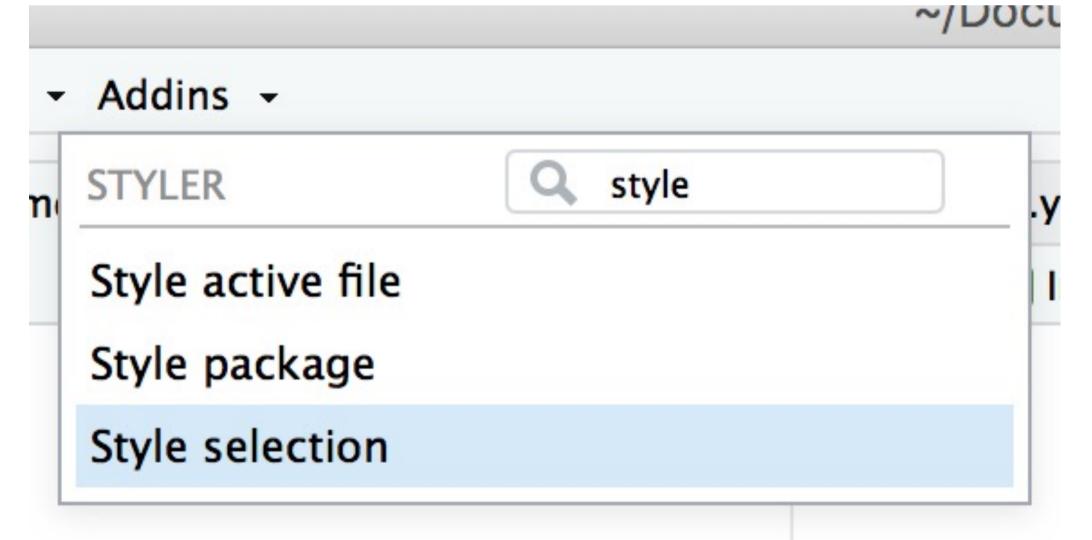
Good Example

soft.func <- function(m_v, leaky = FALSE) { if (leaky) { warnings("using leaky RELU!") return(ifelse(m_v > 0, m_v * 3)) } return(log(1 + exp(m_v))) }

Bad Example

```
softFunc=function(m.v,leaky=F)
{
   if(leaky)
   {
     warnings('using leaky RELU!')
     return(ifelse(m.v>0L,m.v*3)); }
   return(log(1L+exp(m.v))); }
```

'styler' for auto indent



Code structure

Method 1: Rmarkdown + Rstudio

Method 2: ARTofR (no Rstudio)

Tips:

- sub-titles ✓ navigation panel ✓ divider ✓
- in-line comments

 Paragraph comments
- inline comments are critical for reproduction
- -Good to copy and paste paraph from email/paper to explain codes
- Read me embedded in the R script (Author; Contacts; Time; Instructions; Problems)

Reference

There is no right in styling, the suggestions above are based on surveys and online guides: Yen, C. Y., Chang, M. H. W., & Chan, C. H. (2022). A Computational Analysis of the Dynamics of R Style Based on 108 Million Lines of Code from All CRAN Packages in the Past 21 Years. *R JOURNAL*, 14(1), 6-21.

Wickham, The tidyverse style guide https://github.com/tidyverse/style

