What is metaprogramming?

Writing code that generates/manipulates code

Just like R has built-in objects and functions for working with character data, numeric data, tabular data, etc...

...it also has built-in objects and functions for working with code!

Objects: symbols, calls, expressions

Functions: quote(), as.symbol(), call(), substitute()

Functions in the rlang package: expr(), enexpr(),!

(We won't attempt to cover all this today...)

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Creating code objects using quote

dplyr::filter(diamonds, carat >= 3)