Style guide for rB3

# Reference list

* <https://csgillespie.github.io/efficientR/>
* <https://adv-r.hadley.nz/>
* <https://r4ds.had.co.nz/>
* <https://google.github.io/styleguide/Rguide.html>
* <http://web.stanford.edu/class/cs109l/unrestricted/resources/google-style.html>

# Public function vs private function

* Distinguish private functions (those intended to be called by the users) from private functions (back end functions)
* private functions should start from “.”

.destruct\_obj

# Function naming

* All lower case (unless names)
* Separate words by underscore “\_”
* Never use “.”
* Use prefix for any backend functions for easily identifiable front end functions

# Prefixes

|  |  |  |
| --- | --- | --- |
| **Prefix** | **Definition** | **Example** |
| fio | file I/O | fio\_read\_csv  fio\_write\_LA |
| plt | plotting backend functions | plt\_gg |
| sys | System functions | sys\_destruct\_obj  sys\_restruct\_obj |
| app | Shiny app backend functions |  |
|  |  |  |
|  |  |  |

# Variable naming

# Object types

Use S3 object, and use data.table as the standard class type. To check the data types, execute:

class(myData)

For structured rB3 object, declare using “data.type” attributes

attr(myStructuredData