

Real time recompilation of running JavaScript

Peter van der Zee
JSConf.us 2013

Whois

Peter van der Zee
JavaScript developer
Netherlands

qfox.nl
@kuvos

surfly.com

"Remote desktop in the browser"

JS1K
ZeonJS
ZeParser
HeatFiler

Demonstration

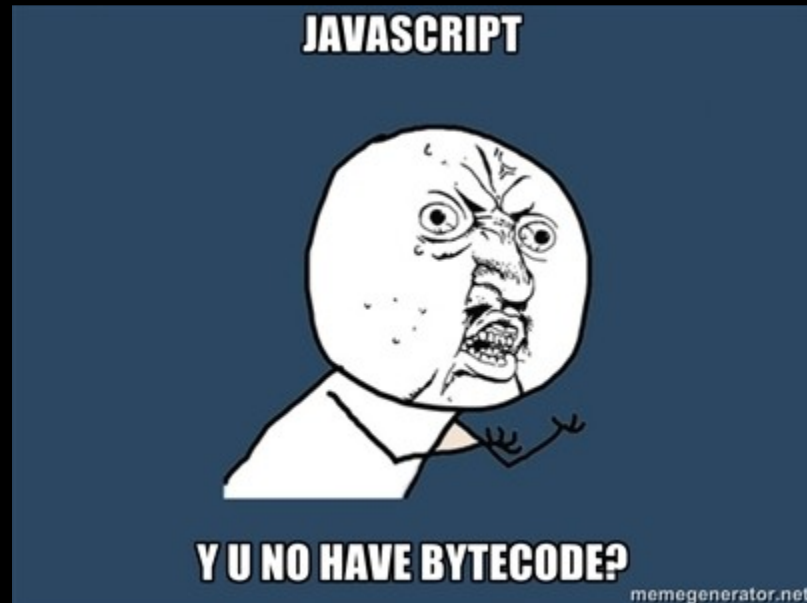


Head Over To FakePlus.com

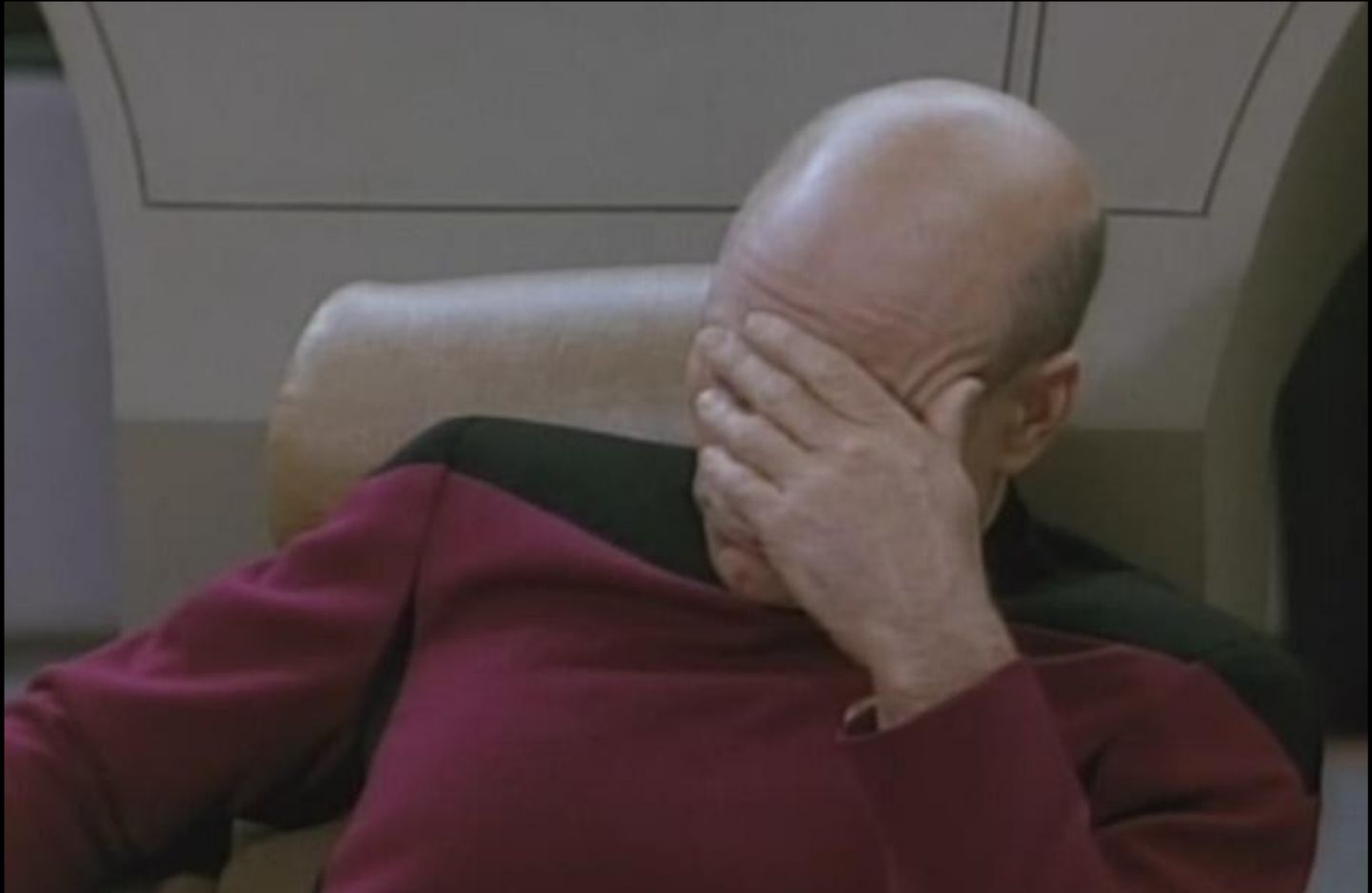
So...

- Compile JS on the fly
- Maintain access to closures
- No restart of app required
- Lazy evaluation
- Generic approach

Compile in JS?



Live coding woohoo



Issues

- function arguments
- closures
- function declarations
- named function expressions
- performance

Direct vs indirect eval

- Call from global
- Call from local / renamed global
- Function
- setInterval and setTimeout

Basically



Open issues

Big:

- Inserting new functions

Minor:

- Variable clashes
- Hard to explain

Code

<http://github.com/qfox/recompiler>

Questions?

