Enhancing Your Libraries' Security and Performance through Macros

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```
(defmacro fmt [s & args]
  (let [a (dec (count (filter #(not= "" %)
                              (str/split s #"%"))))
        b (count args)]
    (if (= a b)
      `(apply format ~s '~args)
      (exc "arguments to format don't match (expected " a
           ", got " b ")"))))
```

Listing 1: A safer format

- ▶ Doug Hoyte: Let Over Lambda
- ▶ Colin Jones: Mastering Clojure Macros
- ▶ Paul Graham: On Lisp (take with a grain of salt)
- ▶ These slides: `https://github.com/hellerve/talks`
- ▶ A series of blog posts on Scheme macros:
  `https://blog.veitheller.de/scheme-macros`

Thank you!

Questions?

Slides at `https://github.com/hellerve/talks`