Stak Scheme on WASM

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Overview

- Shibuya.lisp #114

- Rust on WASM

- Stak Scheme on WASM

- Demo

I went to Shibuya.lisp!

- Shibuya.lisp Lisp meetup #114

- A meetup to talk about Lisp

- Common Lisp, Clojure, Scheme, etc.

- I talked about the overview of Stak Scheme and how it works.

Rust on WASM

- wasm-pack
  - A command to deploy a npm package in WASM

- wasm-bindgen
  - A crate to generate bindings from Rust in WASM to JavaScript (TypeScript)

Stak on WASM

- `@raviqqe/stak`
- Exposes a few functions.
  - `compile` : Compiles Scheme source codes into VM bytecodes.
  - `interpret` : Interprets VM bytecodes.
  - `decode` : Decodes bytecodes into their text format.

Demo

Program

```scheme
(import
  (scheme base)
  (scheme read)
  (scheme write))

(display
  (apply string-append
    (apply
      append
      (map
        list
        (map symbol->string (read))
        '(" " "!")))))
```

Compile   Interpret

stdin

```
(hello world)
```

stdout