Carp

A Programming Language for the 21st Century

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Port Zero

July 11, 2019



Obligatory Starter

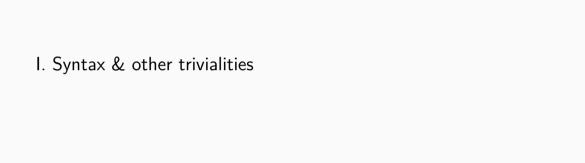
- ► Carp standard library maintainer
- ► CTO @ Port Zero
- ► Secretly a turtle

Questions & Comments

This is a chess-timer talk. You're welcome to ask questions at any time.

I can't promise that I'll be able to answer all of your questions.

I probably won't get through my material.

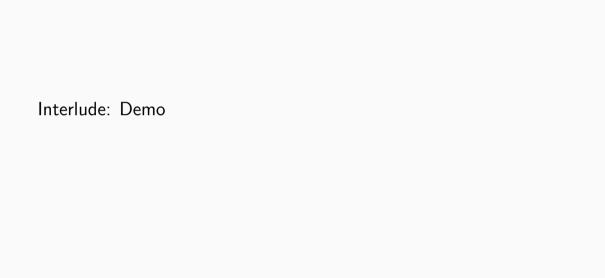


What?

It's a Lisp, despite the parentheses.

Carp code

Carp code

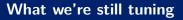


II. Semantics & meaning

The goods

We have (non-hygienic) macros, type inference, and borrow checking.

The emphasis of the design is on simplicity while being pragmatic.



We're working on good autogenerated documentation, dependency management, lifetimes, and, generally, tooling.



There's a vast amount of information flowing through the compiler, most of it implicit.

Reducing cognitive load is useful, but explorability is key.



Caveat

Carp is early stage software.

- ⇒ Small community, few packages
- ⇒ We're less than a handful of maintainers
- ⇒ Insufficient documentation
- ⇒ May change under your feet
- ⇒ May blow up in your face!

Our first stable release—0.3.0—was released!

References

- ► Github: https://github.com/carp-lang/carp
- ► Erik: https://github.com/eriksvedang
- ► Chat: https://gitter.im/carp-lang/carp
- ▶ Docs: http://carp-lang.github.io/Carp/core/core_index.html
- ▶ Blogs: https://blog.veitheller.de (sorry about that)
- ▶ Slides: https://github.com/hellerve/carp_talks
- ► This talk, but different, shorter, and at clojuTRE: https://www.youtube.com/watch?v=BQeG6fXMk28
- ► Carp 0.3.0: https://github.com/carp-lang/Carp/releases/tag/v0.3.0

Epilogue

Thank you!

Questions?

Slides at https://github.com/hellerve/carp_talks